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

17I0540

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet											# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-10-SD-45-1	9/13/17	0950		X	S	U	X													
02	WS-AOC-10-SD-45-2	9/13/17	0951		X	S	U	X													
03	WS-AOC-10-SD-45-3	9/13/17	0952		X	S	U	X													
04	WS-AOC-10-SD-42-1	9/13/17	0953		X	S	U	X													
05	WS-AOC-10-SD-42-2	9/13/17	0954		X	S	U	X													
06	WS-AOC-10-SD-42-3	9/13/17	0955		X	S	U	X													
07	WS-AOC-10-SD-41-1	9/13/17	1003		X	S	U	X													
08	WS-AOC-10-SD-41-2	9/13/17	1004		X	S	U	X													
09	WS-AOC-10-SD-41-3	9/13/17	1005		X	S	U	X													
10	WS-AOC-10-SD-43-1	9/13/17	1007		X	S	U	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 9/13/17 1515
Received by: (signature)	Date/Time: 9/13/17 1515
Relinquished by: (signature)	Date/Time: 9/13/17 1617
Received by: (signature)	Date/Time: 9/13/17 1617
Relinquished by: (signature)	Date/Time: 9/13/17 1830
Received by: (signature)	Date/Time: 9/13/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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17I0540

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs SOXNLET											# of Containers	[2] Preservation Code	[3] Container Code
11	WS-ADC-10-SO-43-2	9/13/17	1005		X	S	U	X											1	I	A
12	WS-ADC-10-SO-43-3	9/13/17	1009		X	S	U	X													
13	WS-ADC-10-SO-25-3	9/13/17	1102		X	S	U	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 9/13/17 1515
Received by: (signature)	Date/Time: 9/13/17 1515
Relinquished by: (signature)	Date/Time: 9/13/17 1617
Received by: (signature) Tom Marc	Date/Time: 9/13/17 1617
Relinquished by: (signature) Tom Marc	Date/Time: 9/13/17 1830
Received by: (signature) 4.1°C	Date/Time: 9/13/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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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 BLF Date 9/13/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1°C
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	13
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: 17I0540

Laboratory Sample ID(s):

17I0540-01 thru 17I0540-13

Sample Date(s):

09/13/2017

List RCP Methods Used:

SW-846 8082A

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **09/25/17**

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

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

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

August 29, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0919

Enclosed are results of analyses for samples received by the laboratory on August 16, 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: 8/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0919

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-10-CO-1	17H0919-01	Product/Solid		SW-846 8082A	
WS-AOC-10-CO-2	17H0919-02	Product/Solid		SW-846 8082A	
WS-AOC-11-CO-1	17H0919-03	Product/Solid		SW-846 8082A	
WS-AOC-11-CO-2	17H0919-04	Product/Solid		SW-846 8082A	
WS-AOC-11-CO-3	17H0919-05	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-26	17H0919-06	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-DUP-10	17H0919-07	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-21	17H0919-08	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-19	17H0919-09	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-24	17H0919-10	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-15	17H0919-11	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-22	17H0919-12	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-17	17H0919-13	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-20	17H0919-14	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-14	17H0919-15	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-19	17H0919-16	Product/Solid		SW-846 8082A	
EB-42	17H0919-17	Equipment Blank Water		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.

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H0919-06[WS-AOC-9-AS-26], 17H0919-07[WS-AOC-9-AS-DUP-10], 17H0919-09[WS-AOC-9-AS-19], 17H0919-10[WS-AOC-9-AS-24], 17H0919-11[WS-AOC-9-AS-15], 17H0919-12[WS-AOC-9-AS-22], 17H0919-13[WS-AOC-9-AS-17], 17H0919-14[WS-AOC-9-AS-20], 17H0919-15[WS-AOC-9-AS-14], 17H0919-16[WS-AOC-9-AS-19]

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: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-10-CO-1 Sampled: 8/16/2017 09:25

Sample ID: 17H0919-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1260 [2]	0.16	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL
Aroclor-1268 [2]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.4	30-150		8/28/17 14:38
Decachlorobiphenyl [2]	84.5	30-150		8/28/17 14:38
Tetrachloro-m-xylene [1]	81.6	30-150		8/28/17 14:38
Tetrachloro-m-xylene [2]	75.2	30-150		8/28/17 14:38

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: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-10-CO-2 Sampled: 8/16/2017 09:30

Sample ID: 17H0919-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL
Aroclor-1268 [2]	ND	0.096	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 14:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.2	30-150		8/28/17 14:51
Decachlorobiphenyl [2]	86.1	30-150		8/28/17 14:51
Tetrachloro-m-xylene [1]	82.0	30-150		8/28/17 14:51
Tetrachloro-m-xylene [2]	74.0	30-150		8/28/17 14:51

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: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-11-CO-1 Sampled: 8/16/2017 10:05

Sample ID: 17H0919-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL
Aroclor-1268 [2]	ND	0.093	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/28/17 15:04
Decachlorobiphenyl [2]	95.9	30-150		8/28/17 15:04
Tetrachloro-m-xylene [1]	94.0	30-150		8/28/17 15:04
Tetrachloro-m-xylene [2]	89.0	30-150		8/28/17 15:04

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: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-11-CO-2 Sampled: 8/16/2017 10:10

Sample ID: 17H0919-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL
Aroclor-1268 [2]	ND	0.098	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/28/17 15:16
Decachlorobiphenyl [2]	88.7	30-150		8/28/17 15:16
Tetrachloro-m-xylene [1]	91.5	30-150		8/28/17 15:16
Tetrachloro-m-xylene [2]	85.7	30-150		8/28/17 15:16

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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: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-11-CO-3 Sampled: 8/16/2017 10:15

Sample ID: 17H0919-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1221 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1232 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1242 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1248 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1254 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1260 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1262 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL
Aroclor-1268 [2]	ND	0.071	mg/Kg	1		SW-846 8082A	8/23/17	8/28/17 15:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	112	30-150		8/28/17 15:29
Decachlorobiphenyl [2]	98.6	30-150		8/28/17 15:29
Tetrachloro-m-xylene [1]	95.7	30-150		8/28/17 15:29
Tetrachloro-m-xylene [2]	90.9	30-150		8/28/17 15:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-26 Sampled: 8/16/2017 12:00

Sample ID: 17H0919-06

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1221 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1232 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1242 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1248 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1254 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1260 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1262 [1]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL
Aroclor-1268 [2]	ND	0.94	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 15:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.5	30-150		8/28/17 15:42
Decachlorobiphenyl [2]	91.0	30-150		8/28/17 15:42
Tetrachloro-m-xylene [1]	99.2	30-150		8/28/17 15:42
Tetrachloro-m-xylene [2]	101	30-150		8/28/17 15:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-DUP-10 Sampled: 8/16/2017 00:00

Sample ID: 17H0919-07

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1221 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1232 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1242 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1248 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1254 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1260 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1262 [1]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL
Aroclor-1268 [2]	ND	0.85	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 16:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		8/28/17 16:57
Decachlorobiphenyl [2]	76.9	30-150		8/28/17 16:57
Tetrachloro-m-xylene [1]	96.1	30-150		8/28/17 16:57
Tetrachloro-m-xylene [2]	98.7	30-150		8/28/17 16:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-21 Sampled: 8/16/2017 12:15

Sample ID: 17H0919-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1254 [1]	3.0	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL
Aroclor-1268 [2]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		8/28/17 17:10
Decachlorobiphenyl [2]	77.9	30-150		8/28/17 17:10
Tetrachloro-m-xylene [1]	106	30-150		8/28/17 17:10
Tetrachloro-m-xylene [2]	110	30-150		8/28/17 17:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-19 Sampled: 8/16/2017 12:25

Sample ID: 17H0919-09

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL
Aroclor-1268 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.7	30-150		8/28/17 17:23
Decachlorobiphenyl [2]	69.1	30-150		8/28/17 17:23
Tetrachloro-m-xylene [1]	96.0	30-150		8/28/17 17:23
Tetrachloro-m-xylene [2]	99.5	30-150		8/28/17 17:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-24 Sampled: 8/16/2017 12:30

Sample ID: 17H0919-10

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1221 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1232 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1242 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1248 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1254 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1260 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1262 [1]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL
Aroclor-1268 [2]	ND	0.86	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		8/28/17 17:35
Decachlorobiphenyl [2]	67.0	30-150		8/28/17 17:35
Tetrachloro-m-xylene [1]	95.2	30-150		8/28/17 17:35
Tetrachloro-m-xylene [2]	98.0	30-150		8/28/17 17:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-15 Sampled: 8/16/2017 12:35

Sample ID: 17H0919-11

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL
Aroclor-1268 [2]	ND	0.97	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 17:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.9	30-150		8/28/17 17:48
Decachlorobiphenyl [2]	70.5	30-150		8/28/17 17:48
Tetrachloro-m-xylene [1]	102	30-150		8/28/17 17:48
Tetrachloro-m-xylene [2]	106	30-150		8/28/17 17:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-22 Sampled: 8/16/2017 12:40

Sample ID: 17H0919-12

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1221 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1232 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1242 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1248 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1254 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1260 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1262 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL
Aroclor-1268 [2]	ND	0.91	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		8/28/17 18:01
Decachlorobiphenyl [2]	68.0	30-150		8/28/17 18:01
Tetrachloro-m-xylene [1]	100	30-150		8/28/17 18:01
Tetrachloro-m-xylene [2]	102	30-150		8/28/17 18:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-17 Sampled: 8/16/2017 12:45

Sample ID: 17H0919-13

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL
Aroclor-1268 [2]	ND	0.96	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.1	30-150		8/28/17 18:13
Decachlorobiphenyl [2]	66.3	30-150		8/28/17 18:13
Tetrachloro-m-xylene [1]	99.2	30-150		8/28/17 18:13
Tetrachloro-m-xylene [2]	104	30-150		8/28/17 18:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-20 Sampled: 8/16/2017 12:50

Sample ID: 17H0919-14

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL
Aroclor-1268 [2]	ND	0.99	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.5	30-150		8/28/17 18:26
Decachlorobiphenyl [2]	62.0	30-150		8/28/17 18:26
Tetrachloro-m-xylene [1]	91.9	30-150		8/28/17 18:26
Tetrachloro-m-xylene [2]	97.2	30-150		8/28/17 18:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-14 Sampled: 8/16/2017 12:55

Sample ID: 17H0919-15

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1221 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1232 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1242 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1248 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1254 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1260 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1262 [1]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL
Aroclor-1268 [2]	ND	0.88	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		8/28/17 18:38
Decachlorobiphenyl [2]	64.7	30-150		8/28/17 18:38
Tetrachloro-m-xylene [1]	98.0	30-150		8/28/17 18:38
Tetrachloro-m-xylene [2]	103	30-150		8/28/17 18:38

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: 17H0919

Date Received: 8/16/2017

Field Sample #: WS-AOC-9-AS-19 Sampled: 8/16/2017 13:00

Sample ID: 17H0919-16

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1221 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1232 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1242 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1248 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1254 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1260 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1262 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL
Aroclor-1268 [2]	ND	0.87	mg/Kg	10		SW-846 8082A	8/23/17	8/28/17 18:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		8/28/17 18:51
Decachlorobiphenyl [2]	62.8	30-150		8/28/17 18:51
Tetrachloro-m-xylene [1]	99.1	30-150		8/28/17 18:51
Tetrachloro-m-xylene [2]	104	30-150		8/28/17 18:51

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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: 17H0919

Date Received: 8/16/2017

Field Sample #: EB-42 Sampled: 8/16/2017 12:25

Sample ID: 17H0919-17

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/23/17	8/25/17 14:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		8/25/17 14:45
Decachlorobiphenyl [2]	85.8	30-150		8/25/17 14:45
Tetrachloro-m-xylene [1]	89.7	30-150		8/25/17 14:45
Tetrachloro-m-xylene [2]	93.7	30-150		8/25/17 14:45

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0919-01 [WS-AOC-10-CO-1]	B184700	2.16	10.0	08/23/17
17H0919-02 [WS-AOC-10-CO-2]	B184700	2.09	10.0	08/23/17
17H0919-03 [WS-AOC-11-CO-1]	B184700	2.16	10.0	08/23/17
17H0919-04 [WS-AOC-11-CO-2]	B184700	2.04	10.0	08/23/17
17H0919-05 [WS-AOC-11-CO-3]	B184700	2.80	10.0	08/23/17
17H0919-06 [WS-AOC-9-AS-26]	B184700	2.13	10.0	08/23/17
17H0919-07 [WS-AOC-9-AS-DUP-10]	B184700	2.34	10.0	08/23/17
17H0919-08 [WS-AOC-9-AS-21]	B184700	2.08	10.0	08/23/17
17H0919-09 [WS-AOC-9-AS-19]	B184700	2.05	10.0	08/23/17
17H0919-10 [WS-AOC-9-AS-24]	B184700	2.33	10.0	08/23/17
17H0919-11 [WS-AOC-9-AS-15]	B184700	2.07	10.0	08/23/17
17H0919-12 [WS-AOC-9-AS-22]	B184700	2.19	10.0	08/23/17
17H0919-13 [WS-AOC-9-AS-17]	B184700	2.08	10.0	08/23/17
17H0919-14 [WS-AOC-9-AS-20]	B184700	2.02	10.0	08/23/17
17H0919-15 [WS-AOC-9-AS-14]	B184700	2.27	10.0	08/23/17
17H0919-16 [WS-AOC-9-AS-19]	B184700	2.30	10.0	08/23/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0919-17 [EB-42]	B184759	1000	10.0	08/23/17

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184759 - SW-846 3510C										
Blank (B184759-BLK1)				Prepared: 08/23/17 Analyzed: 08/25/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.72*		µg/L	2.00		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.91*		µg/L	2.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.79*		µg/L	2.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.85*		µg/L	2.00		92.6	30-150			
LCS (B184759-BS1)				Prepared: 08/23/17 Analyzed: 08/25/17						
Aroclor-1016	0.48	0.20	µg/L	0.500		96.8	40-140			
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		82.9	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.6	40-140			
Surrogate: Decachlorobiphenyl	*1.80*		µg/L	2.00		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.00*		µg/L	2.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.81*		µg/L	2.00		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.88*		µg/L	2.00		94.1	30-150			
LCS Dup (B184759-BSD1)				Prepared: 08/23/17 Analyzed: 08/25/17						
Aroclor-1016	0.49	0.20	µg/L	0.500		98.1	40-140	1.31	20	
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		106	40-140	3.88	20	
Aroclor-1260	0.41	0.20	µg/L	0.500		82.7	40-140	0.196	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.3	40-140	0.344	20	
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.91*		µg/L	2.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.76*		µg/L	2.00		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.84*		µg/L	2.00		91.8	30-150			

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184700 - SW-846 3540C										
Blank (B184700-BLK1)				Prepared: 08/23/17 Analyzed: 08/28/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.978*		mg/Kg	1.00		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.874*		mg/Kg	1.00		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.819*		mg/Kg	1.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.767*		mg/Kg	1.00		76.7	30-150			
LCS (B184700-BS1)				Prepared: 08/23/17 Analyzed: 08/28/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.6	40-140			
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.4	40-140			
Aroclor-1260	0.88	0.10	mg/Kg	1.00		87.5	40-140			
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		78.8	40-140			
Surrogate: Decachlorobiphenyl	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.865*		mg/Kg	1.00		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.819*		mg/Kg	1.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.761*		mg/Kg	1.00		76.1	30-150			
LCS Dup (B184700-BSD1)				Prepared: 08/23/17 Analyzed: 08/28/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.8	40-140	1.28	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		90.5	40-140	0.144	30	
Aroclor-1260	0.87	0.10	mg/Kg	1.00		87.2	40-140	0.370	30	
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		78.8	40-140	0.00127	30	
Surrogate: Decachlorobiphenyl	*0.986*		mg/Kg	1.00		98.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.872*		mg/Kg	1.00		87.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.850*		mg/Kg	1.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.802*		mg/Kg	1.00		80.2	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 B184700 - SW-846 3540C										
Matrix Spike (B184700-MS1)		**Source: 17H0919-06**		Prepared: 08/23/17 Analyzed: 08/28/17						
Aroclor-1016	0.99	0.84	mg/Kg	0.837	ND	118	40-140			
Aroclor-1016 [2C]	0.99	0.84	mg/Kg	0.837	ND	118	40-140			
Aroclor-1260	0.93	0.84	mg/Kg	0.837	ND	112	40-140			
Aroclor-1260 [2C]	0.92	0.84	mg/Kg	0.837	ND	110	40-140			
Surrogate: Decachlorobiphenyl	*0.703*		mg/Kg	0.837		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.632*		mg/Kg	0.837		75.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.832*		mg/Kg	0.837		99.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.825*		mg/Kg	0.837		98.6	30-150			
Matrix Spike Dup (B184700-MSD1)		**Source: 17H0919-06**		Prepared: 08/23/17 Analyzed: 08/28/17						
Aroclor-1016	1.1	0.98	mg/Kg	0.976	ND	112	40-140	10.7	50	
Aroclor-1016 [2C]	1.1	0.98	mg/Kg	0.976	ND	113	40-140	10.8	50	
Aroclor-1260	0.96	0.98	mg/Kg	0.976	ND	98.4	40-140	2.84	50	
Aroclor-1260 [2C]	0.96	0.98	mg/Kg	0.976	ND	98.0	40-140	3.97	50	
Surrogate: Decachlorobiphenyl	*0.779*		mg/Kg	0.976		79.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.686*		mg/Kg	0.976		70.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.874*		mg/Kg	0.976		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.917*		mg/Kg	0.976		94.0	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-10-CO-1

Lab Sample ID: 17H0919-01

Date(s) Analyzed: 08/28/2017 08/28/2017

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-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.16	0.0

con-test® ANALYTICAL LABORATORY

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-AS-21

Lab Sample ID: 17H0919-08

Date(s) Analyzed: 08/28/2017 08/28/2017

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-1254	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	2.6	14.3

con-test® ANALYTICAL LABORATORY

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B184700-BS1

Date(s) Analyzed: 08/28/2017 08/28/2017

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	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.90	1.1
Aroclor-1260	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.79	10.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B184700-BSD1 Date(s) Analyzed: 08/28/2017 08/28/2017

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	0.000	0.000	0.92	
	2	0.000	0.000	0.000	0.91	1.1
Aroclor-1260	1	0.000	0.000	0.000	0.87	
	2	0.000	0.000	0.000	0.79	9.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B184700-MS1 Date(s) Analyzed: 08/28/2017 08/28/2017

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	0.000	0.000	0.99	
	2	0.000	0.000	0.000	0.99	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.93	
	2	0.000	0.000	0.000	0.92	1.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B184700-MSD1 Date(s) Analyzed: 08/28/2017 08/28/2017

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	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.96	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B184759-BS1

Date(s) Analyzed: 08/25/2017 08/25/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.51	6.1
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.45	9.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B184759-BSD1 Date(s) Analyzed: 08/25/2017 08/25/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.53	7.8
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.45	9.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA

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

17H0919

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Doc # 381 Rev 1_03242017

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: Weston & Sampson
Address: 273 Dividend Rd Rocky Hill, CT
Phone: 860-SAMPSON
Project Name: English Station
Project Location: 510 Grand Ave New Haven, CT
Project Number: 0170495
Project Manager: Malcolm Becks
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: Becks@mwseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC-10-CO-1	8/16/17	~~1005~~ TPS	0925	X	O	U	X			
2	WS-AOC-10-CO-2		~~1010~~ TPS	0930							
3	WS-AOC-11-CO-1		~~1015~~ TPS	1005							
4	WS-AOC-11-CO-2			1010							
5	WS-AOC-11-CO-3			1015							
6	WS-AOC-9-AS-26			1200							
7	WS-AOC-9-AS-DUP-10			—							
8	WS-AOC-9-AS-21		1215								
9	WS-AOC-9-AS-19		1205								
10	WS-AOC-9-AS-24		1230								

Comments:
WS-AOC-9-AS-26 is 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

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
SL = Sludge
SOL = Solid
O = Other (please define) Porous media

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

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

Relinquished by: (signature)	Date/Time:
[signature]	8/16/17 1515
Received by: (signature) Tom Muir	Date/Time: 8/16/17 1515
Relinquished by: (signature) Tom Muir	Date/Time: 8/16/17 1900
Received by: (signature) S.G.	Date/Time: 8/16/17 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT DEC
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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17H0919

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Doc # 381 Rev 1_03242017

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston & Sampson.
Address: 273 Dividend Rd Rocky Hill, CT
Phone: 800-SAMPSON
Project Name: English Station
Project Location: 510 Grand Ave New Haven, CT
Project Number: 2170495.
Project Manager: Malcolm Becker.
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: Becker@weston.com
Fax To #:

ANALYSIS REQUESTED

PCBs

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC-9-AS-15	8/16/17	1235		X	O	U	X			
12	WS-AOC-9-AS-22	↓	1240		↓	↓	↓	↓			
13	WS-AOC-9-AS-17		1245								
14	WS-AOC-9-AS-20		1250								
15	WS-AOC-9-AS-14		1255								
16	WS-AOC-9-AS-19		1300								
17	EB-412	↓	1275.		↓	↓	↓	↓			

Comments:

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
SL = Sludge
SOL = Solid
O = Other (please define) Porous media

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

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

	Date/Time
Relinquished by: (signature)	8/16/17 1515
Received by: (signature) Tom Mau	8/16/17 1515
Relinquished by: (signature) Tom Mau	8/16/17 1900
Received by: (signature)	8/16/17 1900
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT DEP
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 5/16/17 Time 1900

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 - 5.6
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? ~~N/A~~ T (JM)
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.	2	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	18
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: 17H0919

Laboratory Sample ID(s):

17H0919-01 thru 17H0919-17

Sample Date(s):

08/16/2017

List RCP Methods Used:

SW-846 8082A

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

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

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

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

Printed Name: **Tod E. Kopyscinski** **Date:** **08/29/17**

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

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

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

August 10, 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: 17G1170

Enclosed are results of analyses for samples received by the laboratory on July 26, 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: 8/10/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1170

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-AOC13-SO-4-1	17G1170-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-4-2	17G1170-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-4-3	17G1170-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-5-1A	17G1170-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-5-1B	17G1170-05	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-5-2	17G1170-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-5-3	17G1170-07	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC13-SO-1-1A	17G1170-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-1-2	17G1170-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-1-3	17G1170-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-9-1	17G1170-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-9-2	17G1170-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-9-3A	17G1170-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-9-3B	17G1170-14	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-1-1B	17G1170-15	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-10-1	17G1170-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-10-2	17G1170-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-10-3A	17G1170-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-10-3B	17G1170-19	Soil		SM 2540G	
				SW-846 8260C	

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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.

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SW-846 6010C-D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Zinc

17G1170-05[WS-AOC13-SO-5-1B], 17G1170-15[WS-AOC13-SO-1-1B], B182941-BS1, B182941-BSD1

SW-846 8260C

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Naphthalene

17G1170-19[WS-AOC13-SO-10-3B]

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:

1,2-Dibromo-3-chloropropane (DB

17G1170-19RE1[WS-AOC13-SO-10-3B], B183244-BLK1, B183244-BS1

Naphthalene

17G1170-19RE1[WS-AOC13-SO-10-3B], B183244-BLK1, B183244-BS1

V-34

Initial calibration verification (ICV) 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:

Bromomethane

17G1170-19[WS-AOC13-SO-10-3B], 17G1170-19RE1[WS-AOC13-SO-10-3B], B182770-BLK1, B182770-BS1, B183244-BLK1, B183244-BS1

Chloromethane

17G1170-19[WS-AOC13-SO-10-3B], 17G1170-19RE1[WS-AOC13-SO-10-3B], B182770-BLK1, B182770-BS1, B183244-BLK1, B183244-BS1

Dichlorodifluoromethane (Freon 1

17G1170-19[WS-AOC13-SO-10-3B], 17G1170-19RE1[WS-AOC13-SO-10-3B], B182770-BLK1, B182770-BS1, B183244-BLK1, B183244-BS1

Vinyl Chloride

17G1170-19[WS-AOC13-SO-10-3B], 17G1170-19RE1[WS-AOC13-SO-10-3B], B182770-BLK1, B182770-BS1, B183244-BLK1, B183244-BS1

SW-846 8270D

Qualifications:

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E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Anthracene
17G1170-07RE1[WS-AOC13-SO-5-3]

Benzo(a)anthracene
17G1170-07RE1[WS-AOC13-SO-5-3]

Benzo(a)pyrene
17G1170-07RE1[WS-AOC13-SO-5-3]

Benzo(b)fluoranthene
17G1170-07RE1[WS-AOC13-SO-5-3]

Benzo(g,h,i)perylene
17G1170-07RE1[WS-AOC13-SO-5-3]

Chrysene
17G1170-07RE1[WS-AOC13-SO-5-3]

Fluoranthene
17G1170-07RE1[WS-AOC13-SO-5-3], 17G1170-14[WS-AOC13-SO-9-3B]

Fluorene
17G1170-07RE1[WS-AOC13-SO-5-3]

Indeno(1,2,3-cd)pyrene
17G1170-07RE1[WS-AOC13-SO-5-3]

Phenanthrene
17G1170-07RE1[WS-AOC13-SO-5-3]

Pyrene
17G1170-07RE1[WS-AOC13-SO-5-3], 17G1170-14[WS-AOC13-SO-9-3B]

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline
17G1170-07RE1[WS-AOC13-SO-5-3], 17G1170-14[WS-AOC13-SO-9-3B], 17G1170-14RE1[WS-AOC13-SO-9-3B], B183204-BLK1, B183204-BS1, B183204-BSD1, B183542-BLK1, B183542-BS1, B183542-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B183204-BSD1

Aniline
B183204-BSD1

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:

2,4,6-Tribromophenol
17G1170-07RE3[WS-AOC13-SO-5-3]

2-Fluorobiphenyl
17G1170-07RE3[WS-AOC13-SO-5-3]

2-Fluorophenol
17G1170-07RE3[WS-AOC13-SO-5-3]

Nitrobenzene-d5
17G1170-07RE3[WS-AOC13-SO-5-3]

Phenol-d6
17G1170-07RE3[WS-AOC13-SO-5-3]

p-Terphenyl-d14
17G1170-07RE3[WS-AOC13-SO-5-3]

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S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2-Fluorophenol
17G1170-14RE1[WS-AOC13-SO-9-3B]

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:

Aniline
17G1170-07RE2[WS-AOC13-SO-5-3]

Hexachlorocyclopentadiene
17G1170-07RE1[WS-AOC13-SO-5-3], 17G1170-07RE2[WS-AOC13-SO-5-3], B183542-BLK1, B183542-BS1, B183542-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
17G1170-07RE1[WS-AOC13-SO-5-3], 17G1170-07RE2[WS-AOC13-SO-5-3], 17G1170-14[WS-AOC13-SO-9-3B], 17G1170-14RE1[WS-AOC13-SO-9-3B], B183204-BLK1, B183204-BS1, B183204-BSD1, B183542-BLK1, B183542-BS1, B183542-BSD1

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

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

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-4-1 Sampled: 7/26/2017 10:40

Sample ID: 17G1170-01

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	8/3/17	8/4/17 20:35	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/4/17 20:35
Decachlorobiphenyl [2]	107	30-150		8/4/17 20:35
Tetrachloro-m-xylene [1]	101	30-150		8/4/17 20:35
Tetrachloro-m-xylene [2]	105	30-150		8/4/17 20:35

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-4-1 Sampled: 7/26/2017 10:40

Sample ID: 17G1170-01

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	96.3		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-4-2 Sampled: 7/26/2017 10:44

Sample ID: 17G1170-02

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	8/3/17	8/4/17 20:53	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.0	30-150		8/4/17 20:53
Decachlorobiphenyl [2]	96.1	30-150		8/4/17 20:53
Tetrachloro-m-xylene [1]	92.7	30-150		8/4/17 20:53
Tetrachloro-m-xylene [2]	95.9	30-150		8/4/17 20:53

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-4-2 Sampled: 7/26/2017 10:44

Sample ID: 17G1170-02

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	90.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-4-3 Sampled: 7/26/2017 10:46

Sample ID: 17G1170-03

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	8/3/17	8/4/17 21:10	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.1	30-150		8/4/17 21:10
Decachlorobiphenyl [2]	73.6	30-150		8/4/17 21:10
Tetrachloro-m-xylene [1]	76.8	30-150		8/4/17 21:10
Tetrachloro-m-xylene [2]	79.2	30-150		8/4/17 21:10

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-4-3 Sampled: 7/26/2017 10:46

Sample ID: 17G1170-03

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	82.3		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-1A Sampled: 7/26/2017 10:30

Sample ID: 17G1170-04

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	8/3/17	8/4/17 21:28	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1260 [2]	0.18	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.4	30-150		8/4/17 21:28
Decachlorobiphenyl [2]	86.2	30-150		8/4/17 21:28
Tetrachloro-m-xylene [1]	92.8	30-150		8/4/17 21:28
Tetrachloro-m-xylene [2]	95.2	30-150		8/4/17 21:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-1A Sampled: 7/26/2017 10:30

Sample ID: 17G1170-04

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	92.4		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-1B Sampled: 7/26/2017 10:32

Sample ID: 17G1170-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Arsenic	8.7	2.7	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Barium	35	2.7	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Beryllium	ND	0.27	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Chromium	24	0.54	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Copper	100	0.54	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Lead	26	0.81	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Mercury	0.028	0.028	mg/Kg dry	1		SW-846 7471B	7/31/17	8/1/17 11:19	TJK
Nickel	26	0.54	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Vanadium	20	1.1	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:55	QNW
Zinc	41	1.1	mg/Kg dry	1	B	SW-846 6010C-D	7/31/17	8/1/17 17:55	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-1B Sampled: 7/26/2017 10:32

Sample ID: 17G1170-05

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	86.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-2 Sampled: 7/26/2017 10:34

Sample ID: 17G1170-06

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	8/3/17	8/4/17 21:46	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		8/4/17 21:46
Decachlorobiphenyl [2]	87.6	30-150		8/4/17 21:46
Tetrachloro-m-xylene [1]	90.0	30-150		8/4/17 21:46
Tetrachloro-m-xylene [2]	93.1	30-150		8/4/17 21:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-2 Sampled: 7/26/2017 10:34

Sample ID: 17G1170-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-3 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.6	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Acenaphthene	2.3	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Acenaphthylene	6.1	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Acenaphthylene	5.0	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Aniline	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Aniline	ND	3.4	mg/Kg dry	4	V-05	SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Anthracene	15	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Anthracene	12	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Benzo(a)anthracene	25	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Benzo(a)anthracene	21	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Benzo(a)pyrene	23	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Benzo(a)pyrene	17	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Benzo(b)fluoranthene	25	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Benzo(b)fluoranthene	19	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Benzo(g,h,i)perylene	17	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Benzo(g,h,i)perylene	15	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Benzo(k)fluoranthene	8.8	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Benzo(k)fluoranthene	7.8	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Bis(2-chloroethoxy)methane	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Bis(2-chloroethoxy)methane	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Bis(2-chloroethyl)ether	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Bis(2-chloroethyl)ether	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Bis(2-chloroisopropyl)ether	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4-Bromophenylphenylether	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4-Bromophenylphenylether	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Butylbenzylphthalate	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Butylbenzylphthalate	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Carbazole	3.1	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Carbazole	2.7	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	1	L-04	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4-Chloroaniline	ND	6.6	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4-Chloro-3-methylphenol	ND	6.6	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2-Chloronaphthalene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2-Chloronaphthalene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2-Chlorophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2-Chlorophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4-Chlorophenylphenylether	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4-Chlorophenylphenylether	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Chrysene	22	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Chrysene	19	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-3 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	3.7	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Dibenz(a,h)anthracene	3.3	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Dibenzofuran	9.4	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Dibenzofuran	7.4	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Di-n-butylphthalate	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Di-n-butylphthalate	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
3,3-Dichlorobenzidine	ND	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
3,3-Dichlorobenzidine	ND	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,4-Dichlorophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,4-Dichlorophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Diethylphthalate	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Diethylphthalate	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,4-Dimethylphenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,4-Dimethylphenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Dimethylphthalate	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Dimethylphthalate	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4,6-Dinitro-2-methylphenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4,6-Dinitro-2-methylphenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,4-Dinitrophenol	ND	6.6	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,4-Dinitrotoluene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,4-Dinitrotoluene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,6-Dinitrotoluene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,6-Dinitrotoluene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Di-n-octylphthalate	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Di-n-octylphthalate	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Fluoranthene	56	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Fluoranthene	47	6.8	mg/Kg dry	16		SW-846 8270D	8/7/17	8/8/17 23:57	BGL
Fluorene	10	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Fluorene	8.1	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Hexachlorobenzene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Hexachlorobenzene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Hexachlorobutadiene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Hexachlorobutadiene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Hexachlorocyclopentadiene	ND	0.85	mg/Kg dry	1	V-05	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Hexachlorocyclopentadiene	ND	3.4	mg/Kg dry	4	V-05	SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Hexachloroethane	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Hexachloroethane	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Indeno(1,2,3-cd)pyrene	17	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Indeno(1,2,3-cd)pyrene	14	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Isophorone	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Isophorone	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2-Methylnaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2-Methylnaphthalene	ND	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-3 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2-Methylphenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
3/4-Methylphenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
3/4-Methylphenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Naphthalene	1.8	0.43	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Naphthalene	ND	1.7	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2-Nitroaniline	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2-Nitroaniline	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
3-Nitroaniline	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
3-Nitroaniline	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4-Nitroaniline	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4-Nitroaniline	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Nitrobenzene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Nitrobenzene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2-Nitrophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2-Nitrophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
4-Nitrophenol	ND	6.6	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
N-Nitrosodiphenylamine	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
N-Nitrosodiphenylamine	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
N-Nitrosodi-n-propylamine	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
N-Nitrosodi-n-propylamine	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Pentachloronitrobenzene	ND	0.85	mg/Kg dry	1	V-16	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Pentachloronitrobenzene	ND	3.4	mg/Kg dry	4	V-16	SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Pentachlorophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Pentachlorophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Phenanthrene	50	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Phenanthrene	53	6.8	mg/Kg dry	16		SW-846 8270D	8/7/17	8/8/17 23:57	BGL
Phenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Phenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
Pyrene	74	0.43	mg/Kg dry	1	E	SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Pyrene	42	6.8	mg/Kg dry	16		SW-846 8270D	8/7/17	8/8/17 23:57	BGL
Pyridine	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
Pyridine	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
1,2,4,5-Tetrachlorobenzene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
1,2,4-Trichlorobenzene	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
1,2,4-Trichlorobenzene	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,4,5-Trichlorophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,4,5-Trichlorophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL
2,4,6-Trichlorophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	8/7/17	8/8/17 13:25	BGL
2,4,6-Trichlorophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D	8/7/17	8/8/17 23:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.2	30-130		8/8/17 13:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-3 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		*	30-130		S-01			8/8/17 23:57	
2-Fluorophenol		44.1	30-130					8/8/17 23:34	
Phenol-d6		57.7	30-130					8/8/17 13:25	
Phenol-d6		*	30-130		S-01			8/8/17 23:57	
Phenol-d6		45.9	30-130					8/8/17 23:34	
Nitrobenzene-d5		67.9	30-130					8/8/17 13:25	
Nitrobenzene-d5		*	30-130		S-01			8/8/17 23:57	
Nitrobenzene-d5		56.0	30-130					8/8/17 23:34	
2-Fluorobiphenyl		71.8	30-130					8/8/17 13:25	
2-Fluorobiphenyl		*	30-130		S-01			8/8/17 23:57	
2-Fluorobiphenyl		62.2	30-130					8/8/17 23:34	
2,4,6-Tribromophenol		86.5	30-130					8/8/17 13:25	
2,4,6-Tribromophenol		*	30-130		S-01			8/8/17 23:57	
2,4,6-Tribromophenol		62.4	30-130					8/8/17 23:34	
p-Terphenyl-d14		107	30-130					8/8/17 13:25	
p-Terphenyl-d14		*	30-130		S-01			8/8/17 23:57	
p-Terphenyl-d14		76.0	30-130					8/8/17 23:34	

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-3 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-07

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	8/3/17	8/4/17 22:03	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.5	30-150		8/4/17 22:03
Decachlorobiphenyl [2]	66.3	30-150		8/4/17 22:03
Tetrachloro-m-xylene [1]	63.4	30-150		8/4/17 22:03
Tetrachloro-m-xylene [2]	66.4	30-150		8/4/17 22:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-5-3 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-07

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	79.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-1A Sampled: 7/26/2017 10:50

Sample ID: 17G1170-08

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	8/3/17	8/4/17 22:21	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.3	30-150		8/4/17 22:21
Decachlorobiphenyl [2]	57.3	30-150		8/4/17 22:21
Tetrachloro-m-xylene [1]	60.1	30-150		8/4/17 22:21
Tetrachloro-m-xylene [2]	61.9	30-150		8/4/17 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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-1A Sampled: 7/26/2017 10:50

Sample ID: 17G1170-08

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	92.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-2 Sampled: 7/26/2017 10:52

Sample ID: 17G1170-09

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	8/3/17	8/4/17 22:39	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		8/4/17 22:39
Decachlorobiphenyl [2]	95.7	30-150		8/4/17 22:39
Tetrachloro-m-xylene [1]	95.7	30-150		8/4/17 22:39
Tetrachloro-m-xylene [2]	98.7	30-150		8/4/17 22:39

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-2 Sampled: 7/26/2017 10:52

Sample ID: 17G1170-09

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	84.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-3 Sampled: 7/26/2017 10:54

Sample ID: 17G1170-10

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	8/3/17	8/4/17 22:57	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		8/4/17 22:57
Decachlorobiphenyl [2]	88.4	30-150		8/4/17 22:57
Tetrachloro-m-xylene [1]	92.2	30-150		8/4/17 22:57
Tetrachloro-m-xylene [2]	95.3	30-150		8/4/17 22:57

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-3 Sampled: 7/26/2017 10:54

Sample ID: 17G1170-10

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	80.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-1 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-11

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	8/3/17	8/5/17 0:55	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 0:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		8/5/17 0:55
Decachlorobiphenyl [2]	97.8	30-150		8/5/17 0:55
Tetrachloro-m-xylene [1]	101	30-150		8/5/17 0:55
Tetrachloro-m-xylene [2]	103	30-150		8/5/17 0:55

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-1 Sampled: 7/26/2017 10:36

Sample ID: 17G1170-11

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	80.1		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-2 Sampled: 7/26/2017 10:37

Sample ID: 17G1170-12

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	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		8/5/17 1:13
Decachlorobiphenyl [2]	96.9	30-150		8/5/17 1:13
Tetrachloro-m-xylene [1]	99.8	30-150		8/5/17 1:13
Tetrachloro-m-xylene [2]	103	30-150		8/5/17 1:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-2 Sampled: 7/26/2017 10:37

Sample ID: 17G1170-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3A Sampled: 7/26/2017 10:38

Sample ID: 17G1170-13

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	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		8/5/17 1:30
Decachlorobiphenyl [2]	94.3	30-150		8/5/17 1:30
Tetrachloro-m-xylene [1]	93.3	30-150		8/5/17 1:30
Tetrachloro-m-xylene [2]	99.1	30-150		8/5/17 1:30

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3A Sampled: 7/26/2017 10:38

Sample ID: 17G1170-13

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	79.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3B Sampled: 7/26/2017 10:39

Sample ID: 17G1170-14

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	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Acenaphthene	ND	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Acenaphthylene	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Acenaphthylene	0.59	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Aniline	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Aniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Anthracene	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Anthracene	0.86	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Benzo(a)anthracene	6.8	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Benzo(a)anthracene	8.0	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Benzo(a)pyrene	6.6	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Benzo(a)pyrene	8.0	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Benzo(b)fluoranthene	7.2	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Benzo(b)fluoranthene	8.3	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Benzo(g,h,i)perylene	4.5	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Benzo(g,h,i)perylene	5.6	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Benzo(k)fluoranthene	2.5	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Benzo(k)fluoranthene	2.8	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Bis(2-chloroethoxy)methane	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Bis(2-chloroethoxy)methane	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Bis(2-chloroethyl)ether	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Bis(2-chloroethyl)ether	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Bis(2-chloroisopropyl)ether	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Bis(2-chloroisopropyl)ether	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4-Bromophenylphenylether	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4-Bromophenylphenylether	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Butylbenzylphthalate	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Butylbenzylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Carbazole	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Carbazole	ND	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4-Chloroaniline	ND	7.8	mg/Kg dry	10	L-04	SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4-Chloroaniline	ND	1.6	mg/Kg dry	2	L-04	SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4-Chloro-3-methylphenol	ND	7.8	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4-Chloro-3-methylphenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2-Chloronaphthalene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2-Chloronaphthalene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2-Chlorophenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2-Chlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4-Chlorophenylphenylether	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4-Chlorophenylphenylether	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Chrysene	6.4	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Chrysene	7.2	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL

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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3B Sampled: 7/26/2017 10:39

Sample ID: 17G1170-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Dibenz(a,h)anthracene	0.78	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Dibenzofuran	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Dibenzofuran	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Di-n-butylphthalate	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Di-n-butylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
3,3-Dichlorobenzidine	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
3,3-Dichlorobenzidine	ND	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,4-Dichlorophenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,4-Dichlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Diethylphthalate	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Diethylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,4-Dimethylphenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,4-Dimethylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Dimethylphthalate	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Dimethylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4,6-Dinitro-2-methylphenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4,6-Dinitro-2-methylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,4-Dinitrophenol	ND	7.8	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,4-Dinitrophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,4-Dinitrotoluene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,4-Dinitrotoluene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,6-Dinitrotoluene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,6-Dinitrotoluene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Di-n-octylphthalate	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Di-n-octylphthalate	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Fluoranthene	12	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Fluoranthene	18	0.40	mg/Kg dry	2	E	SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Fluorene	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Fluorene	ND	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Hexachlorobenzene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Hexachlorobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Hexachlorobutadiene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Hexachlorobutadiene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Hexachlorocyclopentadiene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Hexachlorocyclopentadiene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Hexachloroethane	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Hexachloroethane	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Indeno(1,2,3-cd)pyrene	4.4	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Indeno(1,2,3-cd)pyrene	5.0	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Isophorone	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Isophorone	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2-Methylnaphthalene	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2-Methylnaphthalene	ND	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3B Sampled: 7/26/2017 10:39

Sample ID: 17G1170-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2-Methylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
3/4-Methylphenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
3/4-Methylphenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Naphthalene	ND	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Naphthalene	ND	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2-Nitroaniline	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2-Nitroaniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
3-Nitroaniline	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
3-Nitroaniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4-Nitroaniline	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4-Nitroaniline	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Nitrobenzene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Nitrobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2-Nitrophenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2-Nitrophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
4-Nitrophenol	ND	7.8	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
4-Nitrophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
N-Nitrosodiphenylamine	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
N-Nitrosodiphenylamine	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
N-Nitrosodi-n-propylamine	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
N-Nitrosodi-n-propylamine	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Pentachloronitrobenzene	ND	4.0	mg/Kg dry	10	V-16	SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Pentachloronitrobenzene	ND	0.81	mg/Kg dry	2	V-16	SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Pentachlorophenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Pentachlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Phenanthrene	2.9	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Phenanthrene	3.4	0.40	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Phenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Phenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Pyrene	16	2.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Pyrene	22	0.40	mg/Kg dry	2	E	SW-846 8270D	8/3/17	8/5/17 19:02	BGL
Pyridine	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
Pyridine	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
1,2,4,5-Tetrachlorobenzene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
1,2,4-Trichlorobenzene	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
1,2,4-Trichlorobenzene	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,4,5-Trichlorophenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,4,5-Trichlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL
2,4,6-Trichlorophenol	ND	4.0	mg/Kg dry	10		SW-846 8270D	8/3/17	8/5/17 19:25	BGL
2,4,6-Trichlorophenol	ND	0.81	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	**25.7** *	30-130	S-07	8/5/17 19:25

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3B Sampled: 7/26/2017 10:39

Sample ID: 17G1170-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		36.0	30-130					8/5/17 19:02	
Phenol-d6		32.1	30-130					8/5/17 19:25	
Phenol-d6		38.4	30-130					8/5/17 19:02	
Nitrobenzene-d5		36.4	30-130					8/5/17 19:25	
Nitrobenzene-d5		41.6	30-130					8/5/17 19:02	
2-Fluorobiphenyl		46.3	30-130					8/5/17 19:25	
2-Fluorobiphenyl		54.0	30-130					8/5/17 19:02	
2,4,6-Tribromophenol		50.5	30-130					8/5/17 19:25	
2,4,6-Tribromophenol		61.6	30-130					8/5/17 19:02	
p-Terphenyl-d14		73.2	30-130					8/5/17 19:25	
p-Terphenyl-d14		84.8	30-130					8/5/17 19:02	

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-9-3B Sampled: 7/26/2017 10:39

Sample ID: 17G1170-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-1B Sampled: 7/26/2017 10:51

Sample ID: 17G1170-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Arsenic	7.5	2.8	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Barium	200	2.8	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Chromium	61	0.57	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Copper	110	0.57	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Lead	21	0.85	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Mercury	0.063	0.028	mg/Kg dry	1		SW-846 7471B	7/31/17	8/1/17 11:01	TJK
Nickel	41	0.57	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Vanadium	78	1.1	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:59	QNW
Zinc	60	1.1	mg/Kg dry	1	B	SW-846 6010C-D	7/31/17	8/1/17 17:59	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-1-1B Sampled: 7/26/2017 10:51

Sample ID: 17G1170-15

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	86.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-1 Sampled: 7/26/2017 11:10

Sample ID: 17G1170-16

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	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1260 [2]	0.15	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 1:48	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.5	30-150		8/5/17 1:48
Decachlorobiphenyl [2]	90.4	30-150		8/5/17 1:48
Tetrachloro-m-xylene [1]	96.6	30-150		8/5/17 1:48
Tetrachloro-m-xylene [2]	101	30-150		8/5/17 1:48

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-1 Sampled: 7/26/2017 11:10

Sample ID: 17G1170-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-2 Sampled: 7/26/2017 11:11

Sample ID: 17G1170-17

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	8/3/17	8/5/17 2:06	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1260 [2]	0.66	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.0	30-150		8/5/17 2:06
Decachlorobiphenyl [2]	93.5	30-150		8/5/17 2:06
Tetrachloro-m-xylene [1]	85.5	30-150		8/5/17 2:06
Tetrachloro-m-xylene [2]	93.6	30-150		8/5/17 2:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-2 Sampled: 7/26/2017 11:11

Sample ID: 17G1170-17

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	88.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3A Sampled: 7/26/2017 11:12

Sample ID: 17G1170-18

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	8/3/17	8/5/17 2:24	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/5/17 2:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.9	30-150		8/5/17 2:24
Decachlorobiphenyl [2]	93.2	30-150		8/5/17 2:24
Tetrachloro-m-xylene [1]	85.9	30-150		8/5/17 2:24
Tetrachloro-m-xylene [2]	93.5	30-150		8/5/17 2:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3A Sampled: 7/26/2017 11:12

Sample ID: 17G1170-18

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	84.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3B Sampled: 7/26/2017 11:13

Sample ID: 17G1170-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.2	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Acetone	ND	8.7	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Acrylonitrile	ND	0.22	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Acrylonitrile	ND	0.87	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Benzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Benzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Bromobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Bromobenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Bromodichloromethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Bromodichloromethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Bromoform	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Bromoform	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Bromomethane	ND	0.087	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Bromomethane	ND	0.35	mg/Kg dry	4	V-34	SW-846 8260C	8/3/17	8/4/17 11:16	MFF
2-Butanone (MEK)	ND	0.87	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
2-Butanone (MEK)	ND	3.5	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
n-Butylbenzene	0.77	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
n-Butylbenzene	0.82	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
sec-Butylbenzene	0.28	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
sec-Butylbenzene	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
tert-Butylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
tert-Butylbenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Carbon Disulfide	ND	0.13	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Carbon Disulfide	ND	0.52	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Carbon Tetrachloride	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Carbon Tetrachloride	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Chlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Chlorobenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Chlorodibromomethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Chlorodibromomethane	ND	0.087	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Chloroethane	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Chloroethane	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Chloroform	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Chloroform	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Chloromethane	ND	0.22	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Chloromethane	ND	0.87	mg/Kg dry	4	V-34	SW-846 8260C	8/3/17	8/4/17 11:16	MFF
2-Chlorotoluene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
2-Chlorotoluene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
4-Chlorotoluene	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
4-Chlorotoluene	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.22	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.87	mg/Kg dry	4	V-05	SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2-Dibromoethane (EDB)	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2-Dibromoethane (EDB)	ND	0.087	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3B Sampled: 7/26/2017 11:13

Sample ID: 17G1170-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibromomethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Dibromomethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2-Dichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2-Dichlorobenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,3-Dichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,3-Dichlorobenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,4-Dichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,4-Dichlorobenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
trans-1,4-Dichloro-2-butene	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.087	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.35	mg/Kg dry	4	V-34	SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1-Dichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1-Dichloroethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2-Dichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2-Dichloroethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1-Dichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1-Dichloroethylene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
cis-1,2-Dichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
cis-1,2-Dichloroethylene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
trans-1,2-Dichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
trans-1,2-Dichloroethylene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2-Dichloropropane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2-Dichloropropane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,3-Dichloropropane	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,3-Dichloropropane	ND	0.087	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
2,2-Dichloropropane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
2,2-Dichloropropane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1-Dichloropropene	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1-Dichloropropene	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
cis-1,3-Dichloropropene	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
cis-1,3-Dichloropropene	ND	0.087	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
trans-1,3-Dichloropropene	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
trans-1,3-Dichloropropene	ND	0.087	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Ethylbenzene	0.43	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Ethylbenzene	0.49	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Hexachlorobutadiene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Hexachlorobutadiene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
2-Hexanone (MBK)	ND	0.44	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
2-Hexanone (MBK)	ND	1.7	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Isopropylbenzene (Cumene)	0.32	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Isopropylbenzene (Cumene)	0.46	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
p-Isopropyltoluene (p-Cymene)	0.32	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
p-Isopropyltoluene (p-Cymene)	0.44	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF

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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3B Sampled: 7/26/2017 11:13

Sample ID: 17G1170-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Methylene Chloride	ND	0.22	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Methylene Chloride	ND	0.87	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.44	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	1.7	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Naphthalene	4.7	0.087	mg/Kg dry	1	E	SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Naphthalene	5.8	0.35	mg/Kg dry	4	V-05	SW-846 8260C	8/3/17	8/4/17 11:16	MFF
n-Propylbenzene	0.49	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
n-Propylbenzene	0.60	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Styrene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Styrene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.087	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Tetrachloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Tetrachloroethylene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Tetrahydrofuran	ND	0.44	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Tetrahydrofuran	ND	1.7	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Toluene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Toluene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2,3-Trichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2,3-Trichlorobenzene	ND	0.87	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2,4-Trichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2,4-Trichlorobenzene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1,1-Trichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1,1-Trichloroethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1,2-Trichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1,2-Trichloroethane	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Trichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Trichloroethylene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2,3-Trichloropropane	ND	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2,3-Trichloropropane	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,2,4-Trimethylbenzene	0.055	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,2,4-Trimethylbenzene	0.17	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
1,3,5-Trimethylbenzene	0.81	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
1,3,5-Trimethylbenzene	0.92	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
Vinyl Chloride	ND	0.087	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:04	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3B Sampled: 7/26/2017 11:13

Sample ID: 17G1170-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Chloride	ND	0.35	mg/Kg dry	4	V-34	SW-846 8260C	8/3/17	8/4/17 11:16	MFF
m+p Xylene	0.12	0.087	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
m+p Xylene	ND	0.35	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF
o-Xylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:04	MFF
o-Xylene	ND	0.17	mg/Kg dry	4		SW-846 8260C	8/3/17	8/4/17 11:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		8/4/17 11:16
1,2-Dichloroethane-d4	110	70-130		7/28/17 22:04
Toluene-d8	91.2	70-130		8/4/17 11:16
Toluene-d8	96.7	70-130		7/28/17 22:04
4-Bromofluorobenzene	100	70-130		8/4/17 11:16
4-Bromofluorobenzene	114	70-130		7/28/17 22:04

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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: 17G1170

Date Received: 7/26/2017

Field Sample #: WS-AOC13-SO-10-3B Sampled: 7/26/2017 11:13

Sample ID: 17G1170-19

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	84.5		% Wt	1		SM 2540G	7/31/17	8/2/17 21:02	PDM

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1170-01 [WS-AOC13-SO-4-1]	B182889	07/31/17
17G1170-02 [WS-AOC13-SO-4-2]	B182889	07/31/17
17G1170-03 [WS-AOC13-SO-4-3]	B182889	07/31/17
17G1170-04 [WS-AOC13-SO-5-1A]	B182889	07/31/17
17G1170-05 [WS-AOC13-SO-5-1B]	B182889	07/31/17
17G1170-06 [WS-AOC13-SO-5-2]	B182889	07/31/17
17G1170-07 [WS-AOC13-SO-5-3]	B182889	07/31/17
17G1170-08 [WS-AOC13-SO-1-1A]	B182889	07/31/17
17G1170-09 [WS-AOC13-SO-1-2]	B182889	07/31/17
17G1170-10 [WS-AOC13-SO-1-3]	B182889	07/31/17
17G1170-11 [WS-AOC13-SO-9-1]	B182889	07/31/17
17G1170-12 [WS-AOC13-SO-9-2]	B182889	07/31/17
17G1170-13 [WS-AOC13-SO-9-3A]	B182889	07/31/17
17G1170-14 [WS-AOC13-SO-9-3B]	B182889	07/31/17
17G1170-15 [WS-AOC13-SO-1-1B]	B182889	07/31/17
17G1170-16 [WS-AOC13-SO-10-1]	B182889	07/31/17
17G1170-17 [WS-AOC13-SO-10-2]	B182889	07/31/17
17G1170-18 [WS-AOC13-SO-10-3A]	B182889	07/31/17
17G1170-19 [WS-AOC13-SO-10-3B]	B182889	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1170-05 [WS-AOC13-SO-5-1B]	B182941	1.08	50.0	07/31/17
17G1170-15 [WS-AOC13-SO-1-1B]	B182941	1.01	50.0	07/31/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1170-05 [WS-AOC13-SO-5-1B]	B182672	0.625	50.0	07/31/17
17G1170-15 [WS-AOC13-SO-1-1B]	B182672	0.613	50.0	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1170-01 [WS-AOC13-SO-4-1]	B183246	10.0	10.0	08/03/17
17G1170-02 [WS-AOC13-SO-4-2]	B183246	10.0	10.0	08/03/17
17G1170-03 [WS-AOC13-SO-4-3]	B183246	10.0	10.0	08/03/17
17G1170-04 [WS-AOC13-SO-5-1A]	B183246	10.0	10.0	08/03/17
17G1170-06 [WS-AOC13-SO-5-2]	B183246	10.0	10.0	08/03/17
17G1170-07 [WS-AOC13-SO-5-3]	B183246	10.0	10.0	08/03/17
17G1170-08 [WS-AOC13-SO-1-1A]	B183246	10.0	10.0	08/03/17
17G1170-09 [WS-AOC13-SO-1-2]	B183246	10.0	10.0	08/03/17
17G1170-10 [WS-AOC13-SO-1-3]	B183246	10.0	10.0	08/03/17
17G1170-11 [WS-AOC13-SO-9-1]	B183246	10.0	10.0	08/03/17
17G1170-12 [WS-AOC13-SO-9-2]	B183246	10.0	10.0	08/03/17
17G1170-13 [WS-AOC13-SO-9-3A]	B183246	10.0	10.0	08/03/17
17G1170-16 [WS-AOC13-SO-10-1]	B183246	10.0	10.0	08/03/17
17G1170-17 [WS-AOC13-SO-10-2]	B183246	10.0	10.0	08/03/17
17G1170-18 [WS-AOC13-SO-10-3A]	B183246	10.0	10.0	08/03/17

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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 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1170-19 [WS-AOC13-SO-10-3B]	B182770	8.59	6.33	1	50	07/28/17

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1170-19RE1 [WS-AOC13-SO-10-3B]	B183244	8.59	6.33	0.25	50	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1170-14 [WS-AOC13-SO-9-3B]	B183204	30.0	1.00	08/03/17
17G1170-14RE1 [WS-AOC13-SO-9-3B]	B183204	30.0	1.00	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1170-07RE1 [WS-AOC13-SO-5-3]	B183542	30.0	2.00	08/07/17
17G1170-07RE2 [WS-AOC13-SO-5-3]	B183542	30.0	2.00	08/07/17
17G1170-07RE3 [WS-AOC13-SO-5-3]	B183542	30.0	2.00	08/07/17

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
Blank (B182770-BLK1)				Prepared & Analyzed: 07/28/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-34
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-34
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
Blank (B182770-BLK1)				Prepared & Analyzed: 07/28/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							V-34
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0308*		mg/Kg wet	0.0250		123	70-130			
Surrogate: Toluene-d8	*0.0230*		mg/Kg wet	0.0250		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0204*		mg/Kg wet	0.0250		81.6	70-130			
LCS (B182770-BS1)				Prepared & Analyzed: 07/28/17						
Acetone	0.107	0.057	mg/Kg wet	0.113		94.8	70-130			
Acrylonitrile	0.0119	0.0057	mg/Kg wet	0.0113		105	70-130			
Benzene	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Bromobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130			
Bromoform	0.0104	0.0011	mg/Kg wet	0.0113		91.8	70-130			
Bromomethane	0.0112	0.0023	mg/Kg wet	0.0113		99.2	70-130			V-34
2-Butanone (MEK)	0.122	0.023	mg/Kg wet	0.113		108	70-130			
n-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		94.9	70-130			
sec-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.0	70-130			
tert-Butylbenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130			
Carbon Disulfide	0.110	0.0034	mg/Kg wet	0.113		97.4	70-130			
Carbon Tetrachloride	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Chlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.6	70-130			
Chlorodibromomethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Chloroethane	0.0110	0.0023	mg/Kg wet	0.0113		97.1	70-130			
Chloroform	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
Chloromethane	0.0128	0.0023	mg/Kg wet	0.0113		112	70-130			V-34
2-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130			
4-Chlorotoluene	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00941	0.0057	mg/Kg wet	0.0113		83.0	70-130			
1,2-Dibromoethane (EDB)	0.0111	0.00057	mg/Kg wet	0.0113		97.6	70-130			
Dibromomethane	0.0106	0.0011	mg/Kg wet	0.0113		93.3	70-130			
1,2-Dichlorobenzene	0.0109	0.0011	mg/Kg wet	0.0113		95.9	70-130			
1,3-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
1,4-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
trans-1,4-Dichloro-2-butene	0.00979	0.0023	mg/Kg wet	0.0113		86.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			V-34
1,1-Dichloroethane	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2-Dichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		96.7	70-130			
1,1-Dichloroethylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
LCS (B182770-BS1)				Prepared & Analyzed: 07/28/17						
cis-1,2-Dichloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
trans-1,2-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
1,2-Dichloropropane	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichloropropane	0.0109	0.00057	mg/Kg wet	0.0113		96.4	70-130			
2,2-Dichloropropane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
1,1-Dichloropropene	0.0109	0.0023	mg/Kg wet	0.0113		96.4	70-130			
cis-1,3-Dichloropropene	0.0105	0.00057	mg/Kg wet	0.0113		92.6	70-130			
trans-1,3-Dichloropropene	0.0106	0.00057	mg/Kg wet	0.0113		93.5	70-130			
Ethylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		96.8	70-130			
Hexachlorobutadiene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
2-Hexanone (MBK)	0.103	0.011	mg/Kg wet	0.113		91.3	70-130			
Isopropylbenzene (Cumene)	0.00934	0.0011	mg/Kg wet	0.0113		82.4	70-130			
p-Isopropyltoluene (p-Cymene)	0.00962	0.0011	mg/Kg wet	0.0113		84.9	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.7	70-130			
Methylene Chloride	0.0135	0.0057	mg/Kg wet	0.0113		119	70-130			
4-Methyl-2-pentanone (MIBK)	0.107	0.011	mg/Kg wet	0.113		94.5	70-130			
Naphthalene	0.00796	0.0023	mg/Kg wet	0.0113		70.2	70-130			
n-Propylbenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.0	70-130			
Styrene	0.00878	0.0011	mg/Kg wet	0.0113		77.5	70-130			
1,1,1,2-Tetrachloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1,2,2-Tetrachloroethane	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
Tetrachloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
Tetrahydrofuran	0.0113	0.011	mg/Kg wet	0.0113		99.6	70-130			
Toluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2,3-Trichlorobenzene	0.00996	0.0057	mg/Kg wet	0.0113		87.9	70-130			
1,2,4-Trichlorobenzene	0.00924	0.0011	mg/Kg wet	0.0113		81.5	70-130			
1,1,1-Trichloroethane	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
Trichloroethylene	0.00980	0.0011	mg/Kg wet	0.0113		86.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.6	70-130			
1,2,3-Trichloropropane	0.0108	0.0023	mg/Kg wet	0.0113		95.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2,4-Trimethylbenzene	0.0100	0.0011	mg/Kg wet	0.0113		88.4	70-130			
1,3,5-Trimethylbenzene	0.00967	0.0011	mg/Kg wet	0.0113		85.3	70-130			
Vinyl Chloride	0.0123	0.0023	mg/Kg wet	0.0113		108	70-130			V-34
m+p Xylene	0.0202	0.0023	mg/Kg wet	0.0227		89.1	70-130			
o-Xylene	0.00856	0.0011	mg/Kg wet	0.0113		75.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0295*		mg/Kg wet	0.0283		104	70-130			
Surrogate: Toluene-d8	*0.0297*		mg/Kg wet	0.0283		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0295*		mg/Kg wet	0.0283		104	70-130			
Batch B183244 - SW-846 5035/5030B										
Blank (B183244-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-34
2-Butanone (MEK)	ND	1.0	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183244 - SW-846 5035/5030B										
Blank (B183244-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-34
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							V-05
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183244 - SW-846 5035/5030B										
Blank (B183244-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							V-34
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0296*		mg/Kg wet	0.0250		118	70-130			
Surrogate: Toluene-d8	*0.0225*		mg/Kg wet	0.0250		90.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0204*		mg/Kg wet	0.0250		81.7	70-130			
LCS (B183244-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acetone	0.0936	0.057	mg/Kg wet	0.113		82.6	70-130			
Acrylonitrile	0.00915	0.0057	mg/Kg wet	0.0113		80.7	70-130			
Benzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Bromobenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
Bromodichloromethane	0.0103	0.0011	mg/Kg wet	0.0113		91.3	70-130			
Bromoform	0.0101	0.0011	mg/Kg wet	0.0113		89.2	70-130			
Bromomethane	0.00887	0.0023	mg/Kg wet	0.0113		78.3	70-130			V-34
2-Butanone (MEK)	0.122	0.023	mg/Kg wet	0.113		108	70-130			
n-Butylbenzene	0.0102	0.0011	mg/Kg wet	0.0113		89.7	70-130			
sec-Butylbenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.0	70-130			
tert-Butylbenzene	0.0101	0.0011	mg/Kg wet	0.0113		88.7	70-130			
Carbon Disulfide	0.0979	0.0034	mg/Kg wet	0.113		86.4	70-130			
Carbon Tetrachloride	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130			
Chlorobenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.4	70-130			
Chlorodibromomethane	0.0104	0.00057	mg/Kg wet	0.0113		91.9	70-130			
Chloroethane	0.00895	0.0023	mg/Kg wet	0.0113		79.0	70-130			
Chloroform	0.0106	0.0023	mg/Kg wet	0.0113		93.3	70-130			
Chloromethane	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			V-34
2-Chlorotoluene	0.0106	0.0011	mg/Kg wet	0.0113		93.7	70-130			
4-Chlorotoluene	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00856	0.0057	mg/Kg wet	0.0113		75.5	70-130			V-05
1,2-Dibromoethane (EDB)	0.0104	0.00057	mg/Kg wet	0.0113		91.6	70-130			
Dibromomethane	0.0103	0.0011	mg/Kg wet	0.0113		90.6	70-130			
1,2-Dichlorobenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.9	70-130			
1,3-Dichlorobenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.5	70-130			
1,4-Dichlorobenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.5	70-130			
trans-1,4-Dichloro-2-butene	0.0107	0.0023	mg/Kg wet	0.0113		94.2	70-130			
Dichlorodifluoromethane (Freon 12)	0.00958	0.0023	mg/Kg wet	0.0113		84.5	70-130			V-34
1,1-Dichloroethane	0.0108	0.0011	mg/Kg wet	0.0113		95.6	70-130			
1,2-Dichloroethane	0.0104	0.0011	mg/Kg wet	0.0113		91.7	70-130			
1,1-Dichloroethylene	0.00959	0.0011	mg/Kg wet	0.0113		84.6	70-130			
cis-1,2-Dichloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
trans-1,2-Dichloroethylene	0.00953	0.0011	mg/Kg wet	0.0113		84.1	70-130			
1,2-Dichloropropane	0.0108	0.0011	mg/Kg wet	0.0113		95.2	70-130			
1,3-Dichloropropane	0.0106	0.00057	mg/Kg wet	0.0113		93.5	70-130			
2,2-Dichloropropane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1-Dichloropropene	0.0100	0.0023	mg/Kg wet	0.0113		88.6	70-130			
cis-1,3-Dichloropropene	0.0122	0.00057	mg/Kg wet	0.0113		107	70-130			
trans-1,3-Dichloropropene	0.0108	0.00057	mg/Kg wet	0.0113		95.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183244 - SW-846 5035/5030B											
LCS (B183244-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17							
Ethylbenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.3		70-130			
Hexachlorobutadiene	0.0100	0.0011	mg/Kg wet	0.0113		88.5		70-130			
2-Hexanone (MBK)	0.106	0.011	mg/Kg wet	0.113		93.6		70-130			
Isopropylbenzene (Cumene)	0.00930	0.0011	mg/Kg wet	0.0113		82.1		70-130			
p-Isopropyltoluene (p-Cymene)	0.00937	0.0011	mg/Kg wet	0.0113		82.7		70-130			
Methyl tert-Butyl Ether (MTBE)	0.00983	0.0011	mg/Kg wet	0.0113		86.7		70-130			
Methylene Chloride	0.0104	0.0057	mg/Kg wet	0.0113		92.2		70-130			
4-Methyl-2-pentanone (MIBK)	0.110	0.011	mg/Kg wet	0.113		97.3		70-130			
Naphthalene	0.00766	0.0023	mg/Kg wet	0.0113		**67.6**	*	70-130			V-05
n-Propylbenzene	0.00985	0.0011	mg/Kg wet	0.0113		86.9		70-130			
Styrene	0.00881	0.0011	mg/Kg wet	0.0113		77.7		70-130			
1,1,1,2-Tetrachloroethane	0.0109	0.0011	mg/Kg wet	0.0113		96.4		70-130			
1,1,2,2-Tetrachloroethane	0.0123	0.00057	mg/Kg wet	0.0113		109		70-130			
Tetrachloroethylene	0.0103	0.0011	mg/Kg wet	0.0113		90.9		70-130			
Tetrahydrofuran	0.0107	0.011	mg/Kg wet	0.0113		94.5		70-130			
Toluene	0.0106	0.0011	mg/Kg wet	0.0113		93.9		70-130			
1,2,3-Trichlorobenzene	0.00883	0.0057	mg/Kg wet	0.0113		77.9		70-130			
1,2,4-Trichlorobenzene	0.00910	0.0011	mg/Kg wet	0.0113		80.3		70-130			
1,1,1-Trichloroethane	0.0104	0.0011	mg/Kg wet	0.0113		92.2		70-130			
1,1,2-Trichloroethane	0.0105	0.0011	mg/Kg wet	0.0113		92.4		70-130			
Trichloroethylene	0.00912	0.0011	mg/Kg wet	0.0113		80.5		70-130			
Trichlorofluoromethane (Freon 11)	0.00917	0.0023	mg/Kg wet	0.0113		80.9		70-130			
1,2,3-Trichloropropane	0.0107	0.0023	mg/Kg wet	0.0113		94.0		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0100	0.0011	mg/Kg wet	0.0113		88.5		70-130			
1,2,4-Trimethylbenzene	0.00977	0.0011	mg/Kg wet	0.0113		86.2		70-130			
1,3,5-Trimethylbenzene	0.00946	0.0011	mg/Kg wet	0.0113		83.5		70-130			
Vinyl Chloride	0.0104	0.0023	mg/Kg wet	0.0113		91.7		70-130			V-34
m+p Xylene	0.0196	0.0023	mg/Kg wet	0.0227		86.4		70-130			
o-Xylene	0.00839	0.0011	mg/Kg wet	0.0113		74.0		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0280*		mg/Kg wet	0.0283		99.0		70-130			
Surrogate: Toluene-d8	*0.0289*		mg/Kg wet	0.0283		102		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0293*		mg/Kg wet	0.0283		103		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B183204 - SW-846 3546												
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17								
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.89*		mg/Kg wet	6.73		57.8		30-130				
Surrogate: Phenol-d6	*4.02*		mg/Kg wet	6.67		60.3		30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2		30-130				
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.81*		mg/Kg wet	6.67		72.2		30-130				
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7		30-130				
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6		40-140				
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140				
Aniline	0.735	0.34	mg/Kg wet	1.67		44.1		40-140				†
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8		40-140				
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140				
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2		40-140				
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2		40-140				
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0		40-140				
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5		40-140				
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.5		40-140				
Bis(2-chloroethyl)ether	1.03	0.34	mg/Kg wet	1.67		62.0		40-140				
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.6		40-140				
Bis(2-Ethylhexyl)phthalate	1.14	0.34	mg/Kg wet	1.67		68.5		40-140				
4-Bromophenylphenylether	1.25	0.34	mg/Kg wet	1.67		75.2		40-140				
Butylbenzylphthalate	1.15	0.34	mg/Kg wet	1.67		68.7		40-140				
Carbazole	1.05	0.17	mg/Kg wet	1.67		62.8		40-140				
4-Chloroaniline	0.567	0.66	mg/Kg wet	1.67		**34.0**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.27	0.66	mg/Kg wet	1.67		76.3		30-130				
2-Chloronaphthalene	1.01	0.34	mg/Kg wet	1.67		60.4		40-140				
2-Chlorophenol	1.13	0.34	mg/Kg wet	1.67		67.7		30-130				
4-Chlorophenylphenylether	1.18	0.34	mg/Kg wet	1.67		71.1		40-140				
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140				
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0		40-140				
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.6		40-140				
Di-n-butylphthalate	1.07	0.34	mg/Kg wet	1.67		64.1		40-140				
3,3-Dichlorobenzidine	0.681	0.17	mg/Kg wet	1.67		40.9		40-140				†
2,4-Dichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.4		30-130				
Diethylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140				
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130				
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4		40-140				
4,6-Dinitro-2-methylphenol	1.05	0.34	mg/Kg wet	1.67		62.9		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B183204 - SW-846 3546												
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17								
2,4-Dinitrophenol	0.902	0.66	mg/Kg wet	1.67		54.1		30-130				
2,4-Dinitrotoluene	1.05	0.34	mg/Kg wet	1.67		62.7		40-140				
2,6-Dinitrotoluene	1.16	0.34	mg/Kg wet	1.67		69.4		40-140				
Di-n-octylphthalate	1.13	0.34	mg/Kg wet	1.67		67.6		40-140				
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0		40-140				
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140				
Hexachlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.1		40-140				
Hexachlorobutadiene	1.23	0.34	mg/Kg wet	1.67		73.6		40-140				
Hexachlorocyclopentadiene	0.916	0.34	mg/Kg wet	1.67		55.0		30-140				
Hexachloroethane	1.12	0.34	mg/Kg wet	1.67		67.0		40-140				
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5		40-140				
Isophorone	1.19	0.34	mg/Kg wet	1.67		71.7		40-140				
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140				
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.2		30-130				
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.3		30-130				
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140				
2-Nitroaniline	1.19	0.34	mg/Kg wet	1.67		71.5		40-140				
3-Nitroaniline	0.860	0.34	mg/Kg wet	1.67		51.6		40-140				†
4-Nitroaniline	1.02	0.34	mg/Kg wet	1.67		61.2		40-140				
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.5		40-140				
2-Nitrophenol	1.13	0.34	mg/Kg wet	1.67		68.0		30-130				
4-Nitrophenol	0.983	0.66	mg/Kg wet	1.67		59.0		10-130				
N-Nitrosodiphenylamine	1.57	0.34	mg/Kg wet	1.67		94.2		40-140				
N-Nitrosodi-n-propylamine	1.17	0.34	mg/Kg wet	1.67		70.0		40-140				
Pentachloronitrobenzene	1.23	0.34	mg/Kg wet	1.67		74.0		40-140			V-16	
Pentachlorophenol	0.792	0.34	mg/Kg wet	1.67		47.5		30-130				
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4		40-140				
Phenol	1.09	0.34	mg/Kg wet	1.67		65.2		20-130				
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2		40-140				
Pyridine	0.724	0.34	mg/Kg wet	1.67		43.5		10-140				†
1,2,4,5-Tetrachlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2		40-140				
1,2,4-Trichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.7		40-140				
2,4,5-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7		30-130				
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5		30-130				
Surrogate: 2-Fluorophenol	*4.69*		mg/Kg wet	6.73		69.6		30-130				
Surrogate: Phenol-d6	*4.81*		mg/Kg wet	6.67		72.1		30-130				
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3		30-130				
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.54*		mg/Kg wet	6.67		83.0		30-130				
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5		30-130				
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3		40-140	8.39	30		
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1		40-140	10.1	30		
Aniline	0.582	0.34	mg/Kg wet	1.67		**34.9**	*	40-140	23.2	50	L-07	† ‡
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9		40-140	6.27	30		
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	6.55	30		
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5		40-140	4.07	30		
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	5.53	30		
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5		40-140	4.68	30		
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8		40-140	2.69	30		
Bis(2-chloroethoxy)methane	1.05	0.34	mg/Kg wet	1.67		62.8		40-140	13.0	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B183204 - SW-846 3546												
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Bis(2-chloroethyl)ether	0.923	0.34	mg/Kg wet	1.67		55.4		40-140	11.3	30		
Bis(2-chloroisopropyl)ether	1.06	0.34	mg/Kg wet	1.67		63.4		40-140	10.9	30		
Bis(2-Ethylhexyl)phthalate	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	4.47	30		
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6		40-140	9.07	30		
Butylbenzylphthalate	1.12	0.34	mg/Kg wet	1.67		67.5		40-140	1.85	30		
Carbazole	0.981	0.17	mg/Kg wet	1.67		58.9		40-140	6.47	30		
4-Chloroaniline	0.439	0.66	mg/Kg wet	1.67		**26.3**	*	40-140	25.5	30	L-04	†
4-Chloro-3-methylphenol	1.14	0.66	mg/Kg wet	1.67		68.3		30-130	11.1	30		
2-Chloronaphthalene	0.897	0.34	mg/Kg wet	1.67		53.8		40-140	11.5	30		
2-Chlorophenol	0.967	0.34	mg/Kg wet	1.67		58.0		30-130	15.3	30		
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.0		40-140	8.97	30		
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5		40-140	5.47	30		
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9		40-140	3.89	30		
Dibenzofuran	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	10.3	30		
Di-n-butylphthalate	1.01	0.34	mg/Kg wet	1.67		60.6		40-140	5.64	30		
3,3-Dichlorobenzidine	0.546	0.17	mg/Kg wet	1.67		**32.8**	*	40-140	21.9	30	L-07	† ‡
2,4-Dichlorophenol	1.05	0.34	mg/Kg wet	1.67		62.9		30-130	13.9	30		
Diethylphthalate	1.13	0.34	mg/Kg wet	1.67		67.9		40-140	7.86	30		
2,4-Dimethylphenol	0.977	0.34	mg/Kg wet	1.67		58.6		30-130	10.3	30		
Dimethylphthalate	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	8.59	50		
4,6-Dinitro-2-methylphenol	0.939	0.34	mg/Kg wet	1.67		56.3		30-130	11.1	50		
2,4-Dinitrophenol	0.767	0.66	mg/Kg wet	1.67		46.0		30-130	16.2	50		
2,4-Dinitrotoluene	0.975	0.34	mg/Kg wet	1.67		58.5		40-140	7.03	30		
2,6-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.3		40-140	9.22	30		
Di-n-octylphthalate	1.12	0.34	mg/Kg wet	1.67		67.4		40-140	0.296	30		
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9		40-140	6.90	30		
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8		40-140	11.1	30		
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.0		40-140	4.68	30		
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.7		40-140	16.1	30		
Hexachlorocyclopentadiene	0.830	0.34	mg/Kg wet	1.67		49.8		30-140	9.93	50		
Hexachloroethane	0.973	0.34	mg/Kg wet	1.67		58.4		40-140	13.8	50		
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1		40-140	7.96	50		
Isophorone	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	11.7	30		
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7		40-140	13.3	30		
2-Methylphenol	0.981	0.34	mg/Kg wet	1.67		58.8		30-130	8.65	30		
3/4-Methylphenol	1.00	0.34	mg/Kg wet	1.67		60.2		30-130	11.0	30		
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8		40-140	14.1	30		
2-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.9		40-140	6.71	30		
3-Nitroaniline	0.789	0.34	mg/Kg wet	1.67		47.3		40-140	8.57	30		†
4-Nitroaniline	0.945	0.34	mg/Kg wet	1.67		56.7		40-140	7.60	30		
Nitrobenzene	1.01	0.34	mg/Kg wet	1.67		60.5		40-140	13.8	30		
2-Nitrophenol	0.979	0.34	mg/Kg wet	1.67		58.8		30-130	14.6	30		
4-Nitrophenol	0.912	0.66	mg/Kg wet	1.67		54.7		10-130	7.50	50		‡
N-Nitrosodiphenylamine	1.46	0.34	mg/Kg wet	1.67		87.8		40-140	7.03	30		
N-Nitrosodi-n-propylamine	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	10.6	30		
Pentachloronitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.6		40-140	6.10	30	V-16	
Pentachlorophenol	0.725	0.34	mg/Kg wet	1.67		43.5		30-130	8.79	50		
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7		40-140	7.46	30		
Phenol	0.943	0.34	mg/Kg wet	1.67		56.6		20-130	14.2	30		
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0		40-140	6.35	30		
Pyridine	0.654	0.34	mg/Kg wet	1.67		39.2		10-140	10.3	50		†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.4		40-140	11.3	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
1,2,4-Trichlorobenzene	0.925	0.34	mg/Kg wet	1.67		55.5	40-140	15.3	30	
2,4,5-Trichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.2	30-130	11.3	30	
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.5	30-130	7.45	50	
Surrogate: 2-Fluorophenol	*4.05*		mg/Kg wet	6.73		60.2	30-130			
Surrogate: Phenol-d6	*4.24*		mg/Kg wet	6.67		63.6	30-130			
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.92*		mg/Kg wet	6.67		73.9	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			
Batch B183542 - SW-846 3546										
Blank (B183542-BLK1)				Prepared: 08/07/17 Analyzed: 08/08/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05

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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 B183542 - SW-846 3546												
Blank (B183542-BLK1)				Prepared: 08/07/17 Analyzed: 08/08/17								
Hexachloroethane	ND	0.34	mg/Kg wet									
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet									
Isophorone	ND	0.34	mg/Kg wet									
2-Methylnaphthalene	ND	0.17	mg/Kg wet									
2-Methylphenol	ND	0.34	mg/Kg wet									
3/4-Methylphenol	ND	0.34	mg/Kg wet									
Naphthalene	ND	0.17	mg/Kg wet									
2-Nitroaniline	ND	0.34	mg/Kg wet									
3-Nitroaniline	ND	0.34	mg/Kg wet									
4-Nitroaniline	ND	0.34	mg/Kg wet									
Nitrobenzene	ND	0.34	mg/Kg wet									
2-Nitrophenol	ND	0.34	mg/Kg wet									
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.59*		mg/Kg wet	6.73		83.0		30-130				
Surrogate: Phenol-d6	*5.35*		mg/Kg wet	6.67		80.2		30-130				
Surrogate: Nitrobenzene-d5	*2.94*		mg/Kg wet	3.33		88.2		30-130				
Surrogate: 2-Fluorobiphenyl	*2.96*		mg/Kg wet	3.33		88.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.23*		mg/Kg wet	6.67		108		30-130				
Surrogate: p-Terphenyl-d14	*3.64*		mg/Kg wet	3.33		109		30-130				
LCS (B183542-BS1)				Prepared: 08/07/17 Analyzed: 08/08/17								
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140				
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.6		40-140				
Aniline	0.763	0.34	mg/Kg wet	1.67		45.8		40-140				†
Anthracene	1.18	0.17	mg/Kg wet	1.67		71.0		40-140				
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.5		40-140				
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8		40-140				
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3		40-140				
Benzo(g,h,i)perylene	1.38	0.17	mg/Kg wet	1.67		82.8		40-140				
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.7		40-140				
Bis(2-chloroethoxy)methane	1.17	0.34	mg/Kg wet	1.67		70.2		40-140				
Bis(2-chloroethyl)ether	0.940	0.34	mg/Kg wet	1.67		56.4		40-140				
Bis(2-chloroisopropyl)ether	1.02	0.34	mg/Kg wet	1.67		61.0		40-140				
Bis(2-Ethylhexyl)phthalate	1.28	0.34	mg/Kg wet	1.67		77.0		40-140				
4-Bromophenylphenylether	1.31	0.34	mg/Kg wet	1.67		78.3		40-140				
Butylbenzylphthalate	1.31	0.34	mg/Kg wet	1.67		78.8		40-140				
Carbazole	1.16	0.17	mg/Kg wet	1.67		69.5		40-140				
4-Chloroaniline	0.641	0.66	mg/Kg wet	1.67		**38.5**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.26	0.66	mg/Kg wet	1.67		75.3		30-130				
2-Chloronaphthalene	0.967	0.34	mg/Kg wet	1.67		58.0		40-140				

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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 B183542 - SW-846 3546											
LCS (B183542-BS1)				Prepared: 08/07/17 Analyzed: 08/08/17							
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.2	30-130				
4-Chlorophenylphenylether	1.23	0.34	mg/Kg wet	1.67		74.1	40-140				
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140				
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140				
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.4	40-140				
Di-n-butylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9	40-140				
3,3-Dichlorobenzidine	0.852	0.17	mg/Kg wet	1.67		51.1	40-140				†
2,4-Dichlorophenol	1.18	0.34	mg/Kg wet	1.67		70.7	30-130				
Diethylphthalate	1.27	0.34	mg/Kg wet	1.67		76.0	40-140				
2,4-Dimethylphenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130				
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.5	40-140				
4,6-Dinitro-2-methylphenol	1.16	0.34	mg/Kg wet	1.67		69.4	30-130				
2,4-Dinitrophenol	0.917	0.66	mg/Kg wet	1.67		55.0	30-130				
2,4-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.7	40-140				
2,6-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140				
Di-n-octylphthalate	1.14	0.34	mg/Kg wet	1.67		68.5	40-140				
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140				
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140				
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.7	40-140				
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		66.0	40-140				
Hexachlorocyclopentadiene	0.798	0.34	mg/Kg wet	1.67		47.9	30-140			V-05	
Hexachloroethane	0.993	0.34	mg/Kg wet	1.67		59.6	40-140				
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140				
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.6	40-140				
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140				
2-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.9	30-130				
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.8	30-130				
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140				
2-Nitroaniline	1.24	0.34	mg/Kg wet	1.67		74.3	40-140				
3-Nitroaniline	0.892	0.34	mg/Kg wet	1.67		53.5	40-140				†
4-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.5	40-140				
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.9	40-140				
2-Nitrophenol	1.09	0.34	mg/Kg wet	1.67		65.6	30-130				
4-Nitrophenol	0.992	0.66	mg/Kg wet	1.67		59.5	10-130				
N-Nitrosodiphenylamine	1.62	0.34	mg/Kg wet	1.67		97.2	40-140				
N-Nitrosodi-n-propylamine	1.06	0.34	mg/Kg wet	1.67		63.4	40-140				
Pentachloronitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			V-16	
Pentachlorophenol	0.985	0.34	mg/Kg wet	1.67		59.1	30-130				
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140				
Phenol	1.04	0.34	mg/Kg wet	1.67		62.3	20-130				
Pyrene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140				
Pyridine	0.702	0.34	mg/Kg wet	1.67		42.1	10-140				†
1,2,4,5-Tetrachlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140				
1,2,4-Trichlorobenzene	1.02	0.34	mg/Kg wet	1.67		61.4	40-140				
2,4,5-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130				
2,4,6-Trichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.5	30-130				
Surrogate: 2-Fluorophenol	*4.88*		mg/Kg wet	6.73		72.5	30-130				
Surrogate: Phenol-d6	*5.10*		mg/Kg wet	6.67		76.5	30-130				
Surrogate: Nitrobenzene-d5	*2.74*		mg/Kg wet	3.33		82.3	30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.00*		mg/Kg wet	6.67		105	30-130				
Surrogate: p-Terphenyl-d14	*3.35*		mg/Kg wet	3.33		100	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 B183542 - SW-846 3546												
LCS Dup (B183542-BSD1)				Prepared: 08/07/17 Analyzed: 08/08/17								
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.4		40-140	3.55	30		
Acenaphthylene	1.12	0.17	mg/Kg wet	1.67		67.1		40-140	2.18	30		
Aniline	0.717	0.34	mg/Kg wet	1.67		43.0		40-140	6.26	50		† ‡
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.2		40-140	5.56	30		
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.1		40-140	3.25	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.7		40-140	2.86	30		
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1		40-140	3.25	30		
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.1		40-140	0.752	30		
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.3		40-140	2.18	30		
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.0		40-140	1.75	30		
Bis(2-chloroethyl)ether	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	15.0	30		
Bis(2-chloroisopropyl)ether	1.09	0.34	mg/Kg wet	1.67		65.2		40-140	6.66	30		
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		72.9		40-140	5.39	30		
4-Bromophenylphenylether	1.24	0.34	mg/Kg wet	1.67		74.1		40-140	5.51	30		
Butylbenzylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5		40-140	4.30	30		
Carbazole	1.10	0.17	mg/Kg wet	1.67		65.8		40-140	5.56	30		
4-Chloroaniline	0.613	0.66	mg/Kg wet	1.67		**36.8**	*	40-140	4.52	30	L-04	†
4-Chloro-3-methylphenol	1.21	0.66	mg/Kg wet	1.67		72.9		30-130	3.29	30		
2-Chloronaphthalene	0.926	0.34	mg/Kg wet	1.67		55.6		40-140	4.33	30		
2-Chlorophenol	1.11	0.34	mg/Kg wet	1.67		66.6		30-130	3.58	30		
4-Chlorophenylphenylether	1.18	0.34	mg/Kg wet	1.67		70.9		40-140	4.39	30		
Chrysene	1.18	0.17	mg/Kg wet	1.67		71.0		40-140	3.16	30		
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.5		40-140	1.89	30		
Dibenzofuran	1.19	0.34	mg/Kg wet	1.67		71.4		40-140	2.76	30		
Di-n-butylphthalate	1.12	0.34	mg/Kg wet	1.67		67.1		40-140	5.42	30		
3,3-Dichlorobenzidine	0.805	0.17	mg/Kg wet	1.67		48.3		40-140	5.68	30		† ‡
2,4-Dichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.3		30-130	0.539	30		
Diethylphthalate	1.20	0.34	mg/Kg wet	1.67		71.9		40-140	5.57	30		
2,4-Dimethylphenol	1.15	0.34	mg/Kg wet	1.67		68.9		30-130	1.81	30		
Dimethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.6		40-140	5.45	50		
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.6		30-130	4.03	50		
2,4-Dinitrophenol	0.922	0.66	mg/Kg wet	1.67		55.3		30-130	0.616	50		
2,4-Dinitrotoluene	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	5.43	30		
2,6-Dinitrotoluene	1.16	0.34	mg/Kg wet	1.67		69.6		40-140	3.86	30		
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.6		40-140	4.38	30		
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.9		40-140	5.34	30		
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0		40-140	5.24	30		
Hexachlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.1		40-140	3.47	30		
Hexachlorobutadiene	1.17	0.34	mg/Kg wet	1.67		69.9		40-140	5.83	30		
Hexachlorocyclopentadiene	0.815	0.34	mg/Kg wet	1.67		48.9		30-140	2.07	50	V-05	
Hexachloroethane	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	7.28	50		
Indeno(1,2,3-cd)pyrene	1.33	0.17	mg/Kg wet	1.67		79.7		40-140	0.908	50		
Isophorone	1.13	0.34	mg/Kg wet	1.67		68.0		40-140	0.966	30		
2-Methylnaphthalene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	0.964	30		
2-Methylphenol	1.04	0.34	mg/Kg wet	1.67		62.5		30-130	0.638	30		
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.7		30-130	0.182	30		
Naphthalene	1.10	0.17	mg/Kg wet	1.67		66.0		40-140	3.74	30		
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.4		40-140	8.21	30		
3-Nitroaniline	0.874	0.34	mg/Kg wet	1.67		52.4		40-140	2.11	30		†
4-Nitroaniline	1.05	0.34	mg/Kg wet	1.67		62.8		40-140	5.85	30		
Nitrobenzene	1.09	0.34	mg/Kg wet	1.67		65.6		40-140	1.01	30		
2-Nitrophenol	1.12	0.34	mg/Kg wet	1.67		67.5		30-130	2.82	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B183542 - SW-846 3546											
LCS Dup (B183542-BSD1)				Prepared: 08/07/17 Analyzed: 08/08/17							
4-Nitrophenol	0.930	0.66	mg/Kg wet	1.67		55.8	10-130	6.52	50		‡
N-Nitrosodiphenylamine	1.54	0.34	mg/Kg wet	1.67		92.6	40-140	4.89	30		
N-Nitrosodi-n-propylamine	1.10	0.34	mg/Kg wet	1.67		65.8	40-140	3.84	30		
Pentachloronitrobenzene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140	4.31	30	V-16	
Pentachlorophenol	0.928	0.34	mg/Kg wet	1.67		55.7	30-130	5.96	50		
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140	5.01	30		
Phenol	1.04	0.34	mg/Kg wet	1.67		62.6	20-130	0.417	30		
Pyrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	0.985	30		
Pyridine	0.751	0.34	mg/Kg wet	1.67		45.0	10-140	6.65	50		†
1,2,4,5-Tetrachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.7	40-140	2.07	30		
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	4.11	30		
2,4,5-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130	2.90	30		
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.6	30-130	5.42	50		
Surrogate: 2-Fluorophenol	*5.07*		mg/Kg wet	6.73		75.2	30-130				
Surrogate: Phenol-d6	*5.00*		mg/Kg wet	6.67		74.9	30-130				
Surrogate: Nitrobenzene-d5	*2.71*		mg/Kg wet	3.33		81.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.78*		mg/Kg wet	3.33		83.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.42*		mg/Kg wet	6.67		96.2	30-130				
Surrogate: p-Terphenyl-d14	*3.19*		mg/Kg wet	3.33		95.8	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 B183246 - SW-846 3540C										
Blank (B183246-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
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	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg wet	0.200		94.5	30-150			
LCS (B183246-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.3	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.221*		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg wet	0.200		104	30-150			
LCS Dup (B183246-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		99.0	40-140	4.88	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	2.24	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		87.6	40-140	2.98	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.9	40-140	0.717	30	
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg wet	0.200		105	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 B183246 - SW-846 3540C										
Matrix Spike (B183246-MS1)		**Source: 17G1170-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.23	0.11	mg/Kg dry	0.216	ND	107	40-140			
Aroclor-1016 [2C]	0.25	0.11	mg/Kg dry	0.216	ND	115	40-140			
Aroclor-1260	0.35	0.11	mg/Kg dry	0.216	0.17	84.8	40-140			
Aroclor-1260 [2C]	0.38	0.11	mg/Kg dry	0.216	0.18	88.5	40-140			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg dry	0.216		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.208*		mg/Kg dry	0.216		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.232*		mg/Kg dry	0.216		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.237*		mg/Kg dry	0.216		109	30-150			
Matrix Spike Dup (B183246-MSD1)		**Source: 17G1170-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.23	0.11	mg/Kg dry	0.216	ND	108	40-140	1.24	50	
Aroclor-1016 [2C]	0.25	0.11	mg/Kg dry	0.216	ND	116	40-140	0.680	50	
Aroclor-1260	0.35	0.11	mg/Kg dry	0.216	0.17	83.1	40-140	1.07	50	
Aroclor-1260 [2C]	0.37	0.11	mg/Kg dry	0.216	0.18	87.6	40-140	0.522	50	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg dry	0.216		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg dry	0.216		97.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.233*		mg/Kg dry	0.216		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.239*		mg/Kg dry	0.216		110	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182672 - SW-846 7471										
Blank (B182672-BLK1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B182672-BS1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	9.58	1.9	mg/Kg wet	9.36		102	73.7-126.3			
LCS Dup (B182672-BSD1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	9.26	1.9	mg/Kg wet	9.36		98.9	73.7-126.3	3.48	30	
Duplicate (B182672-DUP1)		**Source: 17G1170-15**		Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	0.0538	0.029	mg/Kg dry		0.0632			16.1	35	
Matrix Spike (B182672-MS1)		**Source: 17G1170-15**		Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	0.237	0.028	mg/Kg dry	0.189	0.0632	91.9	75-125			
Batch B182941 - SW-846 3050B										
Blank (B182941-BLK1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	1.1	1.0	mg/Kg wet							
LCS (B182941-BS1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	81.8	4.9	mg/Kg wet	88.2		92.7	0-210.3			
Arsenic	54.6	4.9	mg/Kg wet	57.0		95.8	77.8-122.1			
Barium	101	4.9	mg/Kg wet	110		91.4	82-117.4			
Beryllium	67.7	0.49	mg/Kg wet	67.5		100	82.3-117.7			
Cadmium	75.8	0.49	mg/Kg wet	77.8		97.5	81.9-118.2			
Chromium	62.3	0.98	mg/Kg wet	65.0		95.8	78.7-120.6			
Copper	57.2	0.98	mg/Kg wet	56.4		102	80.4-119.6			
Lead	79.4	1.5	mg/Kg wet	85.6		92.8	82.4-117.8			
Nickel	58.8	0.98	mg/Kg wet	61.3		96.0	82.2-117.8			
Selenium	77.1	9.8	mg/Kg wet	78.9		97.8	77.1-122.3			
Silver	53.0	0.98	mg/Kg wet	54.2		97.8	74.3-125.4			
Thallium	185	4.9	mg/Kg wet	178		104	78.2-121.6			
Vanadium	51.5	2.0	mg/Kg wet	56.3		91.5	64.8-135.2			
Zinc	189	2.0	mg/Kg wet	198		95.3	79.7-120.8			B

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182941 - SW-846 3050B										
LCS Dup (B182941-BSD1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	87.6	4.9	mg/Kg wet	88.2		99.4	0-210.3	6.93	30	
Arsenic	57.3	4.9	mg/Kg wet	57.0		101	77.8-122.1	4.79	30	
Barium	111	4.9	mg/Kg wet	110		101	82-117.4	9.55	30	
Beryllium	67.2	0.49	mg/Kg wet	67.5		99.6	82.3-117.7	0.606	30	
Cadmium	79.1	0.49	mg/Kg wet	77.8		102	81.9-118.2	4.28	30	
Chromium	63.7	0.98	mg/Kg wet	65.0		97.9	78.7-120.6	2.19	30	
Copper	59.8	0.98	mg/Kg wet	56.4		106	80.4-119.6	4.33	30	
Lead	82.7	1.5	mg/Kg wet	85.6		96.7	82.4-117.8	4.08	30	
Nickel	61.4	0.98	mg/Kg wet	61.3		100	82.2-117.8	4.23	30	
Selenium	79.6	9.8	mg/Kg wet	78.9		101	77.1-122.3	3.15	30	
Silver	55.1	0.98	mg/Kg wet	54.2		102	74.3-125.4	3.93	30	
Thallium	194	4.9	mg/Kg wet	178		109	78.2-121.6	4.52	30	
Vanadium	54.1	2.0	mg/Kg wet	56.3		96.1	64.8-135.2	4.89	30	
Zinc	198	2.0	mg/Kg wet	198		100	79.7-120.8	4.88	30	B
MRL Check (B182941-MRL1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Lead	0.841	0.74	mg/Kg wet	0.735		114	80-120			

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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 B182889 - % Solids										
Duplicate (B182889-DUP6)		**Source: 17G1170-04**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	91.0		% Wt		92.4			1.53	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-5-1A

Lab Sample ID: 17G1170-04

Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-10-1

Lab Sample ID: 17G1170-16

Date(s) Analyzed: 08/05/2017 08/05/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.15	14.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-10-2

Lab Sample ID: 17G1170-17

Date(s) Analyzed: 08/05/2017 08/05/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.66	7.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
E	Reported result is estimated. Value reported over verified calibration range.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
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.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-34	Initial calibration verification (ICV) 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 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in 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 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
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

17G1170

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	PAHs	ETPH	SVOCs	~~RCP 15 Metals~~	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-A0C13-SO-4-1A	7/24/17	10:40		X	S	U	X									
	~~WS-A0C13-SO-4-1B~~		~~10:42~~								X						
02	WS-A0C13-SO-4-2		10:44					X									
03	WS-A0C13-SO-4-3		10:46					X									
04	WS-A0C13-SO-5-1A		10:30					X									
05	WS-A0C13-SO-5-1B		10:32										X				
06	WS-A0C13-SO-5-2		10:34					X									
07	WS-A0C13-SO-5-3		10:36					X			X						
08	WS-A0C13-SO-1-1A		10:50					X									
09	WS-A0C13-SO-1-2		10:52					X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-A0C13-SO-5-1A (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:
	7/25/17 1530
Received by: (signature)	Date/Time:
	7/26/17 15:30
Relinquished by: (signature)	Date/Time:
	7/26/17 17:04
Received by: (signature)	Date/Time:
	7/26/17 1703
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

7/26/17 1703

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17G1170

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	PAHs	ETPH	SVOCs	RCP 15 Metals	VOCs	SPLP VOCs					# of Containers
10	WS-AOC13-SO-1-3	7/26/17	10:54		X	S	U	X											[2] Preservation Code
11	WS-AOC13-SO-9-1		10:36					X											[3] Container Code
12	WS-AOC13-SO-9-2		10:37					X											
13	WS-AOC13-SO-9-3A		10:38					X											
14	WS-AOC13-SO-9-3B		10:39								X								
15	WS-AOC13-SO-1-1B		10:51									X							
16	WS-AOC13-SO-10-1		11:10					X											
17	WS-AOC13-SO-10-2		11:11					X											
18	WS-AOC13-SO-10-3A		11:12					X											
19	WS-AOC13-SO-10-3B		11:13										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:
	7/26/17 1530
Received by: (signature)	Date/Time:
	7/26/17 15:30
Relinquished by: (signature)	Date/Time:
	7/26/17 17:03
Received by: (signature)	Date/Time:
	7/26/17 1703
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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7/26/17 1703

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By BLF Date 7/26/17 Time 1703

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA 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? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	1
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		7/26/17 1703	

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:

WS-AOC13-SO-10-3B did not receive a percent solids jar, however an encore was received.

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: 17G1170

Laboratory Sample ID(s):

17G1170-01 thru 17G1170-19

Sample Date(s):

07/26/2017

List RCP Methods Used:

, , SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/10/17**

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 9, 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: 17G1171

Enclosed are results of analyses for samples received by the laboratory on July 26, 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

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

REPORT DATE: 8/9/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1171

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-2-1A	17G1171-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-2-1B	17G1171-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-13-SO-2-2	17G1171-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-2-3	17G1171-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-3-1	17G1171-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-3-2	17G1171-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-3-3	17G1171-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-7-1	17G1171-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-7-2	17G1171-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-7-3	17G1171-10	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
WS-AOC-13-SO-6-1A	17G1171-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-6-1B	17G1171-12	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC-13-SO-6-2	17G1171-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-6-3	17G1171-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-8-1	17G1171-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-8-2	17G1171-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-8-3A	17G1171-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-8-3B	17G1171-18	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	

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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: 8/9/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1171

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-18-1	17G1171-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-18-2	17G1171-20	Soil		CTDEP ETPH	
				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.

con-test® ANALYTICAL LABORATORY

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

SW-846 6010C-D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Zinc
17G1171-12[WS-AOC-13-SO-6-1B], 17G1171-18[WS-AOC-13-SO-8-3B], B182941-BS1, B182941-BSD1, B182941-DUP1, B182941-MS1

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Beryllium
17G1171-18[WS-AOC-13-SO-8-3B]

SW-846 8082A

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260
B183184-MSD1

Aroclor-1260 [2C]
B183184-MSD1

S-01

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

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1171-11[WS-AOC-13-SO-6-1A]

Decachlorobiphenyl [2C]
17G1171-11[WS-AOC-13-SO-6-1A]

Tetrachloro-m-xylene
17G1171-11[WS-AOC-13-SO-6-1A]

Tetrachloro-m-xylene [2C]
17G1171-11[WS-AOC-13-SO-6-1A]

SW-846 8260C

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Acrylonitrile
B182933-BS1

trans-1,2-Dichloroethylene
B182933-BS1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

1,2,4-Trichlorobenzene
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

Acetone
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

Naphthalene
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

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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:

1,2,3-Trichlorobenzene
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

1,2,4-Trichlorobenzene
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

Acetone
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

Naphthalene
17G1171-10[WS-AOC-13-SO-7-3], B182724-BLK1, B182724-BS1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
17G1171-18[WS-AOC-13-SO-8-3B], B182933-BLK1, B182933-BS1

SW-846 8270D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline
17G1171-02[WS-AOC-13-SO-2-1B], B183204-BLK1, B183204-BS1, B183204-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B183204-BSD1

Aniline
B183204-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G1171-02[WS-AOC-13-SO-2-1B]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
17G1171-02[WS-AOC-13-SO-2-1B], B183204-BLK1, B183204-BS1, B183204-BSD1

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

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

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

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

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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-1A Sampled: 7/26/2017 11:40

Sample ID: 17G1171-01

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	8/2/17	8/7/17 19:44	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:44	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		8/7/17 19:44
Decachlorobiphenyl [2]	87.6	30-150		8/7/17 19:44
Tetrachloro-m-xylene [1]	88.7	30-150		8/7/17 19:44
Tetrachloro-m-xylene [2]	89.6	30-150		8/7/17 19:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-1A Sampled: 7/26/2017 11:40

Sample ID: 17G1171-01

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	96.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-1B Sampled: 7/26/2017 11:42

Sample ID: 17G1171-02

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Acenaphthylene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Aniline	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Benzo(a)anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Benzo(a)pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Benzo(b)fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Benzo(g,h,i)perylene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Benzo(k)fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Bis(2-chloroethoxy)methane	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Bis(2-chloroethyl)ether	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Bis(2-chloroisopropyl)ether	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4-Bromophenylphenylether	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Butylbenzylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Carbazole	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4-Chloroaniline	ND	1.4	mg/Kg dry	2	L-04	SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4-Chloro-3-methylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2-Chloronaphthalene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2-Chlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4-Chlorophenylphenylether	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Chrysene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Dibenz(a,h)anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Dibenzofuran	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Di-n-butylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
3,3-Dichlorobenzidine	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,4-Dichlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Diethylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,4-Dimethylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Dimethylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4,6-Dinitro-2-methylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,4-Dinitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,4-Dinitrotoluene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,6-Dinitrotoluene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Di-n-octylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Fluorene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Hexachlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Hexachlorobutadiene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Hexachlorocyclopentadiene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Hexachloroethane	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Isophorone	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2-Methylnaphthalene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-1B Sampled: 7/26/2017 11:42

Sample ID: 17G1171-02

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
3/4-Methylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Naphthalene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2-Nitroaniline	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
3-Nitroaniline	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4-Nitroaniline	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Nitrobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2-Nitrophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
4-Nitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
N-Nitrosodiphenylamine	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
N-Nitrosodi-n-propylamine	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Pentachloronitrobenzene	ND	0.72	mg/Kg dry	2	V-16	SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Pentachlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Phenanthrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Phenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
Pyridine	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
1,2,4-Trichlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,4,5-Trichlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL
2,4,6-Trichlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 19:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	36.0	30-130		8/5/17 19:48
Phenol-d6	37.7	30-130		8/5/17 19:48
Nitrobenzene-d5	46.2	30-130		8/5/17 19:48
2-Fluorobiphenyl	48.7	30-130		8/5/17 19:48
2,4,6-Tribromophenol	50.8	30-130		8/5/17 19:48
p-Terphenyl-d14	75.6	30-130		8/5/17 19:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-1B Sampled: 7/26/2017 11:42

Sample ID: 17G1171-02

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	94.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-2 Sampled: 7/26/2017 11:44

Sample ID: 17G1171-03

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	8/2/17	8/7/17 20:03	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:03	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		8/7/17 20:03
Decachlorobiphenyl [2]	80.3	30-150		8/7/17 20:03
Tetrachloro-m-xylene [1]	84.2	30-150		8/7/17 20:03
Tetrachloro-m-xylene [2]	85.8	30-150		8/7/17 20:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-2 Sampled: 7/26/2017 11:44

Sample ID: 17G1171-03

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	80.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-3 Sampled: 7/26/2017 11:46

Sample ID: 17G1171-04

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	8/2/17	8/7/17 20:21	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:21	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		8/7/17 20:21
Decachlorobiphenyl [2]	89.3	30-150		8/7/17 20:21
Tetrachloro-m-xylene [1]	90.7	30-150		8/7/17 20:21
Tetrachloro-m-xylene [2]	91.1	30-150		8/7/17 20:21

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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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-2-3 Sampled: 7/26/2017 11:46

Sample ID: 17G1171-04

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	76.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-3-1 Sampled: 7/26/2017 11:30

Sample ID: 17G1171-05

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	8/2/17	8/7/17 20:39	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:39	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.5	30-150		8/7/17 20:39
Decachlorobiphenyl [2]	94.2	30-150		8/7/17 20:39
Tetrachloro-m-xylene [1]	96.0	30-150		8/7/17 20:39
Tetrachloro-m-xylene [2]	98.0	30-150		8/7/17 20:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-3-1 Sampled: 7/26/2017 11:30

Sample ID: 17G1171-05

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	97.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-3-2 Sampled: 7/26/2017 11:32

Sample ID: 17G1171-06

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	8/2/17	8/7/17 20:57	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		8/7/17 20:57
Decachlorobiphenyl [2]	90.5	30-150		8/7/17 20:57
Tetrachloro-m-xylene [1]	90.0	30-150		8/7/17 20:57
Tetrachloro-m-xylene [2]	92.1	30-150		8/7/17 20:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-3-2 Sampled: 7/26/2017 11:32

Sample ID: 17G1171-06

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	79.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-3-3 Sampled: 7/26/2017 11:34

Sample ID: 17G1171-07

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	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1248 [2]	0.17	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:15	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		8/7/17 21:15
Decachlorobiphenyl [2]	83.1	30-150		8/7/17 21:15
Tetrachloro-m-xylene [1]	85.3	30-150		8/7/17 21:15
Tetrachloro-m-xylene [2]	85.7	30-150		8/7/17 21:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-3-3 Sampled: 7/26/2017 11:34

Sample ID: 17G1171-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-1 Sampled: 7/26/2017 12:00

Sample ID: 17G1171-08

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	8/2/17	8/7/17 21:33	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1260 [1]	0.95	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:33	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		8/7/17 21:33
Decachlorobiphenyl [2]	71.7	30-150		8/7/17 21:33
Tetrachloro-m-xylene [1]	79.2	30-150		8/7/17 21:33
Tetrachloro-m-xylene [2]	78.8	30-150		8/7/17 21:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-1 Sampled: 7/26/2017 12:00

Sample ID: 17G1171-08

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	94.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-2 Sampled: 7/26/2017 12:02

Sample ID: 17G1171-09

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	8/2/17	8/7/17 21:52	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:52	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.0	30-150		8/7/17 21:52
Decachlorobiphenyl [2]	82.3	30-150		8/7/17 21:52
Tetrachloro-m-xylene [1]	88.9	30-150		8/7/17 21:52
Tetrachloro-m-xylene [2]	90.8	30-150		8/7/17 21:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-2 Sampled: 7/26/2017 12:02

Sample ID: 17G1171-09

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	85.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-3 Sampled: 7/26/2017 12:03

Sample ID: 17G1171-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1	L-03, V-05	SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1-Dichloroethane	0.0031	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-3 Sampled: 7/26/2017 12:03

Sample ID: 17G1171-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1	L-03, V-05	SW-846 8260C	7/27/17	7/28/17 0:35	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Tetrachloroethylene	0.0076	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1	L-03, V-05	SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1	L-03, V-05	SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1,1-Trichloroethane	0.0094	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	7/27/17	7/28/17 0:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.0	70-130		7/28/17 0:35
Toluene-d8	92.3	70-130		7/28/17 0:35
4-Bromofluorobenzene	84.0	70-130		7/28/17 0:35

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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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-3 Sampled: 7/26/2017 12:03

Sample ID: 17G1171-10

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	8/2/17	8/7/17 22:59	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:59	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.1	30-150		8/7/17 22:59
Decachlorobiphenyl [2]	91.8	30-150		8/7/17 22:59
Tetrachloro-m-xylene [1]	93.3	30-150		8/7/17 22:59
Tetrachloro-m-xylene [2]	93.6	30-150		8/7/17 22:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-7-3 Sampled: 7/26/2017 12:03

Sample ID: 17G1171-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-1A Sampled: 7/26/2017 11:50

Sample ID: 17G1171-11

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	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1260 [1]	6.3	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/8/17 11:19	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 11:19
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 11:19
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 11:19
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 11:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-1A Sampled: 7/26/2017 11:50

Sample ID: 17G1171-11

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	92.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-1B Sampled: 7/26/2017 11:52

Sample ID: 17G1171-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Barium	16	2.5	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Beryllium	ND	0.25	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Chromium	8.2	0.50	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Copper	31	0.50	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Lead	21	0.74	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	7/31/17	8/1/17 11:20	TJK
Nickel	9.3	0.50	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Vanadium	32	0.99	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 17:50	QNW
Zinc	32	0.99	mg/Kg dry	1	B	SW-846 6010C-D	7/31/17	8/1/17 17:50	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-1B Sampled: 7/26/2017 11:52

Sample ID: 17G1171-12

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	96.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-2 Sampled: 7/26/2017 11:54

Sample ID: 17G1171-13

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	8/2/17	8/7/17 23:36	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:36	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.3	30-150		8/7/17 23:36
Decachlorobiphenyl [2]	84.1	30-150		8/7/17 23:36
Tetrachloro-m-xylene [1]	91.6	30-150		8/7/17 23:36
Tetrachloro-m-xylene [2]	92.2	30-150		8/7/17 23:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-2 Sampled: 7/26/2017 11:54

Sample ID: 17G1171-13

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	83.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-3 Sampled: 7/26/2017 11:56

Sample ID: 17G1171-14

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	8/2/17	8/7/17 23:54	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		8/7/17 23:54
Decachlorobiphenyl [2]	88.2	30-150		8/7/17 23:54
Tetrachloro-m-xylene [1]	90.8	30-150		8/7/17 23:54
Tetrachloro-m-xylene [2]	90.4	30-150		8/7/17 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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-6-3 Sampled: 7/26/2017 11:56

Sample ID: 17G1171-14

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	75.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-1 Sampled: 7/26/2017 11:54

Sample ID: 17G1171-15

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	8/2/17	8/8/17 0:12	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1260 [1]	0.33	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.0	30-150		8/8/17 0:12
Decachlorobiphenyl [2]	78.2	30-150		8/8/17 0:12
Tetrachloro-m-xylene [1]	83.5	30-150		8/8/17 0:12
Tetrachloro-m-xylene [2]	85.7	30-150		8/8/17 0:12

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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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-1 Sampled: 7/26/2017 11:54

Sample ID: 17G1171-15

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	92.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-2 Sampled: 7/26/2017 11:55

Sample ID: 17G1171-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		8/8/17 0:30
Decachlorobiphenyl [2]	73.2	30-150		8/8/17 0:30
Tetrachloro-m-xylene [1]	76.9	30-150		8/8/17 0:30
Tetrachloro-m-xylene [2]	76.1	30-150		8/8/17 0:30

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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-2 Sampled: 7/26/2017 11:55

Sample ID: 17G1171-16

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	98.1		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3A Sampled: 7/26/2017 11:56

Sample ID: 17G1171-17

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	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:49	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		8/8/17 0:49
Decachlorobiphenyl [2]	83.5	30-150		8/8/17 0:49
Tetrachloro-m-xylene [1]	96.0	30-150		8/8/17 0:49
Tetrachloro-m-xylene [2]	96.3	30-150		8/8/17 0:49

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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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3A Sampled: 7/26/2017 11:56

Sample ID: 17G1171-17

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	73.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3B Sampled: 7/26/2017 11:57

Sample ID: 17G1171-18

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Acrylonitrile	ND	0.0048	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Bromomethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Chlorodibromomethane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Chloromethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2-Dibromoethane (EDB)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,3-Dichloropropane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
cis-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
trans-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3B Sampled: 7/26/2017 11:57

Sample ID: 17G1171-18

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Tetrahydrofuran	ND	0.0080	mg/Kg dry	1	V-16	SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
Vinyl Chloride	ND	0.0080	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	7/31/17	7/31/17 16:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		7/31/17 16:24
Toluene-d8	106	70-130		7/31/17 16:24
4-Bromofluorobenzene	103	70-130		7/31/17 16:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3B Sampled: 7/26/2017 11:57

Sample ID: 17G1171-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Arsenic	3.8	3.0	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Barium	23	3.0	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Beryllium	ND	0.60	mg/Kg dry	2	DL-04	SW-846 6010C-D	7/31/17	8/3/17 12:25	QNW
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Chromium	16	0.60	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Copper	45	0.60	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Lead	28	0.90	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	7/31/17	8/1/17 11:22	TJK
Nickel	19	0.60	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Vanadium	23	1.2	mg/Kg dry	1		SW-846 6010C-D	7/31/17	8/1/17 18:13	QNW
Zinc	46	1.2	mg/Kg dry	1	B	SW-846 6010C-D	7/31/17	8/1/17 18:13	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3B Sampled: 7/26/2017 11:57

Sample ID: 17G1171-18

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	79.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-18-1 Sampled: 7/26/2017 13:40

Sample ID: 17G1171-19

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	8/2/17	8/8/17 1:07	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:07	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		8/8/17 1:07
Decachlorobiphenyl [2]	98.8	30-150		8/8/17 1:07
Tetrachloro-m-xylene [1]	97.0	30-150		8/8/17 1:07
Tetrachloro-m-xylene [2]	90.6	30-150		8/8/17 1:07

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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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-18-1 Sampled: 7/26/2017 13:40

Sample ID: 17G1171-19

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	80.2		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-18-2 Sampled: 7/26/2017 13:42

Sample ID: 17G1171-20

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	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1254 [2]	0.36	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:24	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.5	30-150		8/8/17 1:24
Decachlorobiphenyl [2]	96.3	30-150		8/8/17 1:24
Tetrachloro-m-xylene [1]	91.0	30-150		8/8/17 1:24
Tetrachloro-m-xylene [2]	89.0	30-150		8/8/17 1:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-18-2 Sampled: 7/26/2017 13:42

Sample ID: 17G1171-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	810	mg/Kg dry	50		CTDEP ETPH	8/3/17	8/6/17 18:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	76.8	50-150		8/6/17 18:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1171

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-18-2 Sampled: 7/26/2017 13:42

Sample ID: 17G1171-20

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	61.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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
17G1171-20 [WS-AOC-13-SO-18-2]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1171-01 [WS-AOC-13-SO-2-1A]	B182889	07/31/17
17G1171-02 [WS-AOC-13-SO-2-1B]	B182889	07/31/17
17G1171-03 [WS-AOC-13-SO-2-2]	B182889	07/31/17
17G1171-04 [WS-AOC-13-SO-2-3]	B182889	07/31/17
17G1171-05 [WS-AOC-13-SO-3-1]	B182889	07/31/17
17G1171-06 [WS-AOC-13-SO-3-2]	B182889	07/31/17
17G1171-07 [WS-AOC-13-SO-3-3]	B182889	07/31/17
17G1171-08 [WS-AOC-13-SO-7-1]	B182889	07/31/17
17G1171-09 [WS-AOC-13-SO-7-2]	B182889	07/31/17
17G1171-10 [WS-AOC-13-SO-7-3]	B182889	07/31/17
17G1171-11 [WS-AOC-13-SO-6-1A]	B182889	07/31/17
17G1171-12 [WS-AOC-13-SO-6-1B]	B182889	07/31/17
17G1171-13 [WS-AOC-13-SO-6-2]	B182889	07/31/17
17G1171-14 [WS-AOC-13-SO-6-3]	B182889	07/31/17
17G1171-15 [WS-AOC-13-SO-8-1]	B182889	07/31/17
17G1171-16 [WS-AOC-13-SO-8-2]	B182889	07/31/17
17G1171-17 [WS-AOC-13-SO-8-3A]	B182889	07/31/17
17G1171-18 [WS-AOC-13-SO-8-3B]	B182889	07/31/17
17G1171-19 [WS-AOC-13-SO-18-1]	B182889	07/31/17
17G1171-20 [WS-AOC-13-SO-18-2]	B182889	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1171-12 [WS-AOC-13-SO-6-1B]	B182941	1.04	50.0	07/31/17
17G1171-18 [WS-AOC-13-SO-8-3B]	B182941	1.05	50.0	07/31/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1171-12 [WS-AOC-13-SO-6-1B]	B182672	0.607	50.0	07/31/17
17G1171-18 [WS-AOC-13-SO-8-3B]	B182672	0.625	50.0	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1171-01 [WS-AOC-13-SO-2-1A]	B183184	10.0	10.0	08/02/17
17G1171-03 [WS-AOC-13-SO-2-2]	B183184	10.0	10.0	08/02/17
17G1171-04 [WS-AOC-13-SO-2-3]	B183184	10.0	10.0	08/02/17
17G1171-05 [WS-AOC-13-SO-3-1]	B183184	10.0	10.0	08/02/17
17G1171-06 [WS-AOC-13-SO-3-2]	B183184	10.0	10.0	08/02/17
17G1171-07 [WS-AOC-13-SO-3-3]	B183184	10.0	10.0	08/02/17
17G1171-08 [WS-AOC-13-SO-7-1]	B183184	10.0	10.0	08/02/17
17G1171-09 [WS-AOC-13-SO-7-2]	B183184	10.0	10.0	08/02/17
17G1171-10 [WS-AOC-13-SO-7-3]	B183184	10.0	10.0	08/02/17

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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
17G1171-11 [WS-AOC-13-SO-6-1A]	B183184	10.0	10.0	08/02/17
17G1171-13 [WS-AOC-13-SO-6-2]	B183184	10.0	10.0	08/02/17
17G1171-14 [WS-AOC-13-SO-6-3]	B183184	10.0	10.0	08/02/17
17G1171-15 [WS-AOC-13-SO-8-1]	B183184	10.0	10.0	08/02/17
17G1171-16 [WS-AOC-13-SO-8-2]	B183184	10.0	10.0	08/02/17
17G1171-17 [WS-AOC-13-SO-8-3A]	B183184	10.0	10.0	08/02/17
17G1171-19 [WS-AOC-13-SO-18-1]	B183184	10.0	10.0	08/02/17
17G1171-20 [WS-AOC-13-SO-18-2]	B183184	10.0	10.0	08/02/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1171-10 [WS-AOC-13-SO-7-3]	B182724	8.30	10.0	07/27/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1171-18 [WS-AOC-13-SO-8-3B]	B182933	7.89	10.0	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1171-02 [WS-AOC-13-SO-2-1B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182724 - SW-846 5035										
Blank (B182724-BLK1)				Prepared & Analyzed: 07/27/17						
Acetone	ND	0.10	mg/Kg wet							L-03, V-05
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							L-03, V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B182724 - SW-846 5035											
Blank (B182724-BLK1)				Prepared & Analyzed: 07/27/17							
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								L-03, V-05
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								L-03, V-05
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0440*		mg/Kg wet	0.0500		88.1		70-130			
Surrogate: Toluene-d8	*0.0459*		mg/Kg wet	0.0500		91.8		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0442*		mg/Kg wet	0.0500		88.4		70-130			
LCS (B182724-BS1)				Prepared & Analyzed: 07/27/17							
Acetone	0.125	0.10	mg/Kg wet	0.200		**62.3**	*	70-130			L-03, V-05
Acrylonitrile	0.0172	0.0060	mg/Kg wet	0.0200		85.9		70-130			
Benzene	0.0177	0.0020	mg/Kg wet	0.0200		88.4		70-130			
Bromobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7		70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.7		70-130			
Bromoform	0.0176	0.0020	mg/Kg wet	0.0200		88.1		70-130			
Bromomethane	0.0190	0.010	mg/Kg wet	0.0200		94.8		70-130			
2-Butanone (MEK)	0.153	0.040	mg/Kg wet	0.200		76.7		70-130			
n-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.1		70-130			
sec-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130			
tert-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8		70-130			
Carbon Disulfide	0.195	0.0060	mg/Kg wet	0.200		97.6		70-130			
Carbon Tetrachloride	0.0172	0.0020	mg/Kg wet	0.0200		85.8		70-130			
Chlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130			
Chlorodibromomethane	0.0182	0.0010	mg/Kg wet	0.0200		91.1		70-130			
Chloroethane	0.0163	0.020	mg/Kg wet	0.0200		81.5		70-130			
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.7		70-130			
Chloromethane	0.0179	0.010	mg/Kg wet	0.0200		89.7		70-130			
2-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4		70-130			
4-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0152	0.0020	mg/Kg wet	0.0200		76.1		70-130			
1,2-Dibromoethane (EDB)	0.0184	0.0010	mg/Kg wet	0.0200		91.8		70-130			
Dibromomethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130			
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-130			
1,3-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130			
1,4-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130			
trans-1,4-Dichloro-2-butene	0.0154	0.0040	mg/Kg wet	0.0200		76.9		70-130			
Dichlorodifluoromethane (Freon 12)	0.0177	0.020	mg/Kg wet	0.0200		88.4		70-130			
1,1-Dichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130			
1,2-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130			
1,1-Dichloroethylene	0.0174	0.0040	mg/Kg wet	0.0200		86.8		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B182724 - SW-846 5035											
LCS (B182724-BS1)				Prepared & Analyzed: 07/27/17							
cis-1,2-Dichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.0		70-130			
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.6		70-130			
1,2-Dichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.5		70-130			
1,3-Dichloropropane	0.0187	0.0010	mg/Kg wet	0.0200		93.4		70-130			
2,2-Dichloropropane	0.0154	0.0020	mg/Kg wet	0.0200		77.1		70-130			
1,1-Dichloropropene	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130			
cis-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5		70-130			
trans-1,3-Dichloropropene	0.0166	0.0010	mg/Kg wet	0.0200		83.1		70-130			
Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130			
Hexachlorobutadiene	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130			
2-Hexanone (MBK)	0.177	0.020	mg/Kg wet	0.200		88.6		70-130			
Isopropylbenzene (Cumene)	0.0187	0.0020	mg/Kg wet	0.0200		93.5		70-130			
p-Isopropyltoluene (p-Cymene)	0.0185	0.0020	mg/Kg wet	0.0200		92.5		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0170	0.0040	mg/Kg wet	0.0200		84.9		70-130			
Methylene Chloride	0.0187	0.020	mg/Kg wet	0.0200		93.5		70-130			
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.200		99.9		70-130			
Naphthalene	0.0125	0.0040	mg/Kg wet	0.0200		**62.4**	*	70-130			L-03, V-05
n-Propylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5		70-130			
Styrene	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130			
1,1,1,2-Tetrachloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130			
1,1,2,2-Tetrachloroethane	0.0185	0.0010	mg/Kg wet	0.0200		92.6		70-130			
Tetrachloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			
Tetrahydrofuran	0.0163	0.010	mg/Kg wet	0.0200		81.3		70-130			
Toluene	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130			
1,2,3-Trichlorobenzene	0.0125	0.0020	mg/Kg wet	0.0200		**62.5**	*	70-130			L-03, V-05
1,2,4-Trichlorobenzene	0.0135	0.0020	mg/Kg wet	0.0200		**67.6**	*	70-130			L-03, V-05
1,1,1-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130			
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130			
Trichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.7		70-130			
Trichlorofluoromethane (Freon 11)	0.0194	0.010	mg/Kg wet	0.0200		96.9		70-130			
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.3		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0186	0.010	mg/Kg wet	0.0200		93.1		70-130			
1,2,4-Trimethylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130			
1,3,5-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9		70-130			
Vinyl Chloride	0.0164	0.010	mg/Kg wet	0.0200		82.1		70-130			
m+p Xylene	0.0373	0.0040	mg/Kg wet	0.0400		93.2		70-130			
o-Xylene	0.0183	0.0020	mg/Kg wet	0.0200		91.5		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0463*		mg/Kg wet	0.0500		92.7		70-130			
Surrogate: Toluene-d8	*0.0458*		mg/Kg wet	0.0500		91.6		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0480*		mg/Kg wet	0.0500		95.9		70-130			
Batch B182933 - SW-846 5035											
Blank (B182933-BLK1)				Prepared & Analyzed: 07/31/17							
Acetone	ND	0.10	mg/Kg wet								
Acrylonitrile	ND	0.0060	mg/Kg wet								
Benzene	ND	0.0020	mg/Kg wet								
Bromobenzene	ND	0.0020	mg/Kg wet								
Bromodichloromethane	ND	0.0020	mg/Kg wet								
Bromoform	ND	0.0020	mg/Kg wet								
Bromomethane	ND	0.010	mg/Kg wet								
2-Butanone (MEK)	ND	0.040	mg/Kg wet								

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182933 - SW-846 5035										
Blank (B182933-BLK1)				Prepared & Analyzed: 07/31/17						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B182933 - SW-846 5035											
Blank (B182933-BLK1)				Prepared & Analyzed: 07/31/17							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0550*		mg/Kg wet	0.0500		110		70-130			
Surrogate: Toluene-d8	*0.0539*		mg/Kg wet	0.0500		108		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0515*		mg/Kg wet	0.0500		103		70-130			
LCS (B182933-BS1)				Prepared & Analyzed: 07/31/17							
Acetone	0.195	0.10	mg/Kg wet	0.200		97.3		70-130			
Acrylonitrile	0.0287	0.0060	mg/Kg wet	0.0200		**143**	*	70-130			L-01
Benzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130			
Bromobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130			
Bromoform	0.0188	0.0020	mg/Kg wet	0.0200		94.0		70-130			
Bromomethane	0.0201	0.010	mg/Kg wet	0.0200		100		70-130			
2-Butanone (MEK)	0.246	0.040	mg/Kg wet	0.200		123		70-130			
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1		70-130			
sec-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130			
tert-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130			
Carbon Disulfide	0.212	0.0060	mg/Kg wet	0.200		106		70-130			
Carbon Tetrachloride	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130			
Chlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130			
Chloroethane	0.0196	0.020	mg/Kg wet	0.0200		98.0		70-130			
Chloroform	0.0200	0.0040	mg/Kg wet	0.0200		99.8		70-130			
Chloromethane	0.0238	0.010	mg/Kg wet	0.0200		119		70-130			
2-Chlorotoluene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130			
4-Chlorotoluene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130			
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104		70-130			
Dibromomethane	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130			
1,2-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130			
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8		70-130			
1,4-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7		70-130			
trans-1,4-Dichloro-2-butene	0.0196	0.0040	mg/Kg wet	0.0200		98.2		70-130			
Dichlorodifluoromethane (Freon 12)	0.0230	0.020	mg/Kg wet	0.0200		115		70-130			
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113		70-130			
1,2-Dichloroethane	0.0236	0.0020	mg/Kg wet	0.0200		118		70-130			
1,1-Dichloroethylene	0.0208	0.0040	mg/Kg wet	0.0200		104		70-130			
cis-1,2-Dichloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130			
trans-1,2-Dichloroethylene	0.0271	0.0020	mg/Kg wet	0.0200		**135**	*	70-130			L-01
1,2-Dichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130			
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		105		70-130			
2,2-Dichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130			
1,1-Dichloropropene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.3		70-130			
trans-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182933 - SW-846 5035										
LCS (B182933-BS1)				Prepared & Analyzed: 07/31/17						
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Hexachlorobutadiene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.239	0.020	mg/Kg wet	0.200		120	70-130			
Isopropylbenzene (Cumene)	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
p-Isopropyltoluene (p-Cymene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130			
Methylene Chloride	0.0254	0.020	mg/Kg wet	0.0200		127	70-130			
4-Methyl-2-pentanone (MIBK)	0.245	0.020	mg/Kg wet	0.200		123	70-130			
Naphthalene	0.0180	0.0040	mg/Kg wet	0.0200		90.0	70-130			
n-Propylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,1,1,2-Tetrachloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,1,2,2-Tetrachloroethane	0.0182	0.0010	mg/Kg wet	0.0200		90.8	70-130			
Tetrachloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
Tetrahydrofuran	0.0189	0.010	mg/Kg wet	0.0200		94.3	70-130			V-16
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,2,4-Trichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1-Trichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Trichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichlorofluoromethane (Freon 11)	0.0242	0.010	mg/Kg wet	0.0200		121	70-130			
1,2,3-Trichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0235	0.010	mg/Kg wet	0.0200		118	70-130			
1,2,4-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3,5-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Vinyl Chloride	0.0199	0.010	mg/Kg wet	0.0200		99.7	70-130			
m+p Xylene	0.0395	0.0040	mg/Kg wet	0.0400		98.8	70-130			
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0530*		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	*0.0532*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0519*		mg/Kg wet	0.0500		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B183204 - SW-846 3546												
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17								
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.89*		mg/Kg wet	6.73		57.8		30-130				
Surrogate: Phenol-d6	*4.02*		mg/Kg wet	6.67		60.3		30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2		30-130				
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.81*		mg/Kg wet	6.67		72.2		30-130				
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7		30-130				
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6		40-140				
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140				
Aniline	0.735	0.34	mg/Kg wet	1.67		44.1		40-140				†
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8		40-140				
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140				
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2		40-140				
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2		40-140				
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0		40-140				
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5		40-140				
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.5		40-140				
Bis(2-chloroethyl)ether	1.03	0.34	mg/Kg wet	1.67		62.0		40-140				
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.6		40-140				
Bis(2-Ethylhexyl)phthalate	1.14	0.34	mg/Kg wet	1.67		68.5		40-140				
4-Bromophenylphenylether	1.25	0.34	mg/Kg wet	1.67		75.2		40-140				
Butylbenzylphthalate	1.15	0.34	mg/Kg wet	1.67		68.7		40-140				
Carbazole	1.05	0.17	mg/Kg wet	1.67		62.8		40-140				
4-Chloroaniline	0.567	0.66	mg/Kg wet	1.67		**34.0**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.27	0.66	mg/Kg wet	1.67		76.3		30-130				
2-Chloronaphthalene	1.01	0.34	mg/Kg wet	1.67		60.4		40-140				
2-Chlorophenol	1.13	0.34	mg/Kg wet	1.67		67.7		30-130				
4-Chlorophenylphenylether	1.18	0.34	mg/Kg wet	1.67		71.1		40-140				
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140				
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0		40-140				
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.6		40-140				
Di-n-butylphthalate	1.07	0.34	mg/Kg wet	1.67		64.1		40-140				
3,3-Dichlorobenzidine	0.681	0.17	mg/Kg wet	1.67		40.9		40-140				†
2,4-Dichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.4		30-130				
Diethylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140				
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130				
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4		40-140				
4,6-Dinitro-2-methylphenol	1.05	0.34	mg/Kg wet	1.67		62.9		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B183204 - SW-846 3546												
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17								
2,4-Dinitrophenol	0.902	0.66	mg/Kg wet	1.67		54.1		30-130				
2,4-Dinitrotoluene	1.05	0.34	mg/Kg wet	1.67		62.7		40-140				
2,6-Dinitrotoluene	1.16	0.34	mg/Kg wet	1.67		69.4		40-140				
Di-n-octylphthalate	1.13	0.34	mg/Kg wet	1.67		67.6		40-140				
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0		40-140				
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140				
Hexachlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.1		40-140				
Hexachlorobutadiene	1.23	0.34	mg/Kg wet	1.67		73.6		40-140				
Hexachlorocyclopentadiene	0.916	0.34	mg/Kg wet	1.67		55.0		30-140				
Hexachloroethane	1.12	0.34	mg/Kg wet	1.67		67.0		40-140				
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5		40-140				
Isophorone	1.19	0.34	mg/Kg wet	1.67		71.7		40-140				
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140				
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.2		30-130				
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.3		30-130				
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140				
2-Nitroaniline	1.19	0.34	mg/Kg wet	1.67		71.5		40-140				
3-Nitroaniline	0.860	0.34	mg/Kg wet	1.67		51.6		40-140				†
4-Nitroaniline	1.02	0.34	mg/Kg wet	1.67		61.2		40-140				
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.5		40-140				
2-Nitrophenol	1.13	0.34	mg/Kg wet	1.67		68.0		30-130				
4-Nitrophenol	0.983	0.66	mg/Kg wet	1.67		59.0		10-130				
N-Nitrosodiphenylamine	1.57	0.34	mg/Kg wet	1.67		94.2		40-140				
N-Nitrosodi-n-propylamine	1.17	0.34	mg/Kg wet	1.67		70.0		40-140				
Pentachloronitrobenzene	1.23	0.34	mg/Kg wet	1.67		74.0		40-140			V-16	
Pentachlorophenol	0.792	0.34	mg/Kg wet	1.67		47.5		30-130				
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4		40-140				
Phenol	1.09	0.34	mg/Kg wet	1.67		65.2		20-130				
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2		40-140				
Pyridine	0.724	0.34	mg/Kg wet	1.67		43.5		10-140				†
1,2,4,5-Tetrachlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2		40-140				
1,2,4-Trichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.7		40-140				
2,4,5-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7		30-130				
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5		30-130				
Surrogate: 2-Fluorophenol	*4.69*		mg/Kg wet	6.73		69.6		30-130				
Surrogate: Phenol-d6	*4.81*		mg/Kg wet	6.67		72.1		30-130				
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3		30-130				
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.54*		mg/Kg wet	6.67		83.0		30-130				
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5		30-130				
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3		40-140	8.39	30		
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1		40-140	10.1	30		
Aniline	0.582	0.34	mg/Kg wet	1.67		**34.9**	*	40-140	23.2	50	L-07	† ‡
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9		40-140	6.27	30		
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	6.55	30		
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5		40-140	4.07	30		
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	5.53	30		
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5		40-140	4.68	30		
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8		40-140	2.69	30		
Bis(2-chloroethoxy)methane	1.05	0.34	mg/Kg wet	1.67		62.8		40-140	13.0	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B183204 - SW-846 3546												
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17								
Bis(2-chloroethyl)ether	0.923	0.34	mg/Kg wet	1.67		55.4		40-140	11.3	30		
Bis(2-chloroisopropyl)ether	1.06	0.34	mg/Kg wet	1.67		63.4		40-140	10.9	30		
Bis(2-Ethylhexyl)phthalate	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	4.47	30		
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6		40-140	9.07	30		
Butylbenzylphthalate	1.12	0.34	mg/Kg wet	1.67		67.5		40-140	1.85	30		
Carbazole	0.981	0.17	mg/Kg wet	1.67		58.9		40-140	6.47	30		
4-Chloroaniline	0.439	0.66	mg/Kg wet	1.67		**26.3**	*	40-140	25.5	30	L-04	†
4-Chloro-3-methylphenol	1.14	0.66	mg/Kg wet	1.67		68.3		30-130	11.1	30		
2-Chloronaphthalene	0.897	0.34	mg/Kg wet	1.67		53.8		40-140	11.5	30		
2-Chlorophenol	0.967	0.34	mg/Kg wet	1.67		58.0		30-130	15.3	30		
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.0		40-140	8.97	30		
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5		40-140	5.47	30		
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9		40-140	3.89	30		
Dibenzofuran	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	10.3	30		
Di-n-butylphthalate	1.01	0.34	mg/Kg wet	1.67		60.6		40-140	5.64	30		
3,3-Dichlorobenzidine	0.546	0.17	mg/Kg wet	1.67		**32.8**	*	40-140	21.9	30	L-07	† ‡
2,4-Dichlorophenol	1.05	0.34	mg/Kg wet	1.67		62.9		30-130	13.9	30		
Diethylphthalate	1.13	0.34	mg/Kg wet	1.67		67.9		40-140	7.86	30		
2,4-Dimethylphenol	0.977	0.34	mg/Kg wet	1.67		58.6		30-130	10.3	30		
Dimethylphthalate	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	8.59	50		
4,6-Dinitro-2-methylphenol	0.939	0.34	mg/Kg wet	1.67		56.3		30-130	11.1	50		
2,4-Dinitrophenol	0.767	0.66	mg/Kg wet	1.67		46.0		30-130	16.2	50		
2,4-Dinitrotoluene	0.975	0.34	mg/Kg wet	1.67		58.5		40-140	7.03	30		
2,6-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.3		40-140	9.22	30		
Di-n-octylphthalate	1.12	0.34	mg/Kg wet	1.67		67.4		40-140	0.296	30		
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9		40-140	6.90	30		
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8		40-140	11.1	30		
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.0		40-140	4.68	30		
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.7		40-140	16.1	30		
Hexachlorocyclopentadiene	0.830	0.34	mg/Kg wet	1.67		49.8		30-140	9.93	50		
Hexachloroethane	0.973	0.34	mg/Kg wet	1.67		58.4		40-140	13.8	50		
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1		40-140	7.96	50		
Isophorone	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	11.7	30		
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7		40-140	13.3	30		
2-Methylphenol	0.981	0.34	mg/Kg wet	1.67		58.8		30-130	8.65	30		
3/4-Methylphenol	1.00	0.34	mg/Kg wet	1.67		60.2		30-130	11.0	30		
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8		40-140	14.1	30		
2-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.9		40-140	6.71	30		
3-Nitroaniline	0.789	0.34	mg/Kg wet	1.67		47.3		40-140	8.57	30		†
4-Nitroaniline	0.945	0.34	mg/Kg wet	1.67		56.7		40-140	7.60	30		
Nitrobenzene	1.01	0.34	mg/Kg wet	1.67		60.5		40-140	13.8	30		
2-Nitrophenol	0.979	0.34	mg/Kg wet	1.67		58.8		30-130	14.6	30		
4-Nitrophenol	0.912	0.66	mg/Kg wet	1.67		54.7		10-130	7.50	50		‡
N-Nitrosodiphenylamine	1.46	0.34	mg/Kg wet	1.67		87.8		40-140	7.03	30		
N-Nitrosodi-n-propylamine	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	10.6	30		
Pentachloronitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.6		40-140	6.10	30	V-16	
Pentachlorophenol	0.725	0.34	mg/Kg wet	1.67		43.5		30-130	8.79	50		
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7		40-140	7.46	30		
Phenol	0.943	0.34	mg/Kg wet	1.67		56.6		20-130	14.2	30		
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0		40-140	6.35	30		
Pyridine	0.654	0.34	mg/Kg wet	1.67		39.2		10-140	10.3	50		†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.4		40-140	11.3	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
1,2,4-Trichlorobenzene	0.925	0.34	mg/Kg wet	1.67		55.5	40-140	15.3	30	
2,4,5-Trichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.2	30-130	11.3	30	
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.5	30-130	7.45	50	
Surrogate: 2-Fluorophenol	*4.05*		mg/Kg wet	6.73		60.2	30-130			
Surrogate: Phenol-d6	*4.24*		mg/Kg wet	6.67		63.6	30-130			
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.92*		mg/Kg wet	6.67		73.9	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	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 B183184 - SW-846 3540C										
Blank (B183184-BLK1)				Prepared: 08/02/17 Analyzed: 08/07/17						
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	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.4	30-150			
LCS (B183184-BS1)				Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.9	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.156*		mg/Kg wet	0.200		78.2	30-150			
LCS Dup (B183184-BSD1)				Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.7	40-140	2.86	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140	3.71	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.6	40-140	6.86	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		71.3	40-140	6.88	30	
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.159*		mg/Kg wet	0.200		79.7	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 B183184 - SW-846 3540C												
Matrix Spike (B183184-MS1)		**Source: 17G1171-08**		Prepared: 08/02/17 Analyzed: 08/08/17								
Aroclor-1016	0.16	0.11	mg/Kg dry	0.211	ND	76.2		40-140				
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.211	ND	79.6		40-140				
Aroclor-1260	1.1	0.11	mg/Kg dry	0.211	0.95	58.8		40-140				
Aroclor-1260 [2C]	1.0	0.11	mg/Kg dry	0.211	0.90	50.0		40-140				
Surrogate: Decachlorobiphenyl	*0.139*		mg/Kg dry	0.211		66.1		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg dry	0.211		63.2		30-150				
Surrogate: Tetrachloro-m-xylene	*0.148*		mg/Kg dry	0.211		70.3		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg dry	0.211		70.3		30-150				
Matrix Spike Dup (B183184-MSD1)		**Source: 17G1171-08**		Prepared: 08/02/17 Analyzed: 08/08/17								
Aroclor-1016	0.14	0.11	mg/Kg dry	0.211	ND	65.9		40-140	14.5		50	
Aroclor-1016 [2C]	0.15	0.11	mg/Kg dry	0.211	ND	70.0		40-140	12.9		50	
Aroclor-1260	0.53	0.11	mg/Kg dry	0.211	0.95	**-196**	*	40-140	**67.1**	*	50	MS-19
Aroclor-1260 [2C]	0.52	0.11	mg/Kg dry	0.211	0.90	**-184**	*	40-140	**64.8**	*	50	MS-19
Surrogate: Decachlorobiphenyl	*0.123*		mg/Kg dry	0.211		58.2		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.116*		mg/Kg dry	0.211		55.2		30-150				
Surrogate: Tetrachloro-m-xylene	*0.133*		mg/Kg dry	0.211		63.0		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.133*		mg/Kg dry	0.211		63.3		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 B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	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 B182672 - SW-846 7471										
Blank (B182672-BLK1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B182672-BS1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	9.58	1.9	mg/Kg wet	9.36		102	73.7-126.3			
LCS Dup (B182672-BSD1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Mercury	9.26	1.9	mg/Kg wet	9.36		98.9	73.7-126.3	3.48	30	
Batch B182941 - SW-846 3050B										
Blank (B182941-BLK1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	1.1	1.0	mg/Kg wet							
LCS (B182941-BS1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	81.8	4.9	mg/Kg wet	88.2		92.7	0-210.3			
Arsenic	54.6	4.9	mg/Kg wet	57.0		95.8	77.8-122.1			
Barium	101	4.9	mg/Kg wet	110		91.4	82-117.4			
Beryllium	67.7	0.49	mg/Kg wet	67.5		100	82.3-117.7			
Cadmium	75.8	0.49	mg/Kg wet	77.8		97.5	81.9-118.2			
Chromium	62.3	0.98	mg/Kg wet	65.0		95.8	78.7-120.6			
Copper	57.2	0.98	mg/Kg wet	56.4		102	80.4-119.6			
Lead	79.4	1.5	mg/Kg wet	85.6		92.8	82.4-117.8			
Nickel	58.8	0.98	mg/Kg wet	61.3		96.0	82.2-117.8			
Selenium	77.1	9.8	mg/Kg wet	78.9		97.8	77.1-122.3			
Silver	53.0	0.98	mg/Kg wet	54.2		97.8	74.3-125.4			
Thallium	185	4.9	mg/Kg wet	178		104	78.2-121.6			
Vanadium	51.5	2.0	mg/Kg wet	56.3		91.5	64.8-135.2			
Zinc	189	2.0	mg/Kg wet	198		95.3	79.7-120.8			B

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182941 - SW-846 3050B										
LCS Dup (B182941-BSD1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	87.6	4.9	mg/Kg wet	88.2		99.4	0-210.3	6.93	30	
Arsenic	57.3	4.9	mg/Kg wet	57.0		101	77.8-122.1	4.79	30	
Barium	111	4.9	mg/Kg wet	110		101	82-117.4	9.55	30	
Beryllium	67.2	0.49	mg/Kg wet	67.5		99.6	82.3-117.7	0.606	30	
Cadmium	79.1	0.49	mg/Kg wet	77.8		102	81.9-118.2	4.28	30	
Chromium	63.7	0.98	mg/Kg wet	65.0		97.9	78.7-120.6	2.19	30	
Copper	59.8	0.98	mg/Kg wet	56.4		106	80.4-119.6	4.33	30	
Lead	82.7	1.5	mg/Kg wet	85.6		96.7	82.4-117.8	4.08	30	
Nickel	61.4	0.98	mg/Kg wet	61.3		100	82.2-117.8	4.23	30	
Selenium	79.6	9.8	mg/Kg wet	78.9		101	77.1-122.3	3.15	30	
Silver	55.1	0.98	mg/Kg wet	54.2		102	74.3-125.4	3.93	30	
Thallium	194	4.9	mg/Kg wet	178		109	78.2-121.6	4.52	30	
Vanadium	54.1	2.0	mg/Kg wet	56.3		96.1	64.8-135.2	4.89	30	
Zinc	198	2.0	mg/Kg wet	198		100	79.7-120.8	4.88	30	B
Duplicate (B182941-DUP1)		**Source: 17G1171-12**		Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	10.7	2.4	mg/Kg dry		ND			NC	35	
Arsenic	2.44	2.4	mg/Kg dry		ND			NC	35	
Barium	19.4	2.4	mg/Kg dry		15.7			20.9	35	
Beryllium	ND	0.24	mg/Kg dry		ND			NC	35	
Cadmium	ND	0.24	mg/Kg dry		ND			NC	35	
Chromium	7.10	0.48	mg/Kg dry		8.17			14.0	35	
Copper	29.2	0.48	mg/Kg dry		30.9			5.77	35	
Lead	19.8	0.72	mg/Kg dry		21.0			5.80	35	
Nickel	8.75	0.48	mg/Kg dry		9.29			5.93	35	
Selenium	ND	4.8	mg/Kg dry		ND			NC	35	
Silver	ND	0.48	mg/Kg dry		ND			NC	35	
Thallium	2.56	2.4	mg/Kg dry		ND			NC	35	
Vanadium	28.7	0.96	mg/Kg dry		32.1			11.1	35	
Zinc	31.2	0.96	mg/Kg dry		32.4			3.59	35	B
MRL Check (B182941-MRL1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Lead	0.841	0.74	mg/Kg wet	0.735		114	80-120			
Matrix Spike (B182941-MS1)		**Source: 17G1171-12**		Prepared: 07/31/17 Analyzed: 08/01/17						
Antimony	19.9	2.4	mg/Kg dry	24.4	ND	81.8	75-125			
Arsenic	24.8	2.4	mg/Kg dry	24.4	2.02	93.5	75-125			
Barium	39.6	2.4	mg/Kg dry	24.4	15.7	98.1	75-125			
Beryllium	24.2	0.24	mg/Kg dry	24.4	ND	99.5	75-125			
Cadmium	23.7	0.24	mg/Kg dry	24.4	ND	97.4	75-125			
Chromium	32.3	0.49	mg/Kg dry	24.4	8.17	98.9	75-125			
Copper	56.2	0.49	mg/Kg dry	24.4	30.9	104	75-125			
Lead	42.2	0.73	mg/Kg dry	24.4	21.0	87.2	75-125			
Nickel	33.3	0.49	mg/Kg dry	24.4	9.29	98.5	75-125			
Selenium	24.0	4.9	mg/Kg dry	24.4	ND	98.5	75-125			
Silver	23.1	0.49	mg/Kg dry	24.4	ND	94.8	75-125			
Thallium	26.2	2.4	mg/Kg dry	24.4	ND	108	75-125			
Vanadium	55.6	0.98	mg/Kg dry	24.4	32.1	96.5	75-125			
Zinc	56.0	0.98	mg/Kg dry	24.4	32.4	97.1	75-125			B

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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 B182889 - % Solids										
Duplicate (B182889-DUP7)		**Source: 17G1171-08**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	92.0		% Wt		94.8			3.00	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-3-3

Lab Sample ID: 17G1171-07

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-7-1

Lab Sample ID: 17G1171-08

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.95	
	2	0.000	-0.030	0.030	0.90	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-6-1A

Lab Sample ID: 17G1171-11

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	6.3	
	2	0.000	-0.030	0.030	5.7	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-8-1

Lab Sample ID: 17G1171-15

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.33	
	2	0.000	-0.030	0.030	0.32	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-18-2

Lab Sample ID: 17G1171-20

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.36	32.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
RL-12	Elevated reporting limit due to matrix interference.
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.
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.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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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	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in 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 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

17G1171

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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

Page 5 of ____

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-2-1A	7/26/17	11:40		X	S	U	X													
02	WS-AOC13-SO-2-1B	↓	11:42		↓	↓	↓				X										
03	WS-AOC13-SO-2-2		11:44					X													
04	WS-AOC13-SO-2-3		11:46					X													
05	WS-AOC13-SO-3-1		11:30					X													
06	WS-AOC13-SO-3-2		11:32					X													
07	WS-AOC13-SO-3-3		11:34					X													
08	WS-AOC13-SO-7-1		12:00					X													
09	WS-AOC13-SO-7-2		12:02					X													
10	WS-AOC13-SO-7-3	↓	12:03		↓	↓	↓	X					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC13-SO-7-1 (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: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:30
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
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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7/26/17 1703

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17G1171

http://www.contestlabs.com

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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	(Soxlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs							# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-6-1A	7/26/17	11:50		X	S	U	X														
12	WS-AOC13-SO-6-1B		11:52									X										
13	WS-AOC13-SO-6-2		11:54					X														
14	WS-AOC13-SO-6-3		11:56					X														
15	WS-AOC13-SO-8-1		11:54					X														
16	WS-AOC13-SO-8-2		11:55					X														
17	WS-AOC13-SO-8-3A		11:56					X														
18	WS-AOC13-SO-8-3B		11:57									X	X									
19	WS-AOC13-SO-18-1		13:40					X														
20	WS-AOC13-SO-18-2		13:42					X														

WS-AOC-13-SO-18-2 ETPH analysis per client request ks 7/31

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: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature) SJC	Date/Time: 7/26/17 1703
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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7/26/17 1703

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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 BLF Date 7/26/17 Time 1703

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA 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? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-	2 ✗	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4 2	Other Plastic		Other Glass		Encore	1
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 7/26/17 1703	
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\A080617\A0806006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	396420	435896	-9
c - 10	1.64	401324	435896	-8
c - 12	2.37	415700	435896	-5
c - 14	3.04	427710	435896	-2
c - 16	3.65	441238	435896	1
c - 18	4.29	439544	435896	1
o-Terphenyl	4.57	487396	435896	
c - 20	4.89	449397	435896	3
c - 22	5.40	460053	435896	6
c - 24	5.84	432109	435896	-1
c - 26	6.23	457570	435896	5
c - 28	6.59	452358	435896	4
c - 30	6.93	450754	435896	3
c - 32	7.24	439754	435896	1
c - 34	7.54	441393	435896	1
c - 36	7.89	433119	435896	-1

* One compound allowed %D <= 50%

Samples

17G1252-02
17G1073-16@5X
17G1171-20@50X

D:\HPCHEM\1\DATA\A080617\A0806060.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806060.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	395677	432339	-8
c - 10	1.64	400720	432339	-7
c - 12	2.37	413483	432339	-4
c - 14	3.05	425031	432339	-2
c - 16	3.66	438429	432339	1
c - 18	4.29	436657	432339	1
o-Terphenyl	4.57	485024	432339	
c - 20	4.89	444922	432339	3
c - 22	5.40	454087	432339	5
c - 24	5.84	425652	432339	-2
c - 26	6.24	450486	432339	4
c - 28	6.60	446427	432339	3
c - 30	6.93	446559	432339	3
c - 32	7.24	437863	432339	1
c - 34	7.54	438057	432339	1
c - 36	7.89	431036	432339	0

* One compound allowed %D </= 50%

Samples

17G1252-07@10X
17G1252-19@10X
17G1258-08@100X
17G1252-09
17G1258-04
17G1252-14

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: 17G1171

Laboratory Sample ID(s):

17G1171-01 thru 17G1171-20

Sample Date(s):

07/26/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

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

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

Printed Name: **Tod E. Kopyscinski** **Date:** **08/09/17**

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 7, 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: 17G1172

Enclosed are results of analyses for samples received by the laboratory on July 26, 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: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1172

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-8-3	17G1172-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-17-1	17G1172-02	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-13-SO-17-2	17G1172-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-17-3	17G1172-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-11-1	17G1172-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-11-2A	17G1172-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-11-2B	17G1172-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
WS-AOC-13-SO-11-3	17G1172-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-13-1	17G1172-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-13-2A	17G1172-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-13-2B	17G1172-11	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-13-3	17G1172-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-DUP-26	17G1172-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-DUP-27	17G1172-14	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 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1172-03[WS-AOC-13-SO-17-2]

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
17G1172-14[WS-AOC-13-SO-DUP-27]

Decachlorobiphenyl [2C]
17G1172-14[WS-AOC-13-SO-DUP-27]

Tetrachloro-m-xylene
17G1172-14[WS-AOC-13-SO-DUP-27]

Tetrachloro-m-xylene [2C]
17G1172-14[WS-AOC-13-SO-DUP-27]

SW-846 8260C

Qualifications:

V-34

Initial calibration verification (ICV) 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:

Bromomethane
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

Chloromethane
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

Dichlorodifluoromethane (Freon 1:
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

Vinyl Chloride
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3 Sampled: 7/26/2017 13:44

Sample ID: 17G1172-01

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	8/2/17	8/4/17 12:27	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		8/4/17 12:27
Decachlorobiphenyl [2]	97.0	30-150		8/4/17 12:27
Tetrachloro-m-xylene [1]	83.7	30-150		8/4/17 12:27
Tetrachloro-m-xylene [2]	78.6	30-150		8/4/17 12:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3 Sampled: 7/26/2017 13:44

Sample ID: 17G1172-01

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	70.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17G1172-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.3	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Acenaphthylene	ND	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Anthracene	1.9	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(a)anthracene	3.8	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(a)pyrene	3.2	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(b)fluoranthene	4.1	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(g,h,i)perylene	2.6	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(k)fluoranthene	1.5	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Chrysene	4.5	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Dibenz(a,h)anthracene	ND	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Fluoranthene	12	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Fluorene	ND	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Indeno(1,2,3-cd)pyrene	2.1	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
2-Methylnaphthalene	0.98	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Naphthalene	3.2	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Phenanthrene	2.7	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Pyrene	13	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	47.4	30-130		8/4/17 20:44
2-Fluorobiphenyl	46.7	30-130		8/4/17 20:44
p-Terphenyl-d14	67.3	30-130		8/4/17 20:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17G1172-02

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	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1221 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1232 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1242 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1248 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1254 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1260 [2]	0.54	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1262 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1268 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		8/4/17 12:40
Decachlorobiphenyl [2]	99.6	30-150		8/4/17 12:40
Tetrachloro-m-xylene [1]	85.1	30-150		8/4/17 12:40
Tetrachloro-m-xylene [2]	78.0	30-150		8/4/17 12:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17G1172-02

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	37.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-2 Sampled: 7/26/2017 14:06

Sample ID: 17G1172-03

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	8/2/17	8/4/17 12:53	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.1	30-150		8/4/17 12:53
Decachlorobiphenyl [2]	73.4	30-150		8/4/17 12:53
Tetrachloro-m-xylene [1]	71.1	30-150		8/4/17 12:53
Tetrachloro-m-xylene [2]	71.5	30-150		8/4/17 12:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-2 Sampled: 7/26/2017 14:06

Sample ID: 17G1172-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	490	280	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 23:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 23:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-2 Sampled: 7/26/2017 14:06

Sample ID: 17G1172-03

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	72.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-3 Sampled: 7/26/2017 14:08

Sample ID: 17G1172-04

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	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1260 [2]	0.13	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/4/17 13:06
Decachlorobiphenyl [2]	81.2	30-150		8/4/17 13:06
Tetrachloro-m-xylene [1]	78.0	30-150		8/4/17 13:06
Tetrachloro-m-xylene [2]	75.0	30-150		8/4/17 13:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-3 Sampled: 7/26/2017 14:08

Sample ID: 17G1172-04

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	82.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-1 Sampled: 7/26/2017 14:25

Sample ID: 17G1172-05

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	8/2/17	8/4/17 13:18	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.7	30-150		8/4/17 13:18
Decachlorobiphenyl [2]	79.6	30-150		8/4/17 13:18
Tetrachloro-m-xylene [1]	81.5	30-150		8/4/17 13:18
Tetrachloro-m-xylene [2]	81.5	30-150		8/4/17 13:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-1 Sampled: 7/26/2017 14:25

Sample ID: 17G1172-05

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	79.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2A Sampled: 7/26/2017 14:26

Sample ID: 17G1172-06

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	8/2/17	8/4/17 13:31	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.8	30-150		8/4/17 13:31
Decachlorobiphenyl [2]	70.8	30-150		8/4/17 13:31
Tetrachloro-m-xylene [1]	83.0	30-150		8/4/17 13:31
Tetrachloro-m-xylene [2]	82.2	30-150		8/4/17 13:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2A Sampled: 7/26/2017 14:26

Sample ID: 17G1172-06

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	80.3		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.7	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Acrylonitrile	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Benzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromodichloromethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromoform	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromomethane	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
n-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
sec-Butylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
tert-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Carbon Disulfide	ND	0.16	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Carbon Tetrachloride	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chlorodibromomethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chloromethane	ND	0.27	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2-Chlorotoluene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
4-Chlorotoluene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dibromoethane (EDB)	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Dibromomethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,3-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,4-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
trans-1,4-Dichloro-2-butene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1-Dichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
cis-1,2-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
trans-1,2-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dichloropropane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,3-Dichloropropane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2,2-Dichloropropane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
cis-1,3-Dichloropropene	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
trans-1,3-Dichloropropene	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Ethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Hexachlorobutadiene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2-Hexanone (MBK)	ND	0.54	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Isopropylbenzene (Cumene)	0.073	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Methylene Chloride	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.54	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Naphthalene	0.34	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
n-Propylbenzene	0.068	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Styrene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,1,2-Tetrachloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Tetrachloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Tetrahydrofuran	ND	0.54	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Toluene	0.066	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,3-Trichlorobenzene	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,4-Trichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,1-Trichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,2-Trichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Trichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,4-Trimethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,3,5-Trimethylbenzene	0.065	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Vinyl Chloride	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
o-Xylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.7	70-130		7/28/17 22:27
Toluene-d8	89.2	70-130		7/28/17 22:27
4-Bromofluorobenzene	105	70-130		7/28/17 22:27

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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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	190	130	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 23:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.9	50-150		8/4/17 23:43

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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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

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	79.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-3 Sampled: 7/26/2017 14:28

Sample ID: 17G1172-08

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	8/2/17	8/4/17 13:44	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		8/4/17 13:44
Decachlorobiphenyl [2]	66.8	30-150		8/4/17 13:44
Tetrachloro-m-xylene [1]	73.5	30-150		8/4/17 13:44
Tetrachloro-m-xylene [2]	73.9	30-150		8/4/17 13:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-3 Sampled: 7/26/2017 14:28

Sample ID: 17G1172-08

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	82.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-1 Sampled: 7/26/2017 14:42

Sample ID: 17G1172-09

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	8/2/17	8/4/17 13:57	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.5	30-150		8/4/17 13:57
Decachlorobiphenyl [2]	66.7	30-150		8/4/17 13:57
Tetrachloro-m-xylene [1]	78.2	30-150		8/4/17 13:57
Tetrachloro-m-xylene [2]	79.3	30-150		8/4/17 13:57

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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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-1 Sampled: 7/26/2017 14:42

Sample ID: 17G1172-09

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	80.1		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2A Sampled: 7/26/2017 14:43

Sample ID: 17G1172-10

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	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		8/4/17 14:10
Decachlorobiphenyl [2]	72.9	30-150		8/4/17 14:10
Tetrachloro-m-xylene [1]	78.7	30-150		8/4/17 14:10
Tetrachloro-m-xylene [2]	80.1	30-150		8/4/17 14:10

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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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2A Sampled: 7/26/2017 14:43

Sample ID: 17G1172-10

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	77.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2B Sampled: 7/26/2017 14:44

Sample ID: 17G1172-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	73	12	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/5/17 0:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.4	50-150		8/5/17 0:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2B Sampled: 7/26/2017 14:44

Sample ID: 17G1172-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-3 Sampled: 7/26/2017 14:45

Sample ID: 17G1172-12

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	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.9	30-150		8/4/17 14:23
Decachlorobiphenyl [2]	46.0	30-150		8/4/17 14:23
Tetrachloro-m-xylene [1]	53.7	30-150		8/4/17 14:23
Tetrachloro-m-xylene [2]	52.9	30-150		8/4/17 14:23

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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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-3 Sampled: 7/26/2017 14:45

Sample ID: 17G1172-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-26 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-13

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	8/2/17	8/4/17 14:36	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.0	30-150		8/4/17 14:36
Decachlorobiphenyl [2]	45.6	30-150		8/4/17 14:36
Tetrachloro-m-xylene [1]	52.6	30-150		8/4/17 14:36
Tetrachloro-m-xylene [2]	54.6	30-150		8/4/17 14:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-26 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-13

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	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-14

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	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1260 [1]	5.2	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/4/17 16:45
Decachlorobiphenyl [2]	*	30-150	S-01	8/4/17 16:45
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/4/17 16:45
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/4/17 16:45

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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: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-14

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	93.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	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
17G1172-03 [WS-AOC-13-SO-17-2]	B183209	30.0	1.00	08/03/17
17G1172-07 [WS-AOC-13-SO-11-2B]	B183209	30.0	1.00	08/03/17
17G1172-11 [WS-AOC-13-SO-13-2B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1172-01 [WS-AOC-13-SO-8-3]	B182889	07/31/17
17G1172-02 [WS-AOC-13-SO-17-1]	B182889	07/31/17
17G1172-03 [WS-AOC-13-SO-17-2]	B182889	07/31/17
17G1172-04 [WS-AOC-13-SO-17-3]	B182889	07/31/17
17G1172-05 [WS-AOC-13-SO-11-1]	B182889	07/31/17
17G1172-06 [WS-AOC-13-SO-11-2A]	B182889	07/31/17
17G1172-07 [WS-AOC-13-SO-11-2B]	B182889	07/31/17
17G1172-08 [WS-AOC-13-SO-11-3]	B182889	07/31/17
17G1172-09 [WS-AOC-13-SO-13-1]	B182889	07/31/17
17G1172-10 [WS-AOC-13-SO-13-2A]	B182889	07/31/17
17G1172-11 [WS-AOC-13-SO-13-2B]	B182889	07/31/17
17G1172-12 [WS-AOC-13-SO-13-3]	B182889	07/31/17
17G1172-13 [WS-AOC-13-SO-DUP-26]	B182889	07/31/17
17G1172-14 [WS-AOC-13-SO-DUP-27]	B182889	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1172-01 [WS-AOC-13-SO-8-3]	B183181	10.0	10.0	08/02/17
17G1172-02 [WS-AOC-13-SO-17-1]	B183181	10.0	10.0	08/02/17
17G1172-03 [WS-AOC-13-SO-17-2]	B183181	10.0	10.0	08/02/17
17G1172-04 [WS-AOC-13-SO-17-3]	B183181	10.0	10.0	08/02/17
17G1172-05 [WS-AOC-13-SO-11-1]	B183181	10.0	10.0	08/02/17
17G1172-06 [WS-AOC-13-SO-11-2A]	B183181	10.0	10.0	08/02/17
17G1172-08 [WS-AOC-13-SO-11-3]	B183181	10.0	10.0	08/02/17
17G1172-09 [WS-AOC-13-SO-13-1]	B183181	10.0	10.0	08/02/17
17G1172-10 [WS-AOC-13-SO-13-2A]	B183181	10.0	10.0	08/02/17
17G1172-12 [WS-AOC-13-SO-13-3]	B183181	10.0	10.0	08/02/17
17G1172-13 [WS-AOC-13-SO-DUP-26]	B183181	10.0	10.0	08/02/17
17G1172-14 [WS-AOC-13-SO-DUP-27]	B183181	10.0	10.0	08/02/17

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1172-07 [WS-AOC-13-SO-11-2B]	B182770	7.68	6.57	1	50	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1172-02 [WS-AOC-13-SO-17-1]	B183204	15.0	1.00	08/03/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
Blank (B182770-BLK1)				Prepared & Analyzed: 07/28/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-34
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-34
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
Blank (B182770-BLK1)				Prepared & Analyzed: 07/28/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							V-34
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0308*		mg/Kg wet	0.0250		123	70-130			
Surrogate: Toluene-d8	*0.0230*		mg/Kg wet	0.0250		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0204*		mg/Kg wet	0.0250		81.6	70-130			
LCS (B182770-BS1)				Prepared & Analyzed: 07/28/17						
Acetone	0.107	0.057	mg/Kg wet	0.113		94.8	70-130			
Acrylonitrile	0.0119	0.0057	mg/Kg wet	0.0113		105	70-130			
Benzene	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Bromobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130			
Bromoform	0.0104	0.0011	mg/Kg wet	0.0113		91.8	70-130			
Bromomethane	0.0112	0.0023	mg/Kg wet	0.0113		99.2	70-130			V-34
2-Butanone (MEK)	0.122	0.023	mg/Kg wet	0.113		108	70-130			
n-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		94.9	70-130			
sec-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.0	70-130			
tert-Butylbenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130			
Carbon Disulfide	0.110	0.0034	mg/Kg wet	0.113		97.4	70-130			
Carbon Tetrachloride	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Chlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.6	70-130			
Chlorodibromomethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Chloroethane	0.0110	0.0023	mg/Kg wet	0.0113		97.1	70-130			
Chloroform	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
Chloromethane	0.0128	0.0023	mg/Kg wet	0.0113		112	70-130			V-34
2-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130			
4-Chlorotoluene	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00941	0.0057	mg/Kg wet	0.0113		83.0	70-130			
1,2-Dibromoethane (EDB)	0.0111	0.00057	mg/Kg wet	0.0113		97.6	70-130			
Dibromomethane	0.0106	0.0011	mg/Kg wet	0.0113		93.3	70-130			
1,2-Dichlorobenzene	0.0109	0.0011	mg/Kg wet	0.0113		95.9	70-130			
1,3-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
1,4-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
trans-1,4-Dichloro-2-butene	0.00979	0.0023	mg/Kg wet	0.0113		86.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			V-34
1,1-Dichloroethane	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2-Dichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		96.7	70-130			
1,1-Dichloroethylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
LCS (B182770-BS1)				Prepared & Analyzed: 07/28/17						
cis-1,2-Dichloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
trans-1,2-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
1,2-Dichloropropane	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichloropropane	0.0109	0.00057	mg/Kg wet	0.0113		96.4	70-130			
2,2-Dichloropropane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
1,1-Dichloropropene	0.0109	0.0023	mg/Kg wet	0.0113		96.4	70-130			
cis-1,3-Dichloropropene	0.0105	0.00057	mg/Kg wet	0.0113		92.6	70-130			
trans-1,3-Dichloropropene	0.0106	0.00057	mg/Kg wet	0.0113		93.5	70-130			
Ethylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		96.8	70-130			
Hexachlorobutadiene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
2-Hexanone (MBK)	0.103	0.011	mg/Kg wet	0.113		91.3	70-130			
Isopropylbenzene (Cumene)	0.00934	0.0011	mg/Kg wet	0.0113		82.4	70-130			
p-Isopropyltoluene (p-Cymene)	0.00962	0.0011	mg/Kg wet	0.0113		84.9	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.7	70-130			
Methylene Chloride	0.0135	0.0057	mg/Kg wet	0.0113		119	70-130			
4-Methyl-2-pentanone (MIBK)	0.107	0.011	mg/Kg wet	0.113		94.5	70-130			
Naphthalene	0.00796	0.0023	mg/Kg wet	0.0113		70.2	70-130			
n-Propylbenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.0	70-130			
Styrene	0.00878	0.0011	mg/Kg wet	0.0113		77.5	70-130			
1,1,1,2-Tetrachloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1,2,2-Tetrachloroethane	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
Tetrachloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
Tetrahydrofuran	0.0113	0.011	mg/Kg wet	0.0113		99.6	70-130			
Toluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2,3-Trichlorobenzene	0.00996	0.0057	mg/Kg wet	0.0113		87.9	70-130			
1,2,4-Trichlorobenzene	0.00924	0.0011	mg/Kg wet	0.0113		81.5	70-130			
1,1,1-Trichloroethane	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
Trichloroethylene	0.00980	0.0011	mg/Kg wet	0.0113		86.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.6	70-130			
1,2,3-Trichloropropane	0.0108	0.0023	mg/Kg wet	0.0113		95.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2,4-Trimethylbenzene	0.0100	0.0011	mg/Kg wet	0.0113		88.4	70-130			
1,3,5-Trimethylbenzene	0.00967	0.0011	mg/Kg wet	0.0113		85.3	70-130			
Vinyl Chloride	0.0123	0.0023	mg/Kg wet	0.0113		108	70-130			V-34
m+p Xylene	0.0202	0.0023	mg/Kg wet	0.0227		89.1	70-130			
o-Xylene	0.00856	0.0011	mg/Kg wet	0.0113		75.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0295*		mg/Kg wet	0.0283		104	70-130			
Surrogate: Toluene-d8	*0.0297*		mg/Kg wet	0.0283		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0295*		mg/Kg wet	0.0283		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
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	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	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 B183181 - SW-846 3540C										
Blank (B183181-BLK1)				Prepared: 08/02/17 Analyzed: 08/04/17						
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		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		95.1	30-150			
LCS (B183181-BS1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.9	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.3	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg wet	0.200		98.8	30-150			
LCS Dup (B183181-BSD1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.8	40-140	3.36	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.3	40-140	1.55	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.5	40-140	2.09	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	1.93	30	
Surrogate: Decachlorobiphenyl	*0.180*		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.2	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 B183181 - SW-846 3540C										
Matrix Spike (B183181-MS1)		**Source: 17G1172-01**		Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.32	0.14	mg/Kg dry	0.283	ND	113	40-140			
Aroclor-1016 [2C]	0.32	0.14	mg/Kg dry	0.283	ND	113	40-140			
Aroclor-1260	0.27	0.14	mg/Kg dry	0.283	ND	94.6	40-140			
Aroclor-1260 [2C]	0.29	0.14	mg/Kg dry	0.283	ND	103	40-140			
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg dry	0.283		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.245*		mg/Kg dry	0.283		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.231*		mg/Kg dry	0.283		81.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.225*		mg/Kg dry	0.283		79.7	30-150			
Matrix Spike Dup (B183181-MSD1)		**Source: 17G1172-01**		Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.30	0.14	mg/Kg dry	0.283	ND	106	40-140	6.12	50	
Aroclor-1016 [2C]	0.31	0.14	mg/Kg dry	0.283	ND	111	40-140	2.16	50	
Aroclor-1260	0.27	0.14	mg/Kg dry	0.283	ND	94.2	40-140	0.474	50	
Aroclor-1260 [2C]	0.30	0.14	mg/Kg dry	0.283	ND	105	40-140	1.69	50	
Surrogate: Decachlorobiphenyl	*0.224*		mg/Kg dry	0.283		79.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.270*		mg/Kg dry	0.283		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.243*		mg/Kg dry	0.283		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.229*		mg/Kg dry	0.283		81.1	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 B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			
Matrix Spike (B183209-MS1)	**Source: 17G1172-11**			Prepared: 08/03/17 Analyzed: 08/05/17						
CT ETPH	111	12	mg/Kg dry	38.9	72.7	98.9	50-150			
Surrogate: o-Terphenyl	*3.19*		mg/Kg dry	3.89		82.1	50-150			
Matrix Spike Dup (B183209-MSD1)	**Source: 17G1172-11**			Prepared: 08/03/17 Analyzed: 08/05/17						
CT ETPH	114	12	mg/Kg dry	38.9	72.7	107	50-150	2.68	30	
Surrogate: o-Terphenyl	*3.23*		mg/Kg dry	3.89		83.2	50-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182889 - % Solids										
Duplicate (B182889-DUP8)		**Source: 17G1172-11**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	80.5		% Wt		85.8			6.37	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-17-1

Lab Sample ID: 17G1172-02 Date(s) Analyzed: 08/04/2017 08/04/2017

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-1260	1	0.000	-0.030	0.030	0.50	
	2	0.000	-0.030	0.030	0.54	7.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-DUP-27

Lab Sample ID: 17G1172-14 Date(s) Analyzed: 08/04/2017 08/04/2017

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-1260	1	0.000	-0.030	0.030	5.2	
	2	0.000	-0.030	0.030	5.4	3.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183181-BS1

Date(s) Analyzed: 08/04/2017 08/04/2017

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	0.20	5.1
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

LCS Dup

Lab Sample ID: B183181-BSD1 Date(s) Analyzed: 08/04/2017 08/04/2017

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	0.17	
	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: B183181-MS1 Date(s) Analyzed: 08/04/2017 08/04/2017

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	0.32	
	2	0.000	-0.030	0.030	0.32	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.29	7.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183181-MSD1 Date(s) Analyzed: 08/04/2017 08/04/2017

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	0.30	
	2	0.000	-0.030	0.030	0.31	3.3
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.30	10.5

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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.

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.
V-34	Initial calibration verification (ICV) 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
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 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

17G1172

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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

Page 7 of ____

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-8-3	7/26/17	13:44		X	S	U	X								
02	WS-AOC13-SO-17-1		14:04					X	X							
03	WS-AOC13-SO-17-2		14:06					X								
04	WS-AOC13-SO-17-3		14:08					X								
05	WS-AOC13-SO-11-1		14:25					X								
06	WS-AOC13-SO-11-2A		14:26					X								
07	WS-AOC13-SO-11-2B		14:27							X			X			
08	WS-AOC13-SO-11-3		14:28					X								
09	WS-AOC13-SO-13-1		14:42					X								
10	WS-AOC13-SO-13-2A		14:43					X								

WS-AOC-13-SO-17-2 ETPH analysis per client request KS 7/31

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: 7/26/17 1030
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
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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7/26/17 1703

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

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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	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSRs 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-13-2B	7/26/17	14:44		X	S	U			X						
12	WS-AOC13-SO-13-3		14:45					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-AOC13-SO-13-2B (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: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:53
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
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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7/26/17 1703

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPHs	SVOCs	~~RCRA Metals~~	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
13	WS-AOC13-SO-DUP-26	7/26/17			X	S	U	X									
14	WS-AOC13-SO-DUP-27							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: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:30
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
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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7/26/17 1703

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East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By BLF Date 7/26/17 Time 1703

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ___ Actual Temp -

Was Custody Seal Intact? NA 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? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
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		7/26/17 1703	

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\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

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: 17G1172

Laboratory Sample ID(s):

17G1172-01 thru 17G1172-14

Sample Date(s):

07/26/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/07/17**

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 11, 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: 17G1252

Enclosed are results of analyses for samples received by the laboratory on July 27, 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: 8/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1252

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-16-1	17G1252-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-16-2	17G1252-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
WS-AOC-13-SO-16-3	17G1252-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-1	17G1252-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-2	17G1252-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-3A	17G1252-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-3B	17G1252-07	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-15-1	17G1252-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-15-2	17G1252-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-15-3	17G1252-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-1	17G1252-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-2	17G1252-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-3A	17G1252-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-3B	17G1252-14	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-20-1	17G1252-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-20-2	17G1252-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-20-3	17G1252-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-20-4A	17G1252-18	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 8/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1252

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-20-4B	17G1252-19	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-19-1	17G1252-20	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.

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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-1 Sampled: 7/26/2017 15:00

Sample ID: 17G1252-01

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	8/3/17	8/10/17 17:50	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.5	30-150		8/10/17 17:50
Decachlorobiphenyl [2]	76.3	30-150		8/10/17 17:50
Tetrachloro-m-xylene [1]	80.7	30-150		8/10/17 17:50
Tetrachloro-m-xylene [2]	78.6	30-150		8/10/17 17:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-1 Sampled: 7/26/2017 15:00

Sample ID: 17G1252-01

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	66.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

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	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		8/10/17 18:08
Decachlorobiphenyl [2]	87.7	30-150		8/10/17 18:08
Tetrachloro-m-xylene [1]	81.8	30-150		8/10/17 18:08
Tetrachloro-m-xylene [2]	80.1	30-150		8/10/17 18:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	26	18	mg/Kg dry	1		CTDEP ETPH	8/7/17	8/7/17 19:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.4	50-150		8/7/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Arsenic	9.6	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Barium	40	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Beryllium	ND	0.45	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Cadmium	ND	0.45	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Chromium	34	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Copper	20	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Lead	13	1.3	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Mercury	ND	0.045	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:06	TJK
Nickel	19	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Selenium	ND	8.9	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Silver	ND	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Thallium	ND	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Vanadium	41	1.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Zinc	57	1.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

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	56.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-3 Sampled: 7/26/2017 15:04

Sample ID: 17G1252-03

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	8/3/17	8/10/17 18:25	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.7	30-150		8/10/17 18:25
Decachlorobiphenyl [2]	88.6	30-150		8/10/17 18:25
Tetrachloro-m-xylene [1]	79.7	30-150		8/10/17 18:25
Tetrachloro-m-xylene [2]	80.0	30-150		8/10/17 18:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-3 Sampled: 7/26/2017 15:04

Sample ID: 17G1252-03

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	61.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-1 Sampled: 7/26/2017 15:07

Sample ID: 17G1252-04

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	8/3/17	8/10/17 18:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	39.1	30-150		8/10/17 18:43
Decachlorobiphenyl [2]	44.9	30-150		8/10/17 18:43
Tetrachloro-m-xylene [1]	56.3	30-150		8/10/17 18:43
Tetrachloro-m-xylene [2]	57.6	30-150		8/10/17 18:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-1 Sampled: 7/26/2017 15:07

Sample ID: 17G1252-04

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	90.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-2 Sampled: 7/26/2017 15:08

Sample ID: 17G1252-05

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	8/3/17	8/10/17 19:01	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.7	30-150		8/10/17 19:01
Decachlorobiphenyl [2]	66.7	30-150		8/10/17 19:01
Tetrachloro-m-xylene [1]	79.7	30-150		8/10/17 19:01
Tetrachloro-m-xylene [2]	83.5	30-150		8/10/17 19:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-2 Sampled: 7/26/2017 15:08

Sample ID: 17G1252-05

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	78.2		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3A Sampled: 7/26/2017 15:09

Sample ID: 17G1252-06

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	8/3/17	8/10/17 19:18	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.9	30-150		8/10/17 19:18
Decachlorobiphenyl [2]	62.4	30-150		8/10/17 19:18
Tetrachloro-m-xylene [1]	79.2	30-150		8/10/17 19:18
Tetrachloro-m-xylene [2]	81.5	30-150		8/10/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3A Sampled: 7/26/2017 15:09

Sample ID: 17G1252-06

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	79.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3B Sampled: 7/26/2017 15:10

Sample ID: 17G1252-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	760	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/6/17 22:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		8/6/17 22:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3B Sampled: 7/26/2017 15:10

Sample ID: 17G1252-07

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	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-1 Sampled: 7/26/2017 15:20

Sample ID: 17G1252-08

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	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1248 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1254 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1260 [2]	0.74	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.2	30-150		8/10/17 19:36
Decachlorobiphenyl [2]	72.9	30-150		8/10/17 19:36
Tetrachloro-m-xylene [1]	70.4	30-150		8/10/17 19:36
Tetrachloro-m-xylene [2]	75.4	30-150		8/10/17 19:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-1 Sampled: 7/26/2017 15:20

Sample ID: 17G1252-08

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	34.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-2 Sampled: 7/26/2017 15:22

Sample ID: 17G1252-09

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	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		8/10/17 20:41
Decachlorobiphenyl [2]	77.6	30-150		8/10/17 20:41
Tetrachloro-m-xylene [1]	74.9	30-150		8/10/17 20:41
Tetrachloro-m-xylene [2]	75.5	30-150		8/10/17 20:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-2 Sampled: 7/26/2017 15:22

Sample ID: 17G1252-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	32	17	mg/Kg dry	1		CTDEP ETPH	8/7/17	8/7/17 19:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.9	50-150		8/7/17 19:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-2 Sampled: 7/26/2017 15:22

Sample ID: 17G1252-09

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	59.2		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-3 Sampled: 7/26/2017 15:24

Sample ID: 17G1252-10

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	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.0	30-150		8/10/17 20:59
Decachlorobiphenyl [2]	53.6	30-150		8/10/17 20:59
Tetrachloro-m-xylene [1]	54.9	30-150		8/10/17 20:59
Tetrachloro-m-xylene [2]	54.8	30-150		8/10/17 20:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-3 Sampled: 7/26/2017 15:24

Sample ID: 17G1252-10

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	55.2		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-1 Sampled: 7/26/2017 15:34

Sample ID: 17G1252-11

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	8/3/17	8/10/17 21:16	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.8	30-150		8/10/17 21:16
Decachlorobiphenyl [2]	64.7	30-150		8/10/17 21:16
Tetrachloro-m-xylene [1]	67.9	30-150		8/10/17 21:16
Tetrachloro-m-xylene [2]	68.7	30-150		8/10/17 21:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-1 Sampled: 7/26/2017 15:34

Sample ID: 17G1252-11

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	89.1		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-2 Sampled: 7/26/2017 15:35

Sample ID: 17G1252-12

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	8/3/17	8/10/17 21:34	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.9	30-150		8/10/17 21:34
Decachlorobiphenyl [2]	93.5	30-150		8/10/17 21:34
Tetrachloro-m-xylene [1]	88.0	30-150		8/10/17 21:34
Tetrachloro-m-xylene [2]	90.3	30-150		8/10/17 21:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-2 Sampled: 7/26/2017 15:35

Sample ID: 17G1252-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3A Sampled: 7/26/2017 15:36

Sample ID: 17G1252-13

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	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		8/10/17 21:52
Decachlorobiphenyl [2]	78.6	30-150		8/10/17 21:52
Tetrachloro-m-xylene [1]	74.1	30-150		8/10/17 21:52
Tetrachloro-m-xylene [2]	75.0	30-150		8/10/17 21:52

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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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3A Sampled: 7/26/2017 15:36

Sample ID: 17G1252-13

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	76.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3B Sampled: 7/26/2017 15:37

Sample ID: 17G1252-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	60	14	mg/Kg dry	1		CTDEP ETPH	8/7/17	8/7/17 21:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.6	50-150		8/7/17 21:57

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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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3B Sampled: 7/26/2017 15:37

Sample ID: 17G1252-14

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	69.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-1 Sampled: 7/27/2017 09:12

Sample ID: 17G1252-15

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	8/3/17	8/10/17 22:09	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1260 [1]	0.12	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.2	30-150		8/10/17 22:09
Decachlorobiphenyl [2]	69.9	30-150		8/10/17 22:09
Tetrachloro-m-xylene [1]	73.8	30-150		8/10/17 22:09
Tetrachloro-m-xylene [2]	73.5	30-150		8/10/17 22:09

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-1 Sampled: 7/27/2017 09:12

Sample ID: 17G1252-15

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	94.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-2 Sampled: 7/27/2017 09:13

Sample ID: 17G1252-16

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	8/3/17	8/10/17 22:27	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.2	30-150		8/10/17 22:27
Decachlorobiphenyl [2]	93.2	30-150		8/10/17 22:27
Tetrachloro-m-xylene [1]	92.3	30-150		8/10/17 22:27
Tetrachloro-m-xylene [2]	95.3	30-150		8/10/17 22:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-2 Sampled: 7/27/2017 09:13

Sample ID: 17G1252-16

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	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-3 Sampled: 7/27/2017 09:14

Sample ID: 17G1252-17

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	8/3/17	8/10/17 22:44	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.9	30-150		8/10/17 22:44
Decachlorobiphenyl [2]	88.9	30-150		8/10/17 22:44
Tetrachloro-m-xylene [1]	88.7	30-150		8/10/17 22:44
Tetrachloro-m-xylene [2]	92.1	30-150		8/10/17 22:44

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-3 Sampled: 7/27/2017 09:14

Sample ID: 17G1252-17

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	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4A Sampled: 7/27/2017 09:15

Sample ID: 17G1252-18

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	8/3/17	8/10/17 23:02	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.9	30-150		8/10/17 23:02
Decachlorobiphenyl [2]	59.2	30-150		8/10/17 23:02
Tetrachloro-m-xylene [1]	66.5	30-150		8/10/17 23:02
Tetrachloro-m-xylene [2]	66.6	30-150		8/10/17 23:02

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4A Sampled: 7/27/2017 09:15

Sample ID: 17G1252-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4B Sampled: 7/27/2017 09:16

Sample ID: 17G1252-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	780	250	mg/Kg dry	10		CTDEP ETPH	8/7/17	8/7/17 21:39	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.9	50-150		8/7/17 21:39

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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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4B Sampled: 7/27/2017 09:16

Sample ID: 17G1252-19

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	80.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-19-1 Sampled: 7/27/2017 09:04

Sample ID: 17G1252-20

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	8/3/17	8/10/17 23:20	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1260 [2]	0.18	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	48.2	30-150		8/10/17 23:20
Decachlorobiphenyl [2]	52.9	30-150		8/10/17 23:20
Tetrachloro-m-xylene [1]	63.8	30-150		8/10/17 23:20
Tetrachloro-m-xylene [2]	62.4	30-150		8/10/17 23:20

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-19-1 Sampled: 7/27/2017 09:04

Sample ID: 17G1252-20

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	95.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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
17G1252-07 [WS-AOC-13-SO-14-3B]	B183288	30.0	1.00	08/03/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-02RE1 [WS-AOC-13-SO-16-2]	B183484	30.0	1.00	08/07/17
17G1252-09RE1 [WS-AOC-13-SO-15-2]	B183484	30.0	1.00	08/07/17
17G1252-14RE1 [WS-AOC-13-SO-12-3B]	B183484	30.0	1.00	08/07/17
17G1252-19RE1 [WS-AOC-13-SO-20-4B]	B183484	30.0	2.00	08/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1252-01 [WS-AOC-13-SO-16-1]	B183218	08/03/17
17G1252-02 [WS-AOC-13-SO-16-2]	B183218	08/03/17
17G1252-03 [WS-AOC-13-SO-16-3]	B183218	08/03/17
17G1252-04 [WS-AOC-13-SO-14-1]	B183218	08/03/17
17G1252-05 [WS-AOC-13-SO-14-2]	B183218	08/03/17
17G1252-06 [WS-AOC-13-SO-14-3A]	B183218	08/03/17
17G1252-07 [WS-AOC-13-SO-14-3B]	B183218	08/03/17
17G1252-08 [WS-AOC-13-SO-15-1]	B183218	08/03/17
17G1252-09 [WS-AOC-13-SO-15-2]	B183218	08/03/17
17G1252-10 [WS-AOC-13-SO-15-3]	B183218	08/03/17
17G1252-11 [WS-AOC-13-SO-12-1]	B183218	08/03/17
17G1252-12 [WS-AOC-13-SO-12-2]	B183218	08/03/17
17G1252-13 [WS-AOC-13-SO-12-3A]	B183218	08/03/17
17G1252-14 [WS-AOC-13-SO-12-3B]	B183218	08/03/17
17G1252-15 [WS-AOC-13-SO-20-1]	B183218	08/03/17
17G1252-16 [WS-AOC-13-SO-20-2]	B183218	08/03/17
17G1252-17 [WS-AOC-13-SO-20-3]	B183218	08/03/17
17G1252-18 [WS-AOC-13-SO-20-4A]	B183218	08/03/17
17G1252-19 [WS-AOC-13-SO-20-4B]	B183218	08/03/17
17G1252-20 [WS-AOC-13-SO-19-1]	B183218	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-02 [WS-AOC-13-SO-16-2]	B183203	0.994	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-02 [WS-AOC-13-SO-16-2]	B183214	0.591	50.0	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-01 [WS-AOC-13-SO-16-1]	B183279	10.4	10.0	08/03/17
17G1252-02 [WS-AOC-13-SO-16-2]	B183279	10.2	10.0	08/03/17

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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
17G1252-03 [WS-AOC-13-SO-16-3]	B183279	10.1	10.0	08/03/17
17G1252-04 [WS-AOC-13-SO-14-1]	B183279	10.0	10.0	08/03/17
17G1252-05 [WS-AOC-13-SO-14-2]	B183279	10.1	10.0	08/03/17
17G1252-06 [WS-AOC-13-SO-14-3A]	B183279	10.4	10.0	08/03/17
17G1252-08 [WS-AOC-13-SO-15-1]	B183279	10.0	10.0	08/03/17
17G1252-09 [WS-AOC-13-SO-15-2]	B183279	10.2	10.0	08/03/17
17G1252-10 [WS-AOC-13-SO-15-3]	B183279	10.0	10.0	08/03/17
17G1252-11 [WS-AOC-13-SO-12-1]	B183279	10.0	10.0	08/03/17
17G1252-12 [WS-AOC-13-SO-12-2]	B183279	10.0	10.0	08/03/17
17G1252-13 [WS-AOC-13-SO-12-3A]	B183279	10.3	10.0	08/03/17
17G1252-15 [WS-AOC-13-SO-20-1]	B183279	10.1	10.0	08/03/17
17G1252-16 [WS-AOC-13-SO-20-2]	B183279	10.1	10.0	08/03/17
17G1252-17 [WS-AOC-13-SO-20-3]	B183279	10.0	10.0	08/03/17
17G1252-18 [WS-AOC-13-SO-20-4A]	B183279	10.1	10.0	08/03/17
17G1252-20 [WS-AOC-13-SO-19-1]	B183279	10.1	10.0	08/03/17

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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 B183279 - SW-846 3540C										
Blank (B183279-BLK1)				Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg wet	0.200		99.2	30-150			
LCS (B183279-BS1)				Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.23	0.020	mg/Kg wet	0.200		113	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.8	40-140			
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		91.9	30-150			
LCS Dup (B183279-BSD1)				Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.7	40-140	16.5	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.3	40-140	1.26	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.0	40-140	3.98	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.5	40-140	3.03	30	
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.0	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 B183279 - SW-846 3540C										
Matrix Spike (B183279-MS1)		**Source: 17G1252-10**		Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.38	0.18	mg/Kg dry	0.359	ND	107	40-140			
Aroclor-1016 [2C]	0.36	0.18	mg/Kg dry	0.359	ND	101	40-140			
Aroclor-1260	0.31	0.18	mg/Kg dry	0.359	ND	85.8	40-140			
Aroclor-1260 [2C]	0.30	0.18	mg/Kg dry	0.359	ND	83.4	40-140			
Surrogate: Decachlorobiphenyl	*0.265*		mg/Kg dry	0.359		73.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.272*		mg/Kg dry	0.359		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.293*		mg/Kg dry	0.359		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.302*		mg/Kg dry	0.359		84.3	30-150			
Matrix Spike Dup (B183279-MSD1)		**Source: 17G1252-10**		Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.39	0.18	mg/Kg dry	0.359	ND	109	40-140	1.97	50	
Aroclor-1016 [2C]	0.37	0.18	mg/Kg dry	0.359	ND	103	40-140	2.11	50	
Aroclor-1260	0.35	0.18	mg/Kg dry	0.359	ND	96.9	40-140	12.1	50	
Aroclor-1260 [2C]	0.32	0.18	mg/Kg dry	0.359	ND	90.1	40-140	7.75	50	
Surrogate: Decachlorobiphenyl	*0.273*		mg/Kg dry	0.359		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.301*		mg/Kg dry	0.359		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.281*		mg/Kg dry	0.359		78.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.285*		mg/Kg dry	0.359		79.3	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 B183288 - SW-846 3546										
Blank (B183288-BLK1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.20*		mg/Kg wet	3.33		66.1	50-150			
LCS (B183288-BS1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	20.8	10	mg/Kg wet	33.3		62.5	60-120			
Surrogate: o-Terphenyl	*2.15*		mg/Kg wet	3.33		64.6	50-150			
LCS Dup (B183288-BSD1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	22.7	10	mg/Kg wet	33.3		68.1	60-120	8.57	30	
Surrogate: o-Terphenyl	*2.38*		mg/Kg wet	3.33		71.3	50-150			
Batch B183484 - SW-846 3546										
Blank (B183484-BLK1)				Prepared & Analyzed: 08/07/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.57*		mg/Kg wet	3.33		77.0	50-150			
LCS (B183484-BS1)				Prepared & Analyzed: 08/07/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.7	60-120			
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.5	50-150			
LCS Dup (B183484-BSD1)				Prepared & Analyzed: 08/07/17						
CT ETPH	23.9	10	mg/Kg wet	33.3		71.6	60-120	1.43	30	
Surrogate: o-Terphenyl	*2.64*		mg/Kg wet	3.33		79.3	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 B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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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 B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	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 B183218 - % Solids										
Duplicate (B183218-DUP1)		**Source: 17G1252-08**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	34.2		% Wt		34.3			0.292	20	
Duplicate (B183218-DUP2)		**Source: 17G1252-09**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	67.2		% Wt		59.2			12.7	20	
Duplicate (B183218-DUP3)		**Source: 17G1252-10**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	54.4		% Wt		55.2			1.46	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-15-1

Lab Sample ID: 17G1252-08

Date(s) Analyzed: 08/10/2017 08/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.55	
	2	0.000	-0.030	0.030	0.74	29.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-19-1

Lab Sample ID: 17G1252-20

Date(s) Analyzed: 08/10/2017 08/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	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	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in 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

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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

1791252

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

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	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC13-SO-16-1	7/24/17	15:00		X	S	U	X				X				
2	WS-AOC13-SO-16-2		15:02					X				X				
3	WS-AOC13-SO-16-3		15:04					X								
4	WS-AOC13-SO-14-1		15:07					X								
5	WS-AOC13-SO-14-2		15:08					X								
6	WS-AOC13-SO-14-3A		15:09					X								
7	WS-AOC13-SO-14-3B		15:10							X						
8	WS-AOC13-SO-15-1		15:20					X								
9	WS-AOC13-SO-15-2		15:22					X								
10	WS-AOC13-SO-15-3		15:24					X								

WS-AOC-13-SO-16-2 ETPH per client request KS 7/31

WS-AOC-13-SO-15-2 ETPH per client request KS 7/31

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-AOC13-SO-15-3 (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] 7/27/17	1505
Received by: (signature) [signature]	Date/Time: 7/27/17 1505
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1995
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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17G1252

con-test ANALYTICAL LABORATORY

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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
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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	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-12-1	7/26/17	15:34		X	S	U	X								
12	WS-AOC13-SO-12-2	↓	15:35		↓	↓	↓	X								
13	WS-AOC13-SO-12-3A	↓	15:36		↓	↓	↓	X								
14	WS-AOC13-SO-12-3B	↓	15:37		↓	↓	↓			X						
15	WS-AOC13-SO-20-1	7/27/17	09:12		↓	↓	↓	X								
16	WS-AOC13-SO-20-2	↓	09:13		↓	↓	↓	X								
17	WS-AOC13-SO-20-3	↓	09:14		↓	↓	↓	X								
18	WS-AOC13-SO-20-4A	↓	09:15		↓	↓	↓	X								
19	WS-AOC13-SO-20-4B	↓	09:16		↓	↓	↓			X						
20	WS-AOC13-SO-19-1	↓	9:04		↓	↓	↓	X								

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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A = Amber Glass
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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] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature]	Date/Time: 7-27-17 7:45
Received by: (signature) [signature]	Date/Time: 7/27/17 1995
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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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 7/27/17 Time 1945

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
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~~ 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	2 3
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\A080617\A0806006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	396420	435896	-9
c - 10	1.64	401324	435896	-8
c - 12	2.37	415700	435896	-5
c - 14	3.04	427710	435896	-2
c - 16	3.65	441238	435896	1
c - 18	4.29	439544	435896	1
o-Terphenyl	4.57	487396	435896	
c - 20	4.89	449397	435896	3
c - 22	5.40	460053	435896	6
c - 24	5.84	432109	435896	-1
c - 26	6.23	457570	435896	5
c - 28	6.59	452358	435896	4
c - 30	6.93	450754	435896	3
c - 32	7.24	439754	435896	1
c - 34	7.54	441393	435896	1
c - 36	7.89	433119	435896	-1

* One compound allowed %D <= 50%

Samples

17G1252-02
17G1073-16@5X
17G1171-20@50X

D:\HPCHEM\1\DATA\A080617\A0806060.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806060.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	395677	432339	-8
c - 10	1.64	400720	432339	-7
c - 12	2.37	413483	432339	-4
c - 14	3.05	425031	432339	-2
c - 16	3.66	438429	432339	1
c - 18	4.29	436657	432339	1
o-Terphenyl	4.57	485024	432339	
c - 20	4.89	444922	432339	3
c - 22	5.40	454087	432339	5
c - 24	5.84	425652	432339	-2
c - 26	6.24	450486	432339	4
c - 28	6.60	446427	432339	3
c - 30	6.93	446559	432339	3
c - 32	7.24	437863	432339	1
c - 34	7.54	438057	432339	1
c - 36	7.89	431036	432339	0

* One compound allowed %D </= 50%

Samples

17G1252-07@10X
17G1252-19@10X
17G1258-08@100X
17G1252-09
17G1258-04
17G1252-14

D:\HPCHEM\1\DATA\A080717\A0807048.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807048.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	413869	438678	-6
c - 10	1.64	427817	438678	-2
c - 12	2.37	442897	438678	1
c - 14	3.04	450884	438678	3
c - 16	3.65	460485	438678	5
c - 18	4.29	452368	438678	3
o-Terphenyl	4.57	493032	438678	
c - 20	4.89	453071	438678	3
c - 22	5.40	453851	438678	3
c - 24	5.84	418112	438678	-5
c - 26	6.23	437582	438678	0
c - 28	6.60	433678	438678	-1
c - 30	6.93	435063	438678	-1
c - 32	7.25	429774	438678	-2
c - 34	7.54	434901	438678	-1
c - 36	7.90	435822	438678	-1

* One compound allowed %D </= 50%

Samples

17H0210-01
17G1252-19RE1@10X
17G1307-14@5X

D:\HPCHEM\1\DATA\A080717.SEC\A0807049.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807049.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	560741	599900	-7
c - 10	1.63	580393	599900	-3
c - 12	2.34	599002	599900	0
c - 14	3.01	607792	599900	1
c - 16	3.61	620074	599900	3
c - 18	4.23	612161	599900	2
o-Terphenyl	4.51	684844	599900	
c - 20	4.83	621532	599900	4
c - 22	5.34	631356	599900	5
c - 24	5.77	589308	599900	-2
c - 26	6.17	619866	599900	3
c - 28	6.53	608853	599900	1
c - 30	6.86	604230	599900	1
c - 32	7.17	583955	599900	-3
c - 34	7.46	581396	599900	-3
c - 36	7.78	577841	599900	-4

* One compound allowed %D <= 50%

Samples

17G1252-02RE1
17G1252-09RE1
17H0269-01
17G1256-03@50X
17G1256-10@100X
17G1309-03
17G1307-08
17G1252-14RE1

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: 17G1252

Laboratory Sample ID(s):

17G1252-01 thru 17G1252-20

Sample Date(s):

07/26/2017,
07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, 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:** **08/11/17**

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 16, 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: 17G1254

Enclosed are results of analyses for samples received by the laboratory on July 27, 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: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1254

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-AOC13-SO-24-4B	17G1254-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-23-1A	17G1254-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-1B	17G1254-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-23-2	17G1254-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-3	17G1254-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-1	17G1254-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2A	17G1254-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2B	17G1254-08	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-1-3	17G1254-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-1	17G1254-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-2	17G1254-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3A	17G1254-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3B	17G1254-13	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-8-1	17G1254-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-2	17G1254-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-3	17G1254-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4A	17G1254-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4B	17G1254-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-4-1	17G1254-19	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.

CTDEP ETPH

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1254-08[WS-AOC7-SO-1-2B]

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
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Decachlorobiphenyl [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

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	8/3/17	8/5/17 15:09	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	46.0	30-130		8/5/17 15:09
2-Fluorobiphenyl	57.9	30-130		8/5/17 15:09
p-Terphenyl-d14	67.7	30-130		8/5/17 15:09

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

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	88.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

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	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1260 [1]	1.5	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		8/15/17 7:51
Decachlorobiphenyl [2]	88.7	30-150		8/15/17 7:51
Tetrachloro-m-xylene [1]	85.3	30-150		8/15/17 7:51
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 7:51

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

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	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Chromium	7.5	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Copper	150	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Lead	72	0.78	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Mercury	0.081	0.026	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:09	TJK
Nickel	12	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Vanadium	45	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Zinc	81	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

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	92.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

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	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1260 [2]	3.6	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/15/17 8:03
Decachlorobiphenyl [2]	84.3	30-150		8/15/17 8:03
Tetrachloro-m-xylene [1]	63.2	30-150		8/15/17 8:03
Tetrachloro-m-xylene [2]	68.3	30-150		8/15/17 8:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

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	84.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

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	8/4/17	8/14/17 23:48	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1260 [1]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.0	30-150		8/14/17 23:48
Decachlorobiphenyl [2]	101	30-150		8/14/17 23:48
Tetrachloro-m-xylene [1]	82.6	30-150		8/14/17 23:48
Tetrachloro-m-xylene [2]	89.0	30-150		8/14/17 23:48

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

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	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

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	8/4/17	8/15/17 0:05	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1260 [2]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/15/17 0:05
Decachlorobiphenyl [2]	75.5	30-150		8/15/17 0:05
Tetrachloro-m-xylene [1]	74.7	30-150		8/15/17 0:05
Tetrachloro-m-xylene [2]	80.3	30-150		8/15/17 0:05

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

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	8/4/17	8/15/17 0:22	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/15/17 0:22
Decachlorobiphenyl [2]	82.4	30-150		8/15/17 0:22
Tetrachloro-m-xylene [1]	77.7	30-150		8/15/17 0:22
Tetrachloro-m-xylene [2]	85.7	30-150		8/15/17 0:22

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

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	94.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	500	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 21:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

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	80.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

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	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1254 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1260 [1]	24	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:15
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:15

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

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	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

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	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1260 [1]	12	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

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	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1260 [1]	8.2	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:39
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

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	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

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	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1260 [1]	10	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:51
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

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	82.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 22:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.1	50-150		8/4/17 22:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

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	84.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

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	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1260 [1]	5.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:04
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:04

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

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	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1260 [1]	44	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:16
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

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	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

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	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1221 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1232 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1242 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1248 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1254 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1260 [1]	17	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1262 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1268 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:28
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

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	88.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

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	8/4/17	8/15/17 9:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1260 [1]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/15/17 9:40
Decachlorobiphenyl [2]	88.5	30-150		8/15/17 9:40
Tetrachloro-m-xylene [1]	86.6	30-150		8/15/17 9:40
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 9:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

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	81.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	13	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.8	50-150		8/4/17 23:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Barium	12	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Chromium	6.7	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Copper	7.5	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Lead	7.5	0.90	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Mercury	ND	0.31	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:11	TJK
Nickel	160	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Vanadium	110	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Zinc	63	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

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	79.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

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	8/4/17	8/15/17 3:44	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.7	30-150		8/15/17 3:44
Decachlorobiphenyl [2]	87.0	30-150		8/15/17 3:44
Tetrachloro-m-xylene [1]	86.8	30-150		8/15/17 3:44
Tetrachloro-m-xylene [2]	94.0	30-150		8/15/17 3:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

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	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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
17G1254-08 [WS-AOC7-SO-1-2B]	B183209	30.0	2.00	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183209	30.0	1.00	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183218	08/03/17
17G1254-02 [WS-AOC13-SO-23-1A]	B183218	08/03/17
17G1254-03 [WS-AOC13-SO-23-1B]	B183218	08/03/17
17G1254-04 [WS-AOC13-SO-23-2]	B183218	08/03/17
17G1254-05 [WS-AOC13-SO-23-3]	B183218	08/03/17
17G1254-06 [WS-AOC7-SO-1-1]	B183218	08/03/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183218	08/03/17
17G1254-08 [WS-AOC7-SO-1-2B]	B183218	08/03/17
17G1254-09 [WS-AOC7-SO-1-3]	B183218	08/03/17
17G1254-10 [WS-AOC7-SO-7-1]	B183218	08/03/17
17G1254-11 [WS-AOC7-SO-7-2]	B183218	08/03/17
17G1254-12 [WS-AOC7-SO-7-3A]	B183218	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183218	08/03/17
17G1254-14 [WS-AOC7-SO-8-1]	B183218	08/03/17
17G1254-15 [WS-AOC7-SO-8-2]	B183218	08/03/17
17G1254-16 [WS-AOC7-SO-8-3]	B183218	08/03/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183218	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183218	08/03/17
17G1254-19 [WS-AOC7-SO-4-1]	B183218	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183203	1.03	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183203	1.05	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183214	0.620	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183214	0.0605	50.0	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-02 [WS-AOC13-SO-23-1A]	B183351	10.0	10.0	08/04/17
17G1254-04 [WS-AOC13-SO-23-2]	B183351	10.0	10.0	08/04/17
17G1254-05 [WS-AOC13-SO-23-3]	B183351	10.0	10.0	08/04/17
17G1254-06 [WS-AOC7-SO-1-1]	B183351	10.0	10.0	08/04/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183351	10.0	10.0	08/04/17
17G1254-09 [WS-AOC7-SO-1-3]	B183351	10.0	10.0	08/04/17
17G1254-10 [WS-AOC7-SO-7-1]	B183351	10.0	10.0	08/04/17
17G1254-11 [WS-AOC7-SO-7-2]	B183351	10.0	10.0	08/04/17

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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
17G1254-12 [WS-AOC7-SO-7-3A]	B183351	10.0	10.0	08/04/17
17G1254-14 [WS-AOC7-SO-8-1]	B183351	10.0	10.0	08/04/17
17G1254-15 [WS-AOC7-SO-8-2]	B183351	10.0	10.0	08/04/17
17G1254-16 [WS-AOC7-SO-8-3]	B183351	10.0	10.0	08/04/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183351	10.0	10.0	08/04/17
17G1254-19 [WS-AOC7-SO-4-1]	B183351	10.0	10.0	08/04/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183204	30.0	1.00	08/03/17

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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 B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
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	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	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 B183351 - SW-846 3540C										
Blank (B183351-BLK1)				Prepared: 08/04/17 Analyzed: 08/14/17						
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	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.6	30-150			
LCS (B183351-BS1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
LCS Dup (B183351-BSD1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.5	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.6	40-140	0.260	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.4	40-140	0.315	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140	0.476	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Matrix Spike (B183351-MS1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.30	0.12	mg/Kg dry	0.244	ND	121	40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.244	ND	129	40-140			
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	46.3	40-140			
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	46.8	40-140			
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.244		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.244		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.244		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.244		97.7	30-150			
Matrix Spike Dup (B183351-MSD1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.32	0.12	mg/Kg dry	0.244	ND	132	40-140	8.34	50	
Aroclor-1016 [2C]	0.31	0.12	mg/Kg dry	0.244	ND	126	40-140	2.73	50	
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	53.6	40-140	1.52	50	
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	58.6	40-140	2.45	50	
Surrogate: Decachlorobiphenyl	*0.236*		mg/Kg dry	0.244		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.244*		mg/Kg dry	0.244		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.244		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.236*		mg/Kg dry	0.244		96.9	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 B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	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 B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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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 B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	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 B183218 - % Solids										
Duplicate (B183218-DUP4)		**Source: 17G1254-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	85.8		% Wt		84.5			1.53	20	
Duplicate (B183218-DUP5)		**Source: 17G1254-05**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	81.1		% Wt		82.0			1.10	20	
Duplicate (B183218-DUP6)		**Source: 17G1254-06**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	94.6		% Wt		94.0			0.636	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-1A

Lab Sample ID: 17G1254-02

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.5	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-2

Lab Sample ID: 17G1254-04

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	3.4	
	2	0.000	-0.030	0.030	3.6	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-3

Lab Sample ID: 17G1254-05

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.0	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-1

Lab Sample ID: 17G1254-06

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-3

Lab Sample ID: 17G1254-09

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	24	
	2	0.000	-0.030	0.030	24	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-1

Lab Sample ID: 17G1254-10

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	12	
	2	0.000	-0.030	0.030	12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-2

Lab Sample ID: 17G1254-11

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	8.2	
	2	0.000	-0.030	0.030	7.7	6.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-3A

Lab Sample ID: 17G1254-12

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	10	
	2	0.000	-0.030	0.030	9.7	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-1

Lab Sample ID: 17G1254-14

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.5	
	2	0.000	-0.030	0.030	5.3	3.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-2

Lab Sample ID: 17G1254-15

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	44	
	2	0.000	-0.030	0.030	43	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-3

Lab Sample ID: 17G1254-16

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-4A

Lab Sample ID: 17G1254-17

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183351-BS1

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183351-BSD1 Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1): Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
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: B183351-MS1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.32	6.5
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183351-MSD1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	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.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 8270D in Water	
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

17G1254

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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	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
	~~WS-AOC13-SO-23-1A~~															
1	WS-AOC13-SO-24-4B	7/27/17	9:52		X	S	U		X							
2	WS-AOC13-SO-23-1A		10:00					X	~~X~~							
3	WS-AOC13-SO-23-1B		10:02					~~X~~				X				
4	WS-AOC13-SO-23-2		10:04					X	~~X~~							
5	WS-AOC13-SO-23-3		10:05					X	~~X~~							
6	WS-AOC7-SO-1-1		10:30					X								
7	WS-AOC7-SO-1-2A		10:32					X								
8	WS-AOC7-SO-1-2B		10:34							X						
9	WS-AOC7-SO-1-3		10:36					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:**
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-AOC13-SO-23-3 (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] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1985
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

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	Coplanar PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC7-SO-7-1	7/27/17	10:37		X	S	U	X													
11	WS-AOC7-SO-7-2		10:38					X													
12	WS-AOC7-SO-7-3A		10:39					X													
13	WS-AOC7-SO-7-3B		10:40							X											
14	WS-AOC7-SO-8-1		10:53					X													
15	WS-AOC7-SO-8-2		10:54					X													
16	WS-AOC7-SO-8-3		10:55					X													
17	WS-AOC7-SO-8-4A		10:56					X													
18	WS-AOC7-SO-8-4B		10:57							X		X									
19	WS-AOC7-SO-4-1		11:06					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
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S = Soil/Solid
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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:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1945
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 7/27/17 Time 1945

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
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~~ T (JM)
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\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

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: 17G1254

Laboratory Sample ID(s):

17G1254-01 thru 17G1254-19

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, 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:** **08/16/17**

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 11, 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: 17G1253

Enclosed are results of analyses for samples received by the laboratory on July 27, 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: 8/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1253

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-AOC13-SO-19-2	17G1253-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-19-3	17G1253-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-19-4A	17G1253-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-19-4B	17G1253-04	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-25-1	17G1253-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-2	17G1253-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-3	17G1253-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-4A	17G1253-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-4B	17G1253-09	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC13-SO-22-1	17G1253-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-22-2	17G1253-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-22-3	17G1253-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-21-1A	17G1253-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-21-1B	17G1253-14	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-21-2	17G1253-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-21-3	17G1253-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-1	17G1253-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-2	17G1253-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-3	17G1253-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-4A	17G1253-20	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 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1253-09[WS-AOC13-SO-25-4B]

SW-846 8082A

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260
B183336-MS1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

Aroclor-1016
B183336-MSD1

Aroclor-1016 [2C]
B183336-MSD1

S-01

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

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

Decachlorobiphenyl [2C]
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

Tetrachloro-m-xylene
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

Tetrachloro-m-xylene [2C]
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

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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: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-2 Sampled: 7/27/2017 09:06

Sample ID: 17G1253-01

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	8/4/17	8/7/17 12:15	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1260 [1]	1.1	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.8	30-150		8/7/17 12:15
Decachlorobiphenyl [2]	94.8	30-150		8/7/17 12:15
Tetrachloro-m-xylene [1]	97.8	30-150		8/7/17 12:15
Tetrachloro-m-xylene [2]	97.7	30-150		8/7/17 12:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-2 Sampled: 7/27/2017 09:06

Sample ID: 17G1253-01

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	93.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-3 Sampled: 7/27/2017 09:08

Sample ID: 17G1253-02

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	8/4/17	8/7/17 12:28	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1260 [1]	0.63	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.8	30-150		8/7/17 12:28
Decachlorobiphenyl [2]	87.4	30-150		8/7/17 12:28
Tetrachloro-m-xylene [1]	91.3	30-150		8/7/17 12:28
Tetrachloro-m-xylene [2]	91.9	30-150		8/7/17 12:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-3 Sampled: 7/27/2017 09:08

Sample ID: 17G1253-02

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	92.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4A Sampled: 7/27/2017 09:10

Sample ID: 17G1253-03

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	8/4/17	8/7/17 12:41	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		8/7/17 12:41
Decachlorobiphenyl [2]	92.3	30-150		8/7/17 12:41
Tetrachloro-m-xylene [1]	88.5	30-150		8/7/17 12:41
Tetrachloro-m-xylene [2]	86.6	30-150		8/7/17 12:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4A Sampled: 7/27/2017 09:10

Sample ID: 17G1253-03

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	74.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4B Sampled: 7/27/2017 09:12

Sample ID: 17G1253-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Arsenic	37	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Barium	36	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Cadmium	0.63	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Chromium	22	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Copper	200	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Lead	280	0.85	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Mercury	0.26	0.031	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:07	TJK
Nickel	25	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Vanadium	110	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Zinc	160	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4B Sampled: 7/27/2017 09:12

Sample ID: 17G1253-04

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	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-1 Sampled: 7/27/2017 09:25

Sample ID: 17G1253-05

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	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1221 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1232 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1242 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1248 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1254 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1260 [1]	38	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1262 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1268 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 8:55
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 8:55
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 8:55
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 8:55

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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: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-1 Sampled: 7/27/2017 09:25

Sample ID: 17G1253-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-2 Sampled: 7/27/2017 09:26

Sample ID: 17G1253-06

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	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1260 [1]	120	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG

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

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-2 Sampled: 7/27/2017 09:26

Sample ID: 17G1253-06

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	91.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-3 Sampled: 7/27/2017 09:27

Sample ID: 17G1253-07

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	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1221 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1232 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1242 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1248 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1254 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1260 [1]	220	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1262 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1268 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG

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

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-3 Sampled: 7/27/2017 09:27

Sample ID: 17G1253-07

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	93.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4A Sampled: 7/27/2017 09:28

Sample ID: 17G1253-08

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	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1221 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1232 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1242 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1248 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1254 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1260 [1]	5.2	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1262 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1268 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/11/17 9:13
Decachlorobiphenyl [2]	86.5	30-150		8/11/17 9:13
Tetrachloro-m-xylene [1]	76.9	30-150		8/11/17 9:13
Tetrachloro-m-xylene [2]	81.2	30-150		8/11/17 9:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4A Sampled: 7/27/2017 09:28

Sample ID: 17G1253-08

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	87.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4B Sampled: 7/27/2017 09:29

Sample ID: 17G1253-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1200	230	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/7/17 13:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/7/17 13:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4B Sampled: 7/27/2017 09:29

Sample ID: 17G1253-09

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	88.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-1 Sampled: 7/27/2017 09:40

Sample ID: 17G1253-10

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	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1221 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1232 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1242 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1248 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1254 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1260 [1]	18	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1262 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1268 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 9:48
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 9:48
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 9:48
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 9:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-1 Sampled: 7/27/2017 09:40

Sample ID: 17G1253-10

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	93.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-2 Sampled: 7/27/2017 09:42

Sample ID: 17G1253-11

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	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1260 [1]	9.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:01
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:01
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:01
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-2 Sampled: 7/27/2017 09:42

Sample ID: 17G1253-11

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	91.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-3 Sampled: 7/27/2017 09:44

Sample ID: 17G1253-12

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	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1260 [1]	17	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:14
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:14
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:14
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-3 Sampled: 7/27/2017 09:44

Sample ID: 17G1253-12

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	85.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1A Sampled: 7/27/2017 09:30

Sample ID: 17G1253-13

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	8/4/17	8/7/17 15:35	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		8/7/17 15:35
Decachlorobiphenyl [2]	94.7	30-150		8/7/17 15:35
Tetrachloro-m-xylene [1]	97.6	30-150		8/7/17 15:35
Tetrachloro-m-xylene [2]	99.2	30-150		8/7/17 15:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1A Sampled: 7/27/2017 09:30

Sample ID: 17G1253-13

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	87.3		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	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: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1B Sampled: 7/27/2017 09:32

Sample ID: 17G1253-14

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	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Acenaphthylene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Anthracene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(a)anthracene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(a)pyrene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(b)fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(g,h,i)perylene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(k)fluoranthene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Chrysene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Dibenz(a,h)anthracene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Fluoranthene	3.6	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Naphthalene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Phenanthrene	1.4	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Pyrene	3.5	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.6	30-130		8/5/17 20:44
2-Fluorobiphenyl	61.6	30-130		8/5/17 20:44
p-Terphenyl-d14	69.8	30-130		8/5/17 20:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1B Sampled: 7/27/2017 09:32

Sample ID: 17G1253-14

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	89.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-2 Sampled: 7/27/2017 09:34

Sample ID: 17G1253-15

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	8/4/17	8/7/17 15:53	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1260 [1]	0.46	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/7/17 15:53
Decachlorobiphenyl [2]	96.3	30-150		8/7/17 15:53
Tetrachloro-m-xylene [1]	97.0	30-150		8/7/17 15:53
Tetrachloro-m-xylene [2]	97.7	30-150		8/7/17 15:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-2 Sampled: 7/27/2017 09:34

Sample ID: 17G1253-15

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	91.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-3 Sampled: 7/27/2017 09:36

Sample ID: 17G1253-16

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	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		8/7/17 16:11
Decachlorobiphenyl [2]	103	30-150		8/7/17 16:11
Tetrachloro-m-xylene [1]	91.1	30-150		8/7/17 16:11
Tetrachloro-m-xylene [2]	93.3	30-150		8/7/17 16:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-3 Sampled: 7/27/2017 09:36

Sample ID: 17G1253-16

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	84.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-1 Sampled: 7/27/2017 09:48

Sample ID: 17G1253-17

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	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1221 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1232 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1242 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1248 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1254 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1260 [1]	72	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1262 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1268 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-1 Sampled: 7/27/2017 09:48

Sample ID: 17G1253-17

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	77.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-2 Sampled: 7/27/2017 09:49

Sample ID: 17G1253-18

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	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1221 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1232 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1242 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1248 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1254 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1260 [1]	17	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1262 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1268 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:40
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:40
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:40
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-2 Sampled: 7/27/2017 09:49

Sample ID: 17G1253-18

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	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-3 Sampled: 7/27/2017 09:50

Sample ID: 17G1253-19

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	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1221 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1232 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1242 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1248 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1254 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1260 [1]	13	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1262 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1268 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:54
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:54
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:54
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-3 Sampled: 7/27/2017 09:50

Sample ID: 17G1253-19

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	91.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4A Sampled: 7/27/2017 09:51

Sample ID: 17G1253-20

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	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1260 [2]	4.8	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 11:06
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 11:06
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 11:06
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 11:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4A Sampled: 7/27/2017 09:51

Sample ID: 17G1253-20

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	84.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	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
17G1253-09 [WS-AOC13-SO-25-4B]	B183288	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1253-01 [WS-AOC13-SO-19-2]	B183217	08/03/17
17G1253-02 [WS-AOC13-SO-19-3]	B183217	08/03/17
17G1253-03 [WS-AOC13-SO-19-4A]	B183217	08/03/17
17G1253-04 [WS-AOC13-SO-19-4B]	B183217	08/03/17
17G1253-05 [WS-AOC13-SO-25-1]	B183217	08/03/17
17G1253-06 [WS-AOC13-SO-25-2]	B183217	08/03/17
17G1253-07 [WS-AOC13-SO-25-3]	B183217	08/03/17
17G1253-08 [WS-AOC13-SO-25-4A]	B183217	08/03/17
17G1253-09 [WS-AOC13-SO-25-4B]	B183217	08/03/17
17G1253-10 [WS-AOC13-SO-22-1]	B183217	08/03/17
17G1253-11 [WS-AOC13-SO-22-2]	B183217	08/03/17
17G1253-12 [WS-AOC13-SO-22-3]	B183217	08/03/17
17G1253-13 [WS-AOC13-SO-21-1A]	B183217	08/03/17
17G1253-14 [WS-AOC13-SO-21-1B]	B183217	08/03/17
17G1253-15 [WS-AOC13-SO-21-2]	B183217	08/03/17
17G1253-16 [WS-AOC13-SO-21-3]	B183217	08/03/17
17G1253-17 [WS-AOC13-SO-24-1]	B183217	08/03/17
17G1253-18 [WS-AOC13-SO-24-2]	B183217	08/03/17
17G1253-19 [WS-AOC13-SO-24-3]	B183217	08/03/17
17G1253-20 [WS-AOC13-SO-24-4A]	B183217	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-04 [WS-AOC13-SO-19-4B]	B183203	1.08	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-04 [WS-AOC13-SO-19-4B]	B183214	0.594	50.0	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-01 [WS-AOC13-SO-19-2]	B183336	10.0	10.0	08/04/17
17G1253-02 [WS-AOC13-SO-19-3]	B183336	10.0	10.0	08/04/17
17G1253-03 [WS-AOC13-SO-19-4A]	B183336	10.0	10.0	08/04/17
17G1253-05 [WS-AOC13-SO-25-1]	B183336	10.0	10.0	08/04/17
17G1253-06 [WS-AOC13-SO-25-2]	B183336	10.0	10.0	08/04/17
17G1253-07 [WS-AOC13-SO-25-3]	B183336	10.0	10.0	08/04/17
17G1253-10 [WS-AOC13-SO-22-1]	B183336	10.0	10.0	08/04/17
17G1253-11 [WS-AOC13-SO-22-2]	B183336	10.0	10.0	08/04/17
17G1253-12 [WS-AOC13-SO-22-3]	B183336	10.0	10.0	08/04/17
17G1253-13 [WS-AOC13-SO-21-1A]	B183336	10.0	10.0	08/04/17
17G1253-15 [WS-AOC13-SO-21-2]	B183336	10.0	10.0	08/04/17

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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
17G1253-16 [WS-AOC13-SO-21-3]	B183336	10.0	10.0	08/04/17
17G1253-17 [WS-AOC13-SO-24-1]	B183336	10.0	10.0	08/04/17
17G1253-18 [WS-AOC13-SO-24-2]	B183336	10.0	10.0	08/04/17
17G1253-19 [WS-AOC13-SO-24-3]	B183336	10.0	10.0	08/04/17
17G1253-20 [WS-AOC13-SO-24-4A]	B183336	10.0	10.0	08/04/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-08RE1 [WS-AOC13-SO-25-4A]	B183697	10.0	10.0	08/09/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-14 [WS-AOC13-SO-21-1B]	B183212	30.0	1.00	08/03/17

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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 B183212 - SW-846 3546										
Blank (B183212-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
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	*2.12*		mg/Kg wet	3.33		63.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/Kg wet	3.33		59.9	30-130			
Surrogate: p-Terphenyl-d14	*2.26*		mg/Kg wet	3.33		67.7	30-130			
LCS (B183212-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
Acenaphthylene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140			
Benzo(a)anthracene	0.975	0.17	mg/Kg wet	1.67		58.5	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Benzo(g,h,i)perylene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140			
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Chrysene	0.924	0.17	mg/Kg wet	1.67		55.5	40-140			
Dibenz(a,h)anthracene	1.00	0.17	mg/Kg wet	1.67		60.0	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140			
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Naphthalene	0.979	0.17	mg/Kg wet	1.67		58.7	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Pyrene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Surrogate: Nitrobenzene-d5	*2.52*		mg/Kg wet	3.33		75.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.32*		mg/Kg wet	3.33		69.5	30-130			
Surrogate: p-Terphenyl-d14	*2.35*		mg/Kg wet	3.33		70.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183212 - SW-846 3546										
LCS Dup (B183212-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140	1.92	30	
Acenaphthylene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140	3.23	30	
Anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	1.21	30	
Benzo(a)anthracene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140	2.21	30	
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140	0.960	30	
Benzo(b)fluoranthene	0.956	0.17	mg/Kg wet	1.67		57.3	40-140	2.48	30	
Benzo(g,h,i)perylene	0.972	0.17	mg/Kg wet	1.67		58.3	40-140	1.13	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	3.80	30	
Chrysene	0.897	0.17	mg/Kg wet	1.67		53.8	40-140	2.96	30	
Dibenz(a,h)anthracene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140	2.02	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140	2.18	30	
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	1.81	30	
Indeno(1,2,3-cd)pyrene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	0.798	30	
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	1.72	30	
Naphthalene	0.977	0.17	mg/Kg wet	1.67		58.6	40-140	0.205	30	
Phenanthrene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	1.61	30	
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	3.85	30	
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.33		68.6	30-130			
Surrogate: p-Terphenyl-d14	*2.23*		mg/Kg wet	3.33		67.0	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 B183336 - SW-846 3540C										
Blank (B183336-BLK1)				Prepared: 08/04/17 Analyzed: 08/07/17						
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	*0.232*		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.5	30-150			
LCS (B183336-BS1)				Prepared: 08/04/17 Analyzed: 08/07/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.2	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.9	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.3	40-140			
Surrogate: Decachlorobiphenyl	*0.187*		mg/Kg wet	0.200		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg wet	0.200		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		81.0	30-150			
LCS Dup (B183336-BSD1)				Prepared: 08/04/17 Analyzed: 08/07/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	1.44	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.7	40-140	0.632	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.2	40-140	2.14	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	1.57	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.6	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 B183336 - SW-846 3540C											
Matrix Spike (B183336-MS1)		**Source: 17G1253-01**		Prepared: 08/04/17 Analyzed: 08/07/17							
Aroclor-1016	0.24	0.11	mg/Kg dry	0.215	ND	113		40-140			
Aroclor-1016 [2C]	0.26	0.11	mg/Kg dry	0.215	ND	121		40-140			
Aroclor-1260	1.2	0.11	mg/Kg dry	0.215	1.1	**35.8**	*	40-140			MS-19
Aroclor-1260 [2C]	1.1	0.11	mg/Kg dry	0.215	0.99	42.6		40-140			
Surrogate: Decachlorobiphenyl	*0.206*		mg/Kg dry	0.215		96.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg dry	0.215		94.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.215		94.8		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg dry	0.215		96.6		30-150			
Matrix Spike Dup (B183336-MSD1)		**Source: 17G1253-01**		Prepared: 08/04/17 Analyzed: 08/07/17							
Aroclor-1016	0.34	0.11	mg/Kg dry	0.215	ND	**159**	*	40-140	33.3	50	MS-24
Aroclor-1016 [2C]	0.37	0.11	mg/Kg dry	0.215	ND	**172**	*	40-140	35.1	50	MS-24
Aroclor-1260	1.2	0.11	mg/Kg dry	0.215	1.1	52.9		40-140	3.09	50	
Aroclor-1260 [2C]	1.1	0.11	mg/Kg dry	0.215	0.99	71.0		40-140	5.50	50	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg dry	0.215		92.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg dry	0.215		89.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg dry	0.215		89.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg dry	0.215		91.9		30-150			
Batch B183697 - SW-846 3540C											
Blank (B183697-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17							
Aroclor-1016	ND	0.020	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1260	ND	0.020	mg/Kg wet								
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1262	ND	0.020	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1268	ND	0.020	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.219*		mg/Kg wet	0.200		110		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.5		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 B183697 - SW-846 3540C										
LCS (B183697-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.9	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.5	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.5	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		69.5	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.200		77.7	30-150			
LCS Dup (B183697-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	4.49	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.0	40-140	0.594	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.2	40-140	2.25	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		68.3	40-140	1.67	30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.158*		mg/Kg wet	0.200		79.1	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 B183288 - SW-846 3546										
Blank (B183288-BLK1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.20*		mg/Kg wet	3.33		66.1	50-150			
LCS (B183288-BS1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	20.8	10	mg/Kg wet	33.3		62.5	60-120			
Surrogate: o-Terphenyl	*2.15*		mg/Kg wet	3.33		64.6	50-150			
LCS Dup (B183288-BSD1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	22.7	10	mg/Kg wet	33.3		68.1	60-120	8.57	30	
Surrogate: o-Terphenyl	*2.38*		mg/Kg wet	3.33		71.3	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 B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	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 B183217 - % Solids										
Duplicate (B183217-DUP1)		**Source: 17G1253-01**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	92.0		% Wt		93.0			1.08	20	
Duplicate (B183217-DUP2)		**Source: 17G1253-02**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	91.8		% Wt		92.9			1.19	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-19-2

Lab Sample ID: 17G1253-01

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.99	10.5

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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-AOC13-SO-19-3

Lab Sample ID: 17G1253-02

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.63	
	2	0.000	-0.030	0.030	0.53	17.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-1

Lab Sample ID: 17G1253-05

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	38	
	2	0.000	-0.030	0.030	33	14.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-2

Lab Sample ID: 17G1253-06

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	120	
	2	0.000	-0.030	0.030	100	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-3

Lab Sample ID: 17G1253-07

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	220	
	2	0.000	-0.030	0.030	200	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-4A

Lab Sample ID: 17G1253-08RE1

Date(s) Analyzed: 08/11/2017 08/11/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.2	
	2	0.000	-0.030	0.030	5.1	1.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-22-1

Lab Sample ID: 17G1253-10

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	18	
	2	0.000	-0.030	0.030	17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-22-2

Lab Sample ID: 17G1253-11

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	9.5	
	2	0.000	-0.030	0.030	8.5	12.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-22-3

Lab Sample ID: 17G1253-12

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-21-2

Lab Sample ID: 17G1253-15

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.46	
	2	0.000	-0.030	0.030	0.45	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-1

Lab Sample ID: 17G1253-17

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	72	
	2	0.000	-0.030	0.030	68	7.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-2

Lab Sample ID: 17G1253-18

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-3

Lab Sample ID: 17G1253-19

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	13	
	2	0.000	-0.030	0.030	12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-4A

Lab Sample ID: 17G1253-20

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	4.7	
	2	0.000	-0.030	0.030	4.8	2.1

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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-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in 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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

con-test ANALYTICAL LABORATORY
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174 1253

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	Sonkel PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC13-SO-19-2	7/27/17	9:06		X	S	U	X								
2	WS-AOC13-SO-19-3	↓	9:08		↓	↓	↓	X								
3	WS-AOC13-SO-19-4A		9:10					X								
4	WS-AOC13-SO-19-4B		9:12									X				
5	WS-AOC13-SO-25-1		9:25					X								
6	WS-AOC13-SO-25-2		9:26					X								
7	WS-AOC13-SO-25-3		9:27					X								
8	WS-AOC13-SO-25-4A		9:28					X								
9	WS-AOC13-SO-25-4B		9:29							X						
10	WS-AOC13-SO-22-1	↓	9:40		↓	↓	↓	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] 7/27/17	1025
Received by: (signature)	Date/Time:
[signature]	7/27/17 1525
Relinquished by: (signature)	Date/Time:
[signature] 7-27-17	7:44
Received by: (signature)	Date/Time:
[signature] 7/27/17	1945
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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17G1253

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	PAHs	EtPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-22-2	7/27/17	9:42		X	S	U	X								
12	WS-AOC13-SO-22-3	↓	9:44		↓	↓	↓	X								
13	WS-AOC13-SO-21-1A		9:30					X								
14	WS-AOC13-SO-21-1B		9:32						X							
15	WS-AOC13-SO-21-2		9:34					X								
16	WS-AOC13-SO-21-3		9:36					X								
17	WS-AOC13-SO-24-1		9:48					X								
18	WS-AOC13-SO-24-2		9:49					X								
19	WS-AOC13-SO-24-3		9:50					X								
20	WS-AOC13-SO-24-4A		9:51					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] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature]	Date/Time: 7-27-17 7:45
Received by: (signature) [signature]	Date/Time: 7/27/17 1995
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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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 7/27/17 Time 1945

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
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-		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\A080717.SEC\A0807007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	567269	616507	-8
c - 10	1.63	582026	616507	-6
c - 12	2.35	602280	616507	-2
c - 14	3.01	616087	616507	0
c - 16	3.62	632696	616507	3
c - 18	4.23	627640	616507	2
o-Terphenyl	4.52	702616	616507	
c - 20	4.84	638720	616507	4
c - 22	5.34	651603	616507	6
c - 24	5.78	609664	616507	-1
c - 26	6.17	643711	616507	4
c - 28	6.53	633637	616507	3
c - 30	6.86	630017	616507	2
c - 32	7.17	609518	616507	-1
c - 34	7.46	605031	616507	-2
c - 36	7.78	597714	616507	-3

* One compound allowed %D <= 50%

Samples

17G1300-01
17G1169-05@5X
17G1073-02@5X
17G1253-09@20X
17G1255-15@20X
17G1255-19@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G1253

Laboratory Sample ID(s):

17G1253-01 thru 17G1253-20

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, 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:** **08/11/17**

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 16, 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: 17G1254

Enclosed are results of analyses for samples received by the laboratory on July 27, 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: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1254

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-AOC13-SO-24-4B	17G1254-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-23-1A	17G1254-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-1B	17G1254-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-23-2	17G1254-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-3	17G1254-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-1	17G1254-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2A	17G1254-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2B	17G1254-08	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-1-3	17G1254-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-1	17G1254-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-2	17G1254-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3A	17G1254-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3B	17G1254-13	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-8-1	17G1254-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-2	17G1254-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-3	17G1254-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4A	17G1254-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4B	17G1254-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-4-1	17G1254-19	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.

CTDEP ETPH

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1254-08[WS-AOC7-SO-1-2B]

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
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Decachlorobiphenyl [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

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	8/3/17	8/5/17 15:09	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	46.0	30-130		8/5/17 15:09
2-Fluorobiphenyl	57.9	30-130		8/5/17 15:09
p-Terphenyl-d14	67.7	30-130		8/5/17 15:09

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

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	88.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

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	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1260 [1]	1.5	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		8/15/17 7:51
Decachlorobiphenyl [2]	88.7	30-150		8/15/17 7:51
Tetrachloro-m-xylene [1]	85.3	30-150		8/15/17 7:51
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 7:51

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

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	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Chromium	7.5	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Copper	150	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Lead	72	0.78	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Mercury	0.081	0.026	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:09	TJK
Nickel	12	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Vanadium	45	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Zinc	81	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

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	92.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

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	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1260 [2]	3.6	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/15/17 8:03
Decachlorobiphenyl [2]	84.3	30-150		8/15/17 8:03
Tetrachloro-m-xylene [1]	63.2	30-150		8/15/17 8:03
Tetrachloro-m-xylene [2]	68.3	30-150		8/15/17 8:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

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	84.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

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	8/4/17	8/14/17 23:48	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1260 [1]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.0	30-150		8/14/17 23:48
Decachlorobiphenyl [2]	101	30-150		8/14/17 23:48
Tetrachloro-m-xylene [1]	82.6	30-150		8/14/17 23:48
Tetrachloro-m-xylene [2]	89.0	30-150		8/14/17 23:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

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	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

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	8/4/17	8/15/17 0:05	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1260 [2]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/15/17 0:05
Decachlorobiphenyl [2]	75.5	30-150		8/15/17 0:05
Tetrachloro-m-xylene [1]	74.7	30-150		8/15/17 0:05
Tetrachloro-m-xylene [2]	80.3	30-150		8/15/17 0:05

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

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	8/4/17	8/15/17 0:22	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/15/17 0:22
Decachlorobiphenyl [2]	82.4	30-150		8/15/17 0:22
Tetrachloro-m-xylene [1]	77.7	30-150		8/15/17 0:22
Tetrachloro-m-xylene [2]	85.7	30-150		8/15/17 0:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

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	94.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	500	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 21:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

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	80.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

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	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1254 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1260 [1]	24	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:15
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:15

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

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	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

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	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1260 [1]	12	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

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	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1260 [1]	8.2	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:39
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

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	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

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	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1260 [1]	10	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:51
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

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	82.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 22:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.1	50-150		8/4/17 22:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

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	84.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

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	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1260 [1]	5.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:04
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

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	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1260 [1]	44	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:16
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

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	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

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	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1221 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1232 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1242 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1248 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1254 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1260 [1]	17	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1262 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1268 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:28
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:28

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

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	88.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

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	8/4/17	8/15/17 9:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1260 [1]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/15/17 9:40
Decachlorobiphenyl [2]	88.5	30-150		8/15/17 9:40
Tetrachloro-m-xylene [1]	86.6	30-150		8/15/17 9:40
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 9:40

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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: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

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	81.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	13	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.8	50-150		8/4/17 23:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Barium	12	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Chromium	6.7	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Copper	7.5	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Lead	7.5	0.90	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Mercury	ND	0.31	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:11	TJK
Nickel	160	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Vanadium	110	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Zinc	63	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

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	79.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

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	8/4/17	8/15/17 3:44	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.7	30-150		8/15/17 3:44
Decachlorobiphenyl [2]	87.0	30-150		8/15/17 3:44
Tetrachloro-m-xylene [1]	86.8	30-150		8/15/17 3:44
Tetrachloro-m-xylene [2]	94.0	30-150		8/15/17 3:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

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	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	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
17G1254-08 [WS-AOC7-SO-1-2B]	B183209	30.0	2.00	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183209	30.0	1.00	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183218	08/03/17
17G1254-02 [WS-AOC13-SO-23-1A]	B183218	08/03/17
17G1254-03 [WS-AOC13-SO-23-1B]	B183218	08/03/17
17G1254-04 [WS-AOC13-SO-23-2]	B183218	08/03/17
17G1254-05 [WS-AOC13-SO-23-3]	B183218	08/03/17
17G1254-06 [WS-AOC7-SO-1-1]	B183218	08/03/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183218	08/03/17
17G1254-08 [WS-AOC7-SO-1-2B]	B183218	08/03/17
17G1254-09 [WS-AOC7-SO-1-3]	B183218	08/03/17
17G1254-10 [WS-AOC7-SO-7-1]	B183218	08/03/17
17G1254-11 [WS-AOC7-SO-7-2]	B183218	08/03/17
17G1254-12 [WS-AOC7-SO-7-3A]	B183218	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183218	08/03/17
17G1254-14 [WS-AOC7-SO-8-1]	B183218	08/03/17
17G1254-15 [WS-AOC7-SO-8-2]	B183218	08/03/17
17G1254-16 [WS-AOC7-SO-8-3]	B183218	08/03/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183218	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183218	08/03/17
17G1254-19 [WS-AOC7-SO-4-1]	B183218	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183203	1.03	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183203	1.05	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183214	0.620	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183214	0.0605	50.0	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-02 [WS-AOC13-SO-23-1A]	B183351	10.0	10.0	08/04/17
17G1254-04 [WS-AOC13-SO-23-2]	B183351	10.0	10.0	08/04/17
17G1254-05 [WS-AOC13-SO-23-3]	B183351	10.0	10.0	08/04/17
17G1254-06 [WS-AOC7-SO-1-1]	B183351	10.0	10.0	08/04/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183351	10.0	10.0	08/04/17
17G1254-09 [WS-AOC7-SO-1-3]	B183351	10.0	10.0	08/04/17
17G1254-10 [WS-AOC7-SO-7-1]	B183351	10.0	10.0	08/04/17
17G1254-11 [WS-AOC7-SO-7-2]	B183351	10.0	10.0	08/04/17

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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
17G1254-12 [WS-AOC7-SO-7-3A]	B183351	10.0	10.0	08/04/17
17G1254-14 [WS-AOC7-SO-8-1]	B183351	10.0	10.0	08/04/17
17G1254-15 [WS-AOC7-SO-8-2]	B183351	10.0	10.0	08/04/17
17G1254-16 [WS-AOC7-SO-8-3]	B183351	10.0	10.0	08/04/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183351	10.0	10.0	08/04/17
17G1254-19 [WS-AOC7-SO-4-1]	B183351	10.0	10.0	08/04/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183204	30.0	1.00	08/03/17

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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 B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
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	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	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 B183351 - SW-846 3540C										
Blank (B183351-BLK1)				Prepared: 08/04/17 Analyzed: 08/14/17						
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	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.6	30-150			
LCS (B183351-BS1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
LCS Dup (B183351-BSD1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.5	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.6	40-140	0.260	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.4	40-140	0.315	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140	0.476	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Matrix Spike (B183351-MS1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.30	0.12	mg/Kg dry	0.244	ND	121	40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.244	ND	129	40-140			
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	46.3	40-140			
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	46.8	40-140			
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.244		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.244		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.244		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.244		97.7	30-150			
Matrix Spike Dup (B183351-MSD1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.32	0.12	mg/Kg dry	0.244	ND	132	40-140	8.34	50	
Aroclor-1016 [2C]	0.31	0.12	mg/Kg dry	0.244	ND	126	40-140	2.73	50	
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	53.6	40-140	1.52	50	
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	58.6	40-140	2.45	50	
Surrogate: Decachlorobiphenyl	*0.236*		mg/Kg dry	0.244		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.244*		mg/Kg dry	0.244		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.244		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.236*		mg/Kg dry	0.244		96.9	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 B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	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 B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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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 B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	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 B183218 - % Solids										
Duplicate (B183218-DUP4)		**Source: 17G1254-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	85.8		% Wt		84.5			1.53	20	
Duplicate (B183218-DUP5)		**Source: 17G1254-05**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	81.1		% Wt		82.0			1.10	20	
Duplicate (B183218-DUP6)		**Source: 17G1254-06**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	94.6		% Wt		94.0			0.636	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-1A

Lab Sample ID: 17G1254-02

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.5	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-2

Lab Sample ID: 17G1254-04

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	3.4	
	2	0.000	-0.030	0.030	3.6	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-3

Lab Sample ID: 17G1254-05

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.0	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-1

Lab Sample ID: 17G1254-06

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-3

Lab Sample ID: 17G1254-09

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	24	
	2	0.000	-0.030	0.030	24	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-1

Lab Sample ID: 17G1254-10

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	12	
	2	0.000	-0.030	0.030	12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-2

Lab Sample ID: 17G1254-11

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	8.2	
	2	0.000	-0.030	0.030	7.7	6.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-3A

Lab Sample ID: 17G1254-12

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	10	
	2	0.000	-0.030	0.030	9.7	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-1

Lab Sample ID: 17G1254-14

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.5	
	2	0.000	-0.030	0.030	5.3	3.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-2

Lab Sample ID: 17G1254-15

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	44	
	2	0.000	-0.030	0.030	43	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-3

Lab Sample ID: 17G1254-16

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-4A

Lab Sample ID: 17G1254-17

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183351-BS1

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183351-BSD1 Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1): Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
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: B183351-MS1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.32	6.5
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183351-MSD1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	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.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 8270D in Water	
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

17G1254

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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	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
	~~WS-AOC13-SO-23-1A~~															
1	WS-AOC13-SO-24-4B	7/27/17	9:52		X	S	U		X							
2	WS-AOC13-SO-23-1A		10:00					X	~~X~~							
3	WS-AOC13-SO-23-1B		10:02					~~X~~				X				
4	WS-AOC13-SO-23-2		10:04					X	~~X~~							
5	WS-AOC13-SO-23-3		10:05					X	~~X~~							
6	WS-AOC7-SO-1-1		10:30					X								
7	WS-AOC7-SO-1-2A		10:32					X								
8	WS-AOC7-SO-1-2B		10:34							X						
9	WS-AOC7-SO-1-3		10:36					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:**
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-AOC13-SO-23-3 (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] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1985
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	Coplanar PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC7-SO-7-1	7/27/17	10:37		X	S	U	X													
11	WS-AOC7-SO-7-2		10:38					X													
12	WS-AOC7-SO-7-3A		10:39					X													
13	WS-AOC7-SO-7-3B		10:40							X											
14	WS-AOC7-SO-8-1		10:53					X													
15	WS-AOC7-SO-8-2		10:54					X													
16	WS-AOC7-SO-8-3		10:55					X													
17	WS-AOC7-SO-8-4A		10:56					X													
18	WS-AOC7-SO-8-4B		10:57							X		X									
19	WS-AOC7-SO-4-1		11:06					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
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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
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[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:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1945
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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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
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~~ T (JM)
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\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

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: 17G1254

Laboratory Sample ID(s):

17G1254-01 thru 17G1254-19

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, 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:** **08/16/17**

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 17, 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: 17H0199

Enclosed are results of analyses for samples received by the laboratory on August 3, 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: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0199

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-AOC13-AS-26	17H0199-01	Product/Solid		SW-846 8082A	
WS-AOC7-AS-1	17H0199-02	Product/Solid		SW-846 8082A	
WS-AOC13-AS-23	17H0199-03	Product/Solid		SW-846 8082A	
WS-AOC13-AS-21	17H0199-04	Product/Solid		SW-846 8082A	
WS-AOC13-AS-17	17H0199-05	Product/Solid		SW-846 8082A	
WS-AOC13-AS-15	17H0199-06	Product/Solid		SW-846 8082A	
WS-AOC13-AS-16	17H0199-07	Product/Solid		SW-846 8082A	
WS-AOC13-AS-22	17H0199-08	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-64	17H0199-09	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-63	17H0199-10	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-62	17H0199-11	Product/Solid		SW-846 8082A	
WS-AOC7-AS-DUP7	17H0199-12	Product/Solid		SW-846 8082A	
WS-AOC13-AS-DUP6	17H0199-13	Product/Solid		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.

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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-26 Sampled: 8/3/2017 10:50

Sample ID: 17H0199-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/15/17 22:06
Decachlorobiphenyl [2]	101	30-150		8/15/17 22:06
Tetrachloro-m-xylene [1]	97.1	30-150		8/15/17 22:06
Tetrachloro-m-xylene [2]	103	30-150		8/15/17 22:06

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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-1 Sampled: 8/3/2017 11:43

Sample ID: 17H0199-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/15/17 22:24
Decachlorobiphenyl [2]	92.6	30-150		8/15/17 22:24
Tetrachloro-m-xylene [1]	91.7	30-150		8/15/17 22:24
Tetrachloro-m-xylene [2]	98.3	30-150		8/15/17 22:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-23 Sampled: 8/3/2017 11:37

Sample ID: 17H0199-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/15/17 22:42
Decachlorobiphenyl [2]	99.4	30-150		8/15/17 22:42
Tetrachloro-m-xylene [1]	101	30-150		8/15/17 22:42
Tetrachloro-m-xylene [2]	106	30-150		8/15/17 22:42

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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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-21 Sampled: 8/3/2017 11:25

Sample ID: 17H0199-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	118	30-150		8/15/17 23:00
Decachlorobiphenyl [2]	106	30-150		8/15/17 23:00
Tetrachloro-m-xylene [1]	110	30-150		8/15/17 23:00
Tetrachloro-m-xylene [2]	115	30-150		8/15/17 23:00

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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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-17 Sampled: 8/3/2017 10:40

Sample ID: 17H0199-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		8/17/17 1:59
Decachlorobiphenyl [2]	87.1	30-150		8/17/17 1:59
Tetrachloro-m-xylene [1]	82.1	30-150		8/17/17 1:59
Tetrachloro-m-xylene [2]	95.7	30-150		8/17/17 1:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-15 Sampled: 8/3/2017 10:30

Sample ID: 17H0199-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		8/17/17 2:16
Decachlorobiphenyl [2]	90.9	30-150		8/17/17 2:16
Tetrachloro-m-xylene [1]	90.6	30-150		8/17/17 2:16
Tetrachloro-m-xylene [2]	104	30-150		8/17/17 2:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-16 Sampled: 8/3/2017 10:35

Sample ID: 17H0199-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.1	30-150		8/17/17 2:34
Decachlorobiphenyl [2]	92.5	30-150		8/17/17 2:34
Tetrachloro-m-xylene [1]	94.6	30-150		8/17/17 2:34
Tetrachloro-m-xylene [2]	106	30-150		8/17/17 2:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-22 Sampled: 8/3/2017 11:36

Sample ID: 17H0199-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.2	30-150		8/17/17 2:51
Decachlorobiphenyl [2]	90.2	30-150		8/17/17 2:51
Tetrachloro-m-xylene [1]	88.7	30-150		8/17/17 2:51
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 2:51

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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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-64 Sampled: 8/3/2017 09:45

Sample ID: 17H0199-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		8/17/17 3:08
Decachlorobiphenyl [2]	62.2	30-150		8/17/17 3:08
Tetrachloro-m-xylene [1]	63.7	30-150		8/17/17 3:08
Tetrachloro-m-xylene [2]	71.5	30-150		8/17/17 3:08

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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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-63 Sampled: 8/3/2017 09:40

Sample ID: 17H0199-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/17/17 3:25
Decachlorobiphenyl [2]	84.3	30-150		8/17/17 3:25
Tetrachloro-m-xylene [1]	81.9	30-150		8/17/17 3:25
Tetrachloro-m-xylene [2]	95.0	30-150		8/17/17 3:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-62 Sampled: 8/3/2017 09:35

Sample ID: 17H0199-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		8/17/17 3:42
Decachlorobiphenyl [2]	85.3	30-150		8/17/17 3:42
Tetrachloro-m-xylene [1]	88.1	30-150		8/17/17 3:42
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 3:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-DUP7 Sampled: 8/3/2017 00:00

Sample ID: 17H0199-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		8/17/17 4:00
Decachlorobiphenyl [2]	59.0	30-150		8/17/17 4:00
Tetrachloro-m-xylene [1]	63.0	30-150		8/17/17 4:00
Tetrachloro-m-xylene [2]	71.0	30-150		8/17/17 4:00

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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: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-DUP6 Sampled: 8/3/2017 00:00

Sample ID: 17H0199-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		8/17/17 4:17
Decachlorobiphenyl [2]	85.2	30-150		8/17/17 4:17
Tetrachloro-m-xylene [1]	86.0	30-150		8/17/17 4:17
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 4:17

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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
17H0199-01 [WS-AOC13-AS-26]	B183940	2.04	10.0	08/12/17
17H0199-02 [WS-AOC7-AS-1]	B183940	2.02	10.0	08/12/17
17H0199-03 [WS-AOC13-AS-23]	B183940	2.03	10.0	08/12/17
17H0199-04 [WS-AOC13-AS-21]	B183940	2.04	10.0	08/12/17
17H0199-05 [WS-AOC13-AS-17]	B183940	2.03	10.0	08/12/17
17H0199-06 [WS-AOC13-AS-15]	B183940	2.02	10.0	08/12/17
17H0199-07 [WS-AOC13-AS-16]	B183940	2.01	10.0	08/12/17
17H0199-08 [WS-AOC13-AS-22]	B183940	2.03	10.0	08/12/17
17H0199-09 [WS-AOC12E-AS-64]	B183940	2.02	10.0	08/12/17
17H0199-10 [WS-AOC12E-AS-63]	B183940	2.04	10.0	08/12/17
17H0199-11 [WS-AOC12E-AS-62]	B183940	2.03	10.0	08/12/17
17H0199-12 [WS-AOC7-AS-DUP7]	B183940	2.02	10.0	08/12/17
17H0199-13 [WS-AOC13-AS-DUP6]	B183940	2.02	10.0	08/12/17

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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 B183940 - SW-846 3540C										
Blank (B183940-BLK1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.959*		mg/Kg	1.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.948*		mg/Kg	1.00		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.918*		mg/Kg	1.00		91.8	30-150			
LCS (B183940-BS1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.8	40-140			
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.3	40-140			
Aroclor-1260	0.91	0.10	mg/Kg	1.00		90.7	40-140			
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		82.2	40-140			
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.958*		mg/Kg	1.00		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.930*		mg/Kg	1.00		93.0	30-150			
LCS Dup (B183940-BSD1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		92.2	40-140	1.50	30	
Aroclor-1016 [2C]	0.93	0.10	mg/Kg	1.00		93.1	40-140	2.97	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		89.5	40-140	1.32	30	
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		82.2	40-140	0.0170	30	
Surrogate: Decachlorobiphenyl	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.943*		mg/Kg	1.00		94.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183940 - SW-846 3540C										
Matrix Spike (B183940-MS1)		**Source: 17H0199-05**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	1.2	0.99	mg/Kg	0.990	ND	125	40-140			
Aroclor-1016 [2C]	1.2	0.99	mg/Kg	0.990	ND	117	40-140			
Aroclor-1260	1.1	0.99	mg/Kg	0.990	ND	113	40-140			
Aroclor-1260 [2C]	1.2	0.99	mg/Kg	0.990	ND	117	40-140			
Surrogate: Decachlorobiphenyl	*0.892*		mg/Kg	0.990		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.879*		mg/Kg	0.990		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.692*		mg/Kg	0.990		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.990		103	30-150			
Matrix Spike Dup (B183940-MSD1)		**Source: 17H0199-05**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	1.0	0.98	mg/Kg	0.976	ND	105	40-140	19.0	50	
Aroclor-1016 [2C]	1.1	0.98	mg/Kg	0.976	ND	112	40-140	6.14	50	
Aroclor-1260	1.0	0.98	mg/Kg	0.976	ND	107	40-140	7.16	50	
Aroclor-1260 [2C]	1.1	0.98	mg/Kg	0.976	ND	111	40-140	7.34	50	
Surrogate: Decachlorobiphenyl	*0.822*		mg/Kg	0.976		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.814*		mg/Kg	0.976		83.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.799*		mg/Kg	0.976		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.956*		mg/Kg	0.976		98.0	30-150			

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FLAG/QUALIFIER SUMMARY

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

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

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
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

17H0199

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

(Soxhlet) PCB

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-AS-26	8/3/17	10:50		X	O	U			
02	WS-AOC7-AS-1		11:43							
03	WS-AOC13-AS-23		11:37							
04	WS-AOC13-AS-21		11:25							
05	WS-AOC13-AS-17		10:40							
06	WS-AOC13-AS-15		10:30							
07	WS-AOC13-AS-16		10:35							
08	WS-AOC13-AS-22		11:36							
09	WS-AOC12E-AS-64		9:45							
10	WS-AOC12E-AS-63		9:40							

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-AOC13-AS-17 (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:
Hankesh Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature)	Date/Time:
[illegible]	8/3/17 1645
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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17H0199

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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

(Soxhlet) PCB

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-AS-02	8/3/17	9:35		X	D	U			
12	WS-AOC7-AS-DUP7	↓			↓	↓	↓			
13	WS-AOC13-AS-DUP6	↓			↓	↓	↓			

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

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

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

Relinquished by: (signature)	Date/Time:
Akanksha Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature)	Date/Time:
[illegible]	8/3/17 1645
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 BLF Date 8/3/17 Time 1645

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 3.1°C, 4.7°C

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

Was Custody Seal Intact? NA 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? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	15
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: 17H0199

Laboratory Sample ID(s):

17H0199-01 thru 17H0199-13

Sample Date(s):

08/03/2017

List RCP Methods Used:

SW-846 8082A

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

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

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

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

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

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 18, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0432

Enclosed are results of analyses for samples received by the laboratory on August 9, 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: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0432

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-17-1	17H0432-01	Soil		SW-846 8270D	
WS-AOC-13-SO-DUP-27	17H0432-02	Soil		SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1016 [2C]
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260 [2C]
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17H0432-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	0.56	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Anthracene (SIM)	0.30	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)anthracene (SIM)	0.54	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)pyrene (SIM)	0.47	0.10	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(b)fluoranthene (SIM)	0.70	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(k)fluoranthene (SIM)	0.23	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Chrysene (SIM)	0.66	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluoranthene (SIM)	2.2	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.24	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Phenanthrene (SIM)	0.39	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Pyrene (SIM)	3.0	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	72.9	30-130		8/16/17 12:06
2-Fluorobiphenyl	68.2	30-130		8/16/17 12:06
p-Terphenyl-d14	56.3	30-130		8/16/17 12:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17H0432-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		8/17/17 20:30
Decachlorobiphenyl [2]	98.2	30-150		8/17/17 20:30
Tetrachloro-m-xylene [1]	90.4	30-150		8/17/17 20:30
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 20:30

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-02 [WS-AOC-13-SO-DUP-27]	B183949	500	5.00	08/12/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-01 [WS-AOC-13-SO-17-1]	B184190	700	0.700	08/15/17

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
Blank (B184190-BLK1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*77.7*		µg/L	100		77.7	30-130			
Surrogate: 2-Fluorobiphenyl	*73.0*		µg/L	100		73.0	30-130			
Surrogate: p-Terphenyl-d14	*65.9*		µg/L	100		65.9	30-130			
LCS (B184190-BS1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	43.6	7.5	µg/L	50.0		87.2	40-140			
Acenaphthylene (SIM)	42.5	7.5	µg/L	50.0		85.0	40-140			
Anthracene (SIM)	46.3	5.0	µg/L	50.0		92.6	40-140			
Benzo(a)anthracene (SIM)	44.6	1.2	µg/L	50.0		89.1	40-140			
Benzo(a)pyrene (SIM)	47.3	2.5	µg/L	50.0		94.6	40-140			
Benzo(b)fluoranthene (SIM)	47.9	1.2	µg/L	50.0		95.8	40-140			
Benzo(g,h,i)perylene (SIM)	44.3	12	µg/L	50.0		88.6	40-140			
Benzo(k)fluoranthene (SIM)	46.6	5.0	µg/L	50.0		93.3	40-140			
Chrysene (SIM)	44.4	5.0	µg/L	50.0		88.7	40-140			
Dibenz(a,h)anthracene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.3	40-140			
Fluorene (SIM)	44.1	25	µg/L	50.0		88.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	44.7	5.0	µg/L	50.0		89.4	40-140			
2-Methylnaphthalene (SIM)	42.3	25	µg/L	50.0		84.6	40-140			
Naphthalene (SIM)	42.2	25	µg/L	50.0		84.3	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	45.8	25	µg/L	50.0		91.7	40-140			
Surrogate: Nitrobenzene-d5	*89.6*		µg/L	100		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	*99.0*		µg/L	100		99.0	30-130			
Surrogate: p-Terphenyl-d14	*76.5*		µg/L	100		76.5	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
LCS Dup (B184190-BSD1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	48.8	7.5	µg/L	50.0		97.6	40-140	11.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	11.8	20	
Anthracene (SIM)	51.6	5.0	µg/L	50.0		103	40-140	10.9	20	
Benzo(a)anthracene (SIM)	49.8	1.2	µg/L	50.0		99.6	40-140	11.1	20	
Benzo(a)pyrene (SIM)	53.1	2.5	µg/L	50.0		106	40-140	11.7	20	
Benzo(b)fluoranthene (SIM)	53.4	1.2	µg/L	50.0		107	40-140	10.8	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.2	40-140	11.2	20	
Benzo(k)fluoranthene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.6	20	
Chrysene (SIM)	49.4	5.0	µg/L	50.0		98.8	40-140	10.7	20	
Dibenz(a,h)anthracene (SIM)	50.1	5.0	µg/L	50.0		100	40-140	11.9	20	
Fluoranthene (SIM)	50.7	12	µg/L	50.0		101	40-140	10.4	20	
Fluorene (SIM)	49.3	25	µg/L	50.0		98.6	40-140	11.1	20	
Indeno(1,2,3-cd)pyrene (SIM)	50.0	5.0	µg/L	50.0		100	40-140	11.1	20	‡
2-Methylnaphthalene (SIM)	48.0	25	µg/L	50.0		96.0	40-140	12.7	20	
Naphthalene (SIM)	48.2	25	µg/L	50.0		96.5	40-140	13.5	20	
Phenanthrene (SIM)	50.3	1.2	µg/L	50.0		101	40-140	10.8	20	
Pyrene (SIM)	50.8	25	µg/L	50.0		102	40-140	10.3	20	
Surrogate: Nitrobenzene-d5	*103*		µg/L	100		103	30-130			
Surrogate: 2-Fluorobiphenyl	*108*		µg/L	100		108	30-130			
Surrogate: p-Terphenyl-d14	*84.2*		µg/L	100		84.2	30-130			
Matrix Spike (B184190-MS1)	**Source: 17H0432-01**			Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	55.1	7.5	µg/L	71.4	0.562	76.4	40-140			
Acenaphthylene (SIM)	53.6	7.5	µg/L	71.4	0.117	74.8	40-140			
Anthracene (SIM)	57.8	5.0	µg/L	71.4	0.296	80.5	40-140			
Benzo(a)anthracene (SIM)	57.4	1.2	µg/L	71.4	0.539	79.5	40-140			
Benzo(a)pyrene (SIM)	60.8	2.5	µg/L	71.4	0.467	84.4	40-140			
Benzo(b)fluoranthene (SIM)	60.4	1.2	µg/L	71.4	0.702	83.6	40-140			
Benzo(g,h,i)perylene (SIM)	57.1	12	µg/L	71.4	0.249	79.6	40-140			
Benzo(k)fluoranthene (SIM)	58.2	5.0	µg/L	71.4	0.232	81.1	40-140			
Chrysene (SIM)	56.9	5.0	µg/L	71.4	0.658	78.7	40-140			
Dibenz(a,h)anthracene (SIM)	57.5	5.0	µg/L	71.4	0.0610	80.4	40-140			
Fluoranthene (SIM)	58.6	12	µg/L	71.4	2.22	79.0	40-140			
Fluorene (SIM)	54.9	25	µg/L	71.4	0.121	76.7	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	58.0	5.0	µg/L	71.4	0.244	80.9	40-140			
2-Methylnaphthalene (SIM)	53.3	25	µg/L	71.4	0.0960	74.5	40-140			
Naphthalene (SIM)	54.2	25	µg/L	71.4	0.385	75.3	40-140			
Phenanthrene (SIM)	56.2	1.2	µg/L	71.4	0.387	78.2	40-140			
Pyrene (SIM)	61.5	25	µg/L	71.4	2.97	81.9	40-140			
Surrogate: Nitrobenzene-d5	*116*		µg/L	143		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	*119*		µg/L	143		83.3	30-130			
Surrogate: p-Terphenyl-d14	*83.7*		µg/L	143		58.6	30-130			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B183949 - SW-846 3510C											
Blank (B183949-BLK1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	ND	0.20	µg/L								R-05
Aroclor-1016 [2C]	ND	0.20	µg/L								R-05
Aroclor-1221	ND	0.20	µg/L								
Aroclor-1221 [2C]	ND	0.20	µg/L								
Aroclor-1232	ND	0.20	µg/L								
Aroclor-1232 [2C]	ND	0.20	µg/L								
Aroclor-1242	ND	0.20	µg/L								
Aroclor-1242 [2C]	ND	0.20	µg/L								
Aroclor-1248	ND	0.20	µg/L								
Aroclor-1248 [2C]	ND	0.20	µg/L								
Aroclor-1254	ND	0.20	µg/L								
Aroclor-1254 [2C]	ND	0.20	µg/L								
Aroclor-1260	ND	0.20	µg/L								R-05
Aroclor-1260 [2C]	ND	0.20	µg/L								R-05
Aroclor-1262	ND	0.20	µg/L								
Aroclor-1262 [2C]	ND	0.20	µg/L								
Aroclor-1268	ND	0.20	µg/L								
Aroclor-1268 [2C]	ND	0.20	µg/L								
Surrogate: Decachlorobiphenyl	*1.77*		µg/L	2.00		88.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.96*		µg/L	2.00		98.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.84*		µg/L	2.00		91.8	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*2.05*		µg/L	2.00		102	30-150				
LCS (B183949-BS1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	0.41	0.20	µg/L	0.500		82.3	40-140				R-05
Aroclor-1016 [2C]	0.40	0.20	µg/L	0.500		80.8	40-140				R-05
Aroclor-1260	0.31	0.20	µg/L	0.500		61.2	40-140				R-05
Aroclor-1260 [2C]	0.30	0.20	µg/L	0.500		59.6	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.06*		µg/L	2.00		52.8	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.16*		µg/L	2.00		57.8	30-150				
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		71.0	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.55*		µg/L	2.00		77.6	30-150				
LCS Dup (B183949-BSD1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	0.54	0.20	µg/L	0.500		109	40-140	**27.5**	*	20	R-05
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140	**34.3**	*	20	R-05
Aroclor-1260	0.46	0.20	µg/L	0.500		92.8	40-140	**41.0**	*	20	R-05
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		97.6	40-140	**48.3**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.6	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/L	2.00		95.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/L	2.00		86.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.92*		µg/L	2.00		96.2	30-150				

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183949 - SW-846 3510C										
Matrix Spike (B183949-MS1)		**Source: 17H0432-02**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	0.49	0.20	µg/L	0.500	ND	97.7	40-140			R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500	ND	95.2	40-140			R-05
Aroclor-1260	0.43	0.20	µg/L	0.500	ND	85.1	40-140			R-05
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500	ND	89.5	40-140			R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.58*		µg/L	2.00		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.6	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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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17H0432

con-test ANALYTICAL LABORATORY

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CHAIN OF CUSTODY RECORD

ruce Street
Longmeadow, MA 01028

Page 7 of ____

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-8-3	7/26/17	13:44		X	S	U	X								
02	WS-AOC13-SO-17-1		14:04					X	X							
03	WS-AOC13-SO-17-2		14:06					X								
04	WS-AOC13-SO-17-3		14:08					X								
05	WS-AOC13-SO-11-1		14:25					X								
06	WS-AOC13-SO-11-2A		14:26					X								
07	WS-AOC13-SO-11-2B		14:27							X			X			
08	WS-AOC13-SO-11-3		14:28					X								
09	WS-AOC13-SO-13-1		14:42					X								
10	WS-AOC13-SO-13-2A		14:43					X								

01

activated for SPLP PAH 8/9. Hold time up 8/9 to leach - JG 8/9/17

WS-AOC-13-SO-17-2 ETPH analysis per client request KS 7/31

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: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
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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7/26/17 1703

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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	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RCRA 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-13-2B	7/26/17	14:44		X	S	U			X						
12	WS-AOC13-SO-13-3	↓	14:45		↓	↓	↓	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-AOC13-SO-13-2B (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: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:53
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
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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CHAIN OF CUSTODY RECORD

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Requested Turnaround Time
7-Day ☑ 10-Day ☐
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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	PAHs	ETPHs	SVOCs	~~RCRA Metals~~	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
13	WS-AOC13-SO-DUP-26	7/26/17			X	S	U	X									
02 14	WS-AOC13-SO-DUP-27							X									

activated for SPLP PCB 8/9. Hold time up 8/9 to leach - JG 8/9/17

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:30
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
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
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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 BLF Date 7/26/17 Time 1703

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA 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? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
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		7/26/17 1703	

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: