



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

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: beeler@wseinc.com

Fax To #:

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Client Sample ID / Description

WS-PDC-12W-50-103-2

WS-PDC-12W-50-103-3

WS-PDC-12W-50-107-1

WS-PDC-12W-50-107-2

WS-PDC-12W-50-107-3

WS-PDC-12W-50-102-1

WS-PDC-12W-50-102-2

WS-PDC-12W-50-102-3

WS-PDC-12W-50-104-1

WS-PDC-12W-50-104-2

WS-PDC-12W-50-104-3

WS-PDC-12W-50-104-4

WS-PDC-12W-50-104-5

WS-PDC-12W-50-104-6

WS-PDC-12W-50-104-7

WS-PDC-12W-50-104-8

WS-PDC-12W-50-104-9

WS-PDC-12W-50-104-10

WS-PDC-12W-50-104-11

WS-PDC-12W-50-104-12

WS-PDC-12W-50-104-13

WS-PDC-12W-50-104-14

WS-PDC-12W-50-104-15

WS-PDC-12W-50-104-16

WS-PDC-12W-50-104-17

of Containers

Preservation Code

Container Code

ANALYSIS REQUESTED

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil/Solid

SL = Sludge

O = Other (please define)

Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define)

Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

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

Please hold excess volumes for possible SPLP analyses.

Please do MCMDD analysis for WS-PDC-12W-50-102-2 and WS-PDC-12W-50-102-3

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Con-Test Bid:

Invoice Recipient:

Sampled By:

Client Sample ID / Description

WS-PDC-12W-50-103-2

WS-PDC-12W-50-103-3

WS-PDC-12W-50-107-1

WS-PDC-12W-50-107-2

WS-PDC-12W-50-107-3

WS-PDC-12W-50-102-1

WS-PDC-12W-50-102-2

WS-PDC-12W-50-102-3

WS-PDC-12W-50-104-1

WS-PDC-12W-50-104-2

WS-PDC-12W-50-104-3

WS-PDC-12W-50-104-4

WS-PDC-12W-50-104-5

WS-PDC-12W-50-104-6

WS-PDC-12W-50-104-7

WS-PDC-12W-50-104-8

WS-PDC-12W-50-104-9

WS-PDC-12W-50-104-10

WS-PDC-12W-50-104-11

WS-PDC-12W-50-104-12

WS-PDC-12W-50-104-13

WS-PDC-12W-50-104-14

WS-PDC-12W-50-104-15

WS-PDC-12W-50-104-16

WS-PDC-12W-50-104-17

WS-PDC-12W-50-104-18

WS-PDC-12W-50-104-19

WS-PDC-12W-50-104-20

WS-PDC-12W-50-104-21

WS-PDC-12W-50-104-22

WS-PDC-12W-50-104-23

WS-PDC-12W-50-104-24

WS-PDC-12W-50-104-25

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Con-Test Bid:

Invoice Recipient:

Sampled By:

Client Sample ID / Description

WS-PDC-12W-50-103-2

WS-PDC-12W-50-103-3

WS-PDC-12W-50-107-1

WS-PDC-12W-50-107-2

WS-PDC-12W-50-107-3

WS-PDC-12W-50-102-1

WS-PDC-12W-50-102-2

WS-PDC-12W-50-102-3

WS-PDC-12W-50-104-1

WS-PDC-12W-50-104-2

WS-PDC-12W-50-104-3

WS-PDC-12W-50-104-4

WS-PDC-12W-50-104-5

WS-PDC-12W-50-104-6

WS-PDC-12W-50-104-7

WS-PDC-12W-50-104-8

WS-PDC-12W-50-104-9

WS-PDC-12W-50-104-10

WS-PDC-12W-50-104-11

WS-PDC-12W-50-104-12

WS-PDC-12W-50-104-13

WS-PDC-12W-50-104-14

WS-PDC-12W-50-104-15

WS-PDC-12W-50-104-16

WS-PDC-12W-50-104-17

WS-PDC-12W-50-104-18

WS-PDC-12W-50-104-19

WS-PDC-12W-50-104-20

WS-PDC-12W-50-104-21

WS-PDC-12W-50-104-22

WS-PDC-12W-50-104-23

WS-PDC-12W-50-104-24

WS-PDC-12W-50-104-25



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

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotnak

Sampled By: Chris Berthiaume/Will Sirotnak

Requested Turnaround Time: ☒ 7-Day ☐ 10-Day ☐ 5-day

Other: ☐ Rush-Approval Required ☐ 3-Day ☐ 4-Day

Format: ☒ PDF ☒ EXCEL ☐ Data Delivery

Enhanced Data Package Required: ☐

Email To: beelerm@wseinc.com

Fax To #:

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Beginning Date/Time

Client Sample ID / Description

WS-PDC-12W-50-104-3

WS-PDC-12W-50-101-1

WS-PDC-12W-50-101-2

WS-PDC-12W-50-101-3

WS-PDC-12W-50-100-1

WS-PDC-12W-50-100-2

WS-PDC-12W-50-99-1

WS-PDC-12W-50-99-2

WS-PDC-12W-50-99-3

Comments:

Please hold excess volumes for possible SPLP analyses.

Reinquired by: (signature) Date/Time: 9/11/17 1445

Received by: (signature) Date/Time: 9/11/17 1445

Reinquired by: (signature) Date/Time: 9/11/17 1505

Received by: (signature) Date/Time: 9/11/17 1505

Reinquired by: (signature) Date/Time: 9/11/17 430

Received by: (signature) Date/Time: 9/11/17 1630

Reinquired by: (signature) Date/Time: 9/11/17 1630

Received by: (signature) Date/Time: 9/11/17 1630

Reinquired by: (signature) Date/Time: 9/11/17 1630

Received by: (signature) Date/Time: 9/11/17 1630

Reinquired by: (signature) Date/Time: 9/11/17 1630

Received by: (signature) Date/Time: 9/11/17 1630

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-12W-50-104-3	9/11/17	10/14		X	S	U
12	WS-PDC-12W-50-101-1	9/11/17	10/25		X	S	U
13	WS-PDC-12W-50-101-2	9/11/17	10/26		X	S	U
14	WS-PDC-12W-50-101-3	9/11/17	10/27		X	S	U
15	WS-PDC-12W-50-100-1	9/11/17	10/32		X	S	U
16	WS-PDC-12W-50-100-2	9/11/17	10/33		X	S	U
17	WS-PDC-12W-50-99-1	9/11/17	10/34		X	S	U
18	WS-PDC-12W-50-99-2	9/11/17	10/37		X	S	U
19	WS-PDC-12W-50-99-3	9/11/17	10/38		X	S	U
20	WS-PDC-12W-50-99-3	9/11/17	10/39		X	S	U

ANALYSIS REQUESTED

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

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

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

Program Information

MCP Analytical Certification Form Required ☐

RCP Analysis Certification Form Required ☒

MA State DW Form Required ☐

PWSID #

NEELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client Weston K Sampson

Received By PLF

Date 9/11/17

Time 11:30

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 23°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA

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

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

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

Did COC include all Client T Analysis T Sampler Name T

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH?

Who was notified?

Who was notified?

Who was notified?

MS/MSD? NA

Is splitting samples required? F

On COC? NA

Acid NA Base NA

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

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A091917\A0919136.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919136.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.30	601503	663876	-9
c - 10	1.64	612478	663876	-8
c - 12	2.37	631911	663876	-5
c - 14	3.04	645030	663876	-3
c - 16	3.65	663263	663876	0
c - 18	4.28	661693	663876	0
o-Terphenyl	4.56	743925	663876	
c - 20	4.89	677130	663876	2
c - 22	5.39	694750	663876	5
c - 24	5.83	656427	663876	-1
c - 26	6.23	699763	663876	5
c - 28	6.59	697743	663876	5
c - 30	6.92	695032	663876	5
c - 32	7.23	676688	663876	2
c - 34	7.53	673957	663876	2
c - 36	7.87	670779	663876	1

* One compound allowed %D <= 50%

Samples

17I0379-06
 17I0379-09
 17I0379-12
 17I0379-15
 17I0379-18
 17I0380-05@10X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0379

Laboratory Sample ID(s):

17I0379-01 thru 17I0379-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

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

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Laboratory Director
Printed Name: Tod E. Kopyscinski
Date: 09/25/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 21, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0380

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

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17I0380-01	6
17I0380-02	9
17I0380-03	13
17I0380-04	16
17I0380-05	20
17I0380-06	23
17I0380-07	27
17I0380-08	31
Sample Preparation Information	35
QC Data	37
Semivolatile Organic Compounds by GC/MS	37
B186330	37
B186454	38
Polychlorinated Biphenyls By GC/ECD	40
B186214	40
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	41
B186353	41
B186490	42
Petroleum Hydrocarbons Analyses	44
B186422	44
B186472	44
Metals Analyses (Total)	45

Table of Contents (continued)

B186151	45
B186450	45
Flag/Qualifier Summary	46
Certifications	47
Chain of Custody/Sample Receipt	49

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

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

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710380

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12N-SO-1-1	1710380-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12N-SO-3-1	1710380-02	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12N-SO-3-2	1710380-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12N-SO-4-1	1710380-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-12W-SO-DUP-60	1710380-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12N-SO-DUP-61	1710380-06	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 8082A	
EB-71	1710380-07	Equipment Blank Water		CTDEP ETPH SW-846 6020A-B SW-846 8082A SW-846 8270D	
EB-72	1710380-08	Equipment Blank Water		CTDEP ETPH SW-846 6020A-B SW-846 8082A SW-846 8270D	

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

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

For method 6020, only As was requested and reported.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

o-Terphenyl

1710380-06[WS-AOC-12N-SO-DUP-61]

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

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

Sampled: 9/11/2017 12:20

Sample ID: 1710380-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.2	30-150							
Decachlorobiphenyl [2]	79.6	30-150							
Tetrachloro-m-xylene [1]	77.1	30-150							
Tetrachloro-m-xylene [2]	78.7	30-150							

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

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

Sampled: 9/11/2017 12:20

Sample ID: 1710380-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	67	13	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:47	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	78.8		50-150					9/20/17 8:47	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

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

Sampled: 9/11/2017 12:20

Sample ID: 1710380-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1

Sampled: 9/11/2017 12:25

Sample ID: 1710380-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.6	30-150							
Decachlorobiphenyl [2]	83.0	30-150							
Tetrachloro-m-xylene [1]	90.9	30-150							
Tetrachloro-m-xylene [2]	95.3	30-150							

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1

Sampled: 9/11/2017 12:25

Sample ID: 1710380-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	390	130	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 20:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	87.4		50-150				9/20/17 20:42		

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1

Sampled: 9/11/2017 12:25

Sample ID: 1710380-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	14	3.3	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 14:15	QNW

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1

Sampled: 9/11/2017 12:25

Sample ID: 1710380-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-2

Sampled: 9/11/2017 12:30

Sample ID: 1710380-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150						9/20/17 12:52	
Decachlorobiphenyl [2]	82.1	30-150						9/20/17 12:52	
Tetrachloro-m-xylene [1]	88.7	30-150						9/20/17 12:52	
Tetrachloro-m-xylene [2]	91.2	30-150						9/20/17 12:52	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-2

Sampled: 9/11/2017 12:30

Sample ID: 1710380-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	88	12	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 9:23	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	77.4		50-150					9/20/17 9:23	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-2

Sampled: 9/11/2017 12:30

Sample ID: 1710380-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1

Sampled: 9/11/2017 12:35

Sample ID: 1710380-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Anthracene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(a)anthracene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(a)pyrene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(b)fluoranthene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(g,h,i)perylene	0.62	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(k)fluoranthene	0.59	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Chrysene	1.6	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Fluoranthene	3.0	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Phenanthrene	2.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Pyrene	2.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	56.1	30-130						9/18/17 17:04	
2-Fluorobiphenyl	72.0	30-130						9/18/17 17:04	
p-Terphenyl-d14	78.6	30-130						9/18/17 17:04	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1

Sampled: 9/11/2017 12:35

Sample ID: 1710380-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	83.3	30-150							
Tetrachloro-m-xylene [1]	87.4	30-150							
Tetrachloro-m-xylene [2]	89.3	30-150							

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1

Sampled: 9/11/2017 12:35

Sample ID: 1710380-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	62	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 20:06	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	72.8		50-150					9/20/17 20:06	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1

Sampled: 9/11/2017 12:35

Sample ID: 1710380-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-DUP-60

Sampled: 9/11/2017 00:00

Sample ID: 1710380-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.1	30-150						9/21/17 1:01	
Decachlorobiphenyl [2]	69.5	30-150						9/21/17 1:01	
Tetrachloro-m-xylene [1]	76.0	30-150						9/21/17 1:01	
Tetrachloro-m-xylene [2]	82.5	30-150						9/21/17 1:01	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-DUP-60

Sampled: 9/11/2017 00:00

Sample ID: 1710380-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1200	140	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 9:59	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	98.0		50-150					9/20/17 9:59	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-DUP-60

Sampled: 9/11/2017 00:00

Sample ID: 1710380-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.8		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61

Sampled: 9/11/2017 00:00

Sample ID: 1710380-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150						9/21/17 1:19	
Decachlorobiphenyl [2]	74.9	30-150						9/21/17 1:19	
Tetrachloro-m-xylene [1]	91.5	30-150						9/21/17 1:19	
Tetrachloro-m-xylene [2]	94.7	30-150						9/21/17 1:19	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61

Sampled: 9/11/2017 00:00

Sample ID: 1710380-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	710	270	mg/Kg dry	20		CTDEP ETPH	9/18/17	9/20/17 20:24	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 20:24	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61

Sampled: 9/11/2017 00:00

Sample ID: 1710380-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	22	3.2	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 14:19	QNW

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61

Sampled: 9/11/2017 00:00

Sample ID: 1710380-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-71

Sampled: 9/11/2017 00:00

Sample ID: 1710380-07

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	86.6	30-130						9/19/17 5:47	
2-Fluorobiphenyl	84.6	30-130						9/19/17 5:47	
p-Terphenyl-d14	79.5	30-130						9/19/17 5:47	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-71

Sampled: 9/11/2017 00:00

Sample ID: 1710380-07

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.8	30-150							
Decachlorobiphenyl [2]	98.5	30-150							
Tetrachloro-m-xylene [1]	86.7	30-150							
Tetrachloro-m-xylene [2]	87.4	30-150							

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-71

Sampled: 9/11/2017 00:00

Sample ID: 1710380-07

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/18/17	9/19/17 17:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	92.8		50-150					9/19/17 17:42	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-71

Sampled: 9/11/2017 00:00

Sample ID: 1710380-07

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/13/17	9/14/17 15:57	WSD

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-72

Sampled: 9/11/2017 00:00

Sample ID: 1710380-08

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	86.4	30-130						9/19/17 6:15	
2-Fluorobiphenyl	82.4	30-130						9/19/17 6:15	
p-Terphenyl-d14	77.8	30-130						9/19/17 6:15	

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-72

Sampled: 9/11/2017 00:00

Sample ID: 1710380-08

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.4	30-150							
Decachlorobiphenyl [2]	98.8	30-150							
Tetrachloro-m-xylene [1]	87.4	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-72

Sampled: 9/11/2017 00:00

Sample ID: 1710380-08

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/18/17	9/19/17 18:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	102		50-150				9/19/17 18:02		

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

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

Sample Description:

Work Order: 1710380

Date Received: 9/11/2017

Field Sample #: EB-72

Sampled: 9/11/2017 00:00

Sample ID: 1710380-08

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/13/17	9/14/17 16:00	WSD

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-01 [WS-AOC-12N-SO-1-1]	B186472	30.2	1.00	09/18/17
17I0380-02 [WS-AOC-12N-SO-3-1]	B186472	30.0	1.00	09/18/17
17I0380-03 [WS-AOC-12N-SO-3-2]	B186472	30.1	1.00	09/18/17
17I0380-04 [WS-AOC-12N-SO-4-1]	B186472	30.2	1.00	09/18/17
17I0380-05 [WS-AOC-12W-SO-DUP-60]	B186472	30.0	1.00	09/18/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186472	30.0	1.00	09/18/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186422	1000	1.00	09/18/17
17I0380-08 [EB-72]	B186422	1000	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0380-01 [WS-AOC-12N-SO-1-1]	B186437	09/18/17
17I0380-02 [WS-AOC-12N-SO-3-1]	B186437	09/18/17
17I0380-03 [WS-AOC-12N-SO-3-2]	B186437	09/18/17
17I0380-04 [WS-AOC-12N-SO-4-1]	B186437	09/18/17
17I0380-05 [WS-AOC-12W-SO-DUP-60]	B186437	09/18/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186437	09/18/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-02 [WS-AOC-12N-SO-3-1]	B186450	1.01	50.0	09/18/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186151	50.0	50.0	09/13/17
17I0380-08 [EB-72]	B186151	50.0	50.0	09/13/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-05 [WS-AOC-12W-SO-DUP-60]	B186353	10.6	10.0	09/15/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186353	10.6	10.0	09/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-01 [WS-AOC-12N-SO-1-1]	B186490	10.0	10.0	09/18/17
17I0380-02 [WS-AOC-12N-SO-3-1]	B186490	10.0	10.0	09/18/17
17I0380-03 [WS-AOC-12N-SO-3-2]	B186490	10.0	10.0	09/18/17

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
17I0380-04 [WS-AOC-12N-SO-4-1]	B186490	10.0	10.0	09/18/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186214	1000	10.0	09/14/17
17I0380-08 [EB-72]	B186214	1000	10.0	09/14/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-04 [WS-AOC-12N-SO-4-1]	B186330	30.0	1.00	09/15/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186454	1000	1.00	09/15/17
17I0380-08 [EB-72]	B186454	1000	1.00	09/15/17

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186330 - SW-846 3546
Blank (B186330-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.9	30-130			

LCS (B186330-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.3	30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186330 - SW-846 3546

LCS Dup (B186330-BSD1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	3.76		mg/Kg wet	3.33		113	30-130			

Batch B186454 - SW-846 3510C

Blank (B186454-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	66.0		µg/L	100		66.0	30-130			
Surrogate: 2-Fluorobiphenyl	67.5		µg/L	100		67.5	30-130			
Surrogate: p-Terphenyl-d14	65.4		µg/L	100		65.4	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186454 - SW-846 3510C
LCS (B186454-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene (SIM)	84.9	7.5	µg/L	100		84.9	40-140			
Acenaphthylene (SIM)	82.7	7.5	µg/L	100		82.7	40-140			
Anthracene (SIM)	88.5	5.0	µg/L	100		88.5	40-140			
Benzo(a)anthracene (SIM)	89.4	1.2	µg/L	100		89.4	40-140			
Benzo(a)pyrene (SIM)	94.0	2.5	µg/L	100		94.0	40-140			
Benzo(b)fluoranthene (SIM)	93.5	1.2	µg/L	100		93.5	40-140			
Benzo(g,h,i)perylene (SIM)	90.6	12	µg/L	100		90.6	40-140			
Benzo(k)fluoranthene (SIM)	90.4	5.0	µg/L	100		90.4	40-140			
Chrysene (SIM)	89.0	5.0	µg/L	100		89.0	40-140			
Dibenz(a,h)anthracene (SIM)	92.3	5.0	µg/L	100		92.3	40-140			
Fluoranthene (SIM)	85.6	12	µg/L	100		85.6	40-140			
Fluorene (SIM)	85.5	25	µg/L	100		85.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	93.1	5.0	µg/L	100		93.1	40-140			
2-Methylnaphthalene (SIM)	79.3	25	µg/L	100		79.3	40-140			
Naphthalene (SIM)	76.2	25	µg/L	100		76.2	40-140			
Phenanthrene (SIM)	86.1	1.2	µg/L	100		86.1	40-140			
Pyrene (SIM)	88.2	25	µg/L	100		88.2	40-140			
Surrogate: Nitrobenzene-d5	87.8		µg/L	100		87.8	30-130			
Surrogate: 2-Fluorobiphenyl	87.9		µg/L	100		87.9	30-130			
Surrogate: p-Terphenyl-d14	69.9		µg/L	100		69.9	30-130			

LCS Dup (B186454-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene (SIM)	89.3	7.5	µg/L	100		89.3	40-140	5.05	20	
Acenaphthylene (SIM)	87.3	7.5	µg/L	100		87.3	40-140	5.41	20	
Anthracene (SIM)	93.2	5.0	µg/L	100		93.2	40-140	5.17	20	
Benzo(a)anthracene (SIM)	92.9	1.2	µg/L	100		92.9	40-140	3.90	20	
Benzo(a)pyrene (SIM)	98.1	2.5	µg/L	100		98.1	40-140	4.29	20	
Benzo(b)fluoranthene (SIM)	96.4	1.2	µg/L	100		96.4	40-140	3.03	20	
Benzo(g,h,i)perylene (SIM)	95.0	12	µg/L	100		95.0	40-140	4.82	20	
Benzo(k)fluoranthene (SIM)	94.1	5.0	µg/L	100		94.1	40-140	4.04	20	
Chrysene (SIM)	92.6	5.0	µg/L	100		92.6	40-140	3.99	20	
Dibenz(a,h)anthracene (SIM)	96.4	5.0	µg/L	100		96.4	40-140	4.35	20	
Fluoranthene (SIM)	91.0	12	µg/L	100		91.0	40-140	6.03	20	
Fluorene (SIM)	91.3	25	µg/L	100		91.3	40-140	6.59	20	
Indeno(1,2,3-cd)pyrene (SIM)	97.2	5.0	µg/L	100		97.2	40-140	4.39	20	‡
2-Methylnaphthalene (SIM)	83.4	25	µg/L	100		83.4	40-140	5.10	20	
Naphthalene (SIM)	80.9	25	µg/L	100		80.9	40-140	5.98	20	
Phenanthrene (SIM)	89.6	1.2	µg/L	100		89.6	40-140	4.01	20	
Pyrene (SIM)	91.2	25	µg/L	100		91.2	40-140	3.40	20	
Surrogate: Nitrobenzene-d5	92.5		µg/L	100		92.5	30-130			
Surrogate: 2-Fluorobiphenyl	90.0		µg/L	100		90.0	30-130			
Surrogate: p-Terphenyl-d14	73.2		µg/L	100		73.2	30-130			

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 B186214 - SW-846 3510C
Blank (B186214-BLK1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.87		µg/L	2.00		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.04		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	1.91		µg/L	2.00		95.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.92		µg/L	2.00		96.2	30-150			

LCS (B186214-BS1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.53	0.20	µg/L	0.500		107	40-140			
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		113	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		94.0	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.4	40-140			
Surrogate: Decachlorobiphenyl	1.88		µg/L	2.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.05		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	1.93		µg/L	2.00		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.93		µg/L	2.00		96.3	30-150			

LCS Dup (B186214-BSD1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.54	0.20	µg/L	0.500		107	40-140	0.398	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	1.33	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		99.3	40-140	5.48	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.5	40-140	5.45	20	
Surrogate: Decachlorobiphenyl	1.97		µg/L	2.00		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.19		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	2.00		µg/L	2.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.02		µg/L	2.00		101	30-150			

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

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186353 - SW-846 3540C
Blank (B186353-BLK1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			

LCS (B186353-BS1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			

LCS Dup (B186353-BSD1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186353 - SW-846 3540C

Matrix Spike (B186353-MS1)

Source: 17I0380-06

Prepared: 09/15/17 Analyzed: 09/20/17

Aroclor-1016	0.22	0.10	mg/Kg dry	0.262	ND	82.6	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg dry	0.262	ND	84.2	40-140			
Aroclor-1260	0.16	0.10	mg/Kg dry	0.262	ND	61.3	40-140			
Aroclor-1260 [2C]	0.16	0.10	mg/Kg dry	0.262	ND	62.3	40-140			
Surrogate: Decachlorobiphenyl	0.184		mg/Kg dry	0.262		70.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg dry	0.262		70.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.218		mg/Kg dry	0.262		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.228		mg/Kg dry	0.262		86.9	30-150			

Matrix Spike Dup (B186353-MSD1)

Source: 17I0380-06

Prepared: 09/15/17 Analyzed: 09/20/17

Aroclor-1016	0.24	0.10	mg/Kg dry	0.260	ND	93.5	40-140	11.3	50	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.260	ND	88.0	40-140	3.42	50	
Aroclor-1260	0.17	0.10	mg/Kg dry	0.260	ND	66.0	40-140	6.48	50	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg dry	0.260	ND	66.3	40-140	5.33	50	
Surrogate: Decachlorobiphenyl	0.196		mg/Kg dry	0.260		75.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg dry	0.260		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.233		mg/Kg dry	0.260		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.248		mg/Kg dry	0.260		95.7	30-150			

Batch B186490 - SW-846 3540C

Blank (B186490-BLK1)

Prepared: 09/18/17 Analyzed: 09/20/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.0	30-150			

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 B186490 - SW-846 3540C
LCS (B186490-BS1)

Prepared: 09/18/17 Analyzed: 09/20/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.7	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.8	40-140			
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.3	30-150			

LCS Dup (B186490-BSD1)

Prepared: 09/18/17 Analyzed: 09/20/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	6.26	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.7	40-140	7.62	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140	7.10	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	7.66	30	
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.8	30-150			

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

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186422 - SW-846 3510C										
Blank (B186422-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.100		mg/L	0.100		100	50-150			
LCS (B186422-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	0.863	0.075	mg/L	1.00		86.3	60-120			
Surrogate: o-Terphenyl	0.109		mg/L	0.100		109	50-150			
LCS Dup (B186422-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	0.823	0.075	mg/L	1.00		82.3	60-120	4.72	30	
Surrogate: o-Terphenyl	0.102		mg/L	0.100		102	50-150			
Batch B186472 - SW-846 3546										
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.75		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	2.85		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.8	50-150			

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 B186151 - SW-846 3005A										
Blank (B186151-BLK1)				Prepared: 09/13/17 Analyzed: 09/14/17						
Arsenic	ND	2.0	µg/L							
LCS (B186151-BS1)				Prepared: 09/13/17 Analyzed: 09/14/17						
Arsenic	522	4.0	µg/L	500		104	80-120			
LCS Dup (B186151-BSD1)				Prepared: 09/13/17 Analyzed: 09/14/17						
Arsenic	515	4.0	µg/L	500		103	80-120	1.31	20	
Batch B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

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

FLAG/QUALIFIER SUMMARY

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>CTDEP ETPH in Soil</i>	
CT ETPH	CT
<i>CTDEP ETPH in Water</i>	
CT ETPH	CT
<i>SW-846 6010C-D in Soil</i>	
Arsenic	CT,NH,NY,ME,VA,NC
<i>SW-846 6020A-B in Water</i>	
Arsenic	CT,NH,NY,ME,VA,NC
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8082A in Water</i>	
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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 Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston Sampson

Received By PLF Date 9/11/17 Time 11030

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 23, 5.9°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	<u>12</u>	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	<u>8</u>
Meoh-		250 mL Amb.		250 mL Plastic	<u>2</u>	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919034.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples

17I0380-07
 17I0380-08
 17I0408-01
 17I0408-02
 17I0408-03
 17I0408-04
 17I0408-05
 17I0408-06
 17I0408-07
 17I0408-08
 17I0539-06
 17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919080.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples

17I0719-04
 17I0719-07
 17I0719-04
 17I0719-08@20X
 17I0719-09@10X
 17I0241-16@5X
 17I0244-11@10X
 17I0317-01@5X
 17I0317-08@5X
 17I0317-12@5X
 17I0317-16@5X
 17I0317-20@5X

D:\HPCHEM\1\DATA\A091917\A0919136.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919136.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.30	601503	663876	-9
c - 10	1.64	612478	663876	-8
c - 12	2.37	631911	663876	-5
c - 14	3.04	645030	663876	-3
c - 16	3.65	663263	663876	0
c - 18	4.28	661693	663876	0
o-Terphenyl	4.56	743925	663876	
c - 20	4.89	677130	663876	2
c - 22	5.39	694750	663876	5
c - 24	5.83	656427	663876	-1
c - 26	6.23	699763	663876	5
c - 28	6.59	697743	663876	5
c - 30	6.92	695032	663876	5
c - 32	7.23	676688	663876	2
c - 34	7.53	673957	663876	2
c - 36	7.87	670779	663876	1

* One compound allowed %D <= 50%

Samples

17I0379-06
 17I0379-09
 17I0379-12
 17I0379-15
 17I0379-18
 17I0380-05@10X

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

CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

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

CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

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

CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0380

Laboratory Sample ID(s):

17I0380-01 thru 17I0380-08

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, SW-846 8082A, SW-846 8270D

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/21/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 28, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0465

Enclosed are results of analyses for samples received by the laboratory on September 12, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	8
17I0465-01	8
17I0465-02	9
17I0465-03	10
17I0465-04	11
17I0465-05	12
17I0465-06	13
17I0465-07	14
17I0465-08	15
17I0465-09	16
17I0465-10	17
17I0465-11	18
17I0465-12	19
17I0465-13	20
17I0465-14	21
17I0465-15	22
17I0465-16	23
17I0465-17	24
17I0465-18	25
17I0465-19	26
17I0465-20	27
17I0465-21	28
17I0465-22	29

Table of Contents (continued)

17I0465-23	30
Sample Preparation Information	37
QC Data	39
Volatile Organic Compounds by GC/MS	39
B186119	39
Semivolatile Organic Compounds by GC/MS	42
B186627	42
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	47
B186583	47
B186600	48
B186606	49
B186709	50
Metals Analyses (Total)	52
B186613	52
B186623	53
Dual Column RPD Report	54
Flag/Qualifier Summary	55
Certifications	56
Chain of Custody/Sample Receipt	61

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

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

REPORT DATE: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710465

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

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

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

CASE NARRATIVE SUMMARY

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

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

SW-846 6010C-D

Qualifications:**B**

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

Analyte & Samples(s) Qualified:**Nickel**

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

Zinc

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

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:**Nickel**

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

Zinc

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

SW-846 8082A

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

1710465-02RE1[WS-AOC15-AS-22], 1710465-21[WS-AOC15-AS-Dup20], 1710465-22[WS-AOC12N-AS-Dup21]

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aroclor-1260 [2C]**

B186606-MS1, B186606-MSD1

SW-846 8270D

Qualifications:**L-04**

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

Analyte & Samples(s) Qualified:**4-Chloroaniline**

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

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710465-23[WS-AOC15-SE-29]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:**4,6-Dinitro-2-methylphenol**

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

V-16

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

Analyte & Samples(s) Qualified:**Pentachloronitrobenzene**

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

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

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

4,6-Dinitro-2-methylphenol

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

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

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

4,6-Dinitro-2-methylphenol

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

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

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

SW-846 8270D

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-21

Sampled: 9/12/2017 10:09

Sample ID: 1710465-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.1	30-150						9/27/17 16:53	
Decachlorobiphenyl [2]	93.6	30-150						9/27/17 16:53	
Tetrachloro-m-xylene [1]	87.8	30-150						9/27/17 16:53	
Tetrachloro-m-xylene [2]	91.6	30-150						9/27/17 16:53	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-22

Sampled: 9/12/2017 09:45

Sample ID: 1710465-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1232 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1242 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1248 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1262 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1268 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.4	30-150						9/23/17 4:23	
Decachlorobiphenyl [2]	77.6	30-150						9/23/17 4:23	
Tetrachloro-m-xylene [1]	96.9	30-150						9/23/17 4:23	
Tetrachloro-m-xylene [2]	95.5	30-150						9/23/17 4:23	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-23

Sampled: 9/12/2017 09:44

Sample ID: 1710465-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.7	30-150						9/27/17 17:11	
Decachlorobiphenyl [2]	75.7	30-150						9/27/17 17:11	
Tetrachloro-m-xylene [1]	82.9	30-150						9/27/17 17:11	
Tetrachloro-m-xylene [2]	85.5	30-150						9/27/17 17:11	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-24

Sampled: 9/12/2017 09:43

Sample ID: 1710465-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.0	30-150						9/27/17 17:29	
Decachlorobiphenyl [2]	79.5	30-150						9/27/17 17:29	
Tetrachloro-m-xylene [1]	83.4	30-150						9/27/17 17:29	
Tetrachloro-m-xylene [2]	86.3	30-150						9/27/17 17:29	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-25

Sampled: 9/12/2017 09:41

Sample ID: 1710465-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.1	30-150						9/27/17 17:47	
Decachlorobiphenyl [2]	88.5	30-150						9/27/17 17:47	
Tetrachloro-m-xylene [1]	87.6	30-150						9/27/17 17:47	
Tetrachloro-m-xylene [2]	89.5	30-150						9/27/17 17:47	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-26

Sampled: 9/12/2017 10:11

Sample ID: 1710465-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.0	30-150						9/27/17 18:04	
Decachlorobiphenyl [2]	93.6	30-150						9/27/17 18:04	
Tetrachloro-m-xylene [1]	95.5	30-150						9/27/17 18:04	
Tetrachloro-m-xylene [2]	97.5	30-150						9/27/17 18:04	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-27

Sampled: 9/12/2017 09:55

Sample ID: 1710465-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.2	30-150						9/27/17 18:22	
Decachlorobiphenyl [2]	88.0	30-150						9/27/17 18:22	
Tetrachloro-m-xylene [1]	97.8	30-150						9/27/17 18:22	
Tetrachloro-m-xylene [2]	100	30-150						9/27/17 18:22	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-28

Sampled: 9/12/2017 09:57

Sample ID: 1710465-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.5	30-150						9/27/17 18:40	
Decachlorobiphenyl [2]	94.1	30-150						9/27/17 18:40	
Tetrachloro-m-xylene [1]	95.4	30-150						9/27/17 18:40	
Tetrachloro-m-xylene [2]	97.3	30-150						9/27/17 18:40	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-30

Sampled: 9/12/2017 10:19

Sample ID: 1710465-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.6	30-150						9/27/17 18:58	
Decachlorobiphenyl [2]	97.0	30-150						9/27/17 18:58	
Tetrachloro-m-xylene [1]	97.2	30-150						9/27/17 18:58	
Tetrachloro-m-xylene [2]	99.4	30-150						9/27/17 18:58	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-31

Sampled: 9/12/2017 10:20

Sample ID: 1710465-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150						9/27/17 19:16	
Decachlorobiphenyl [2]	89.4	30-150						9/27/17 19:16	
Tetrachloro-m-xylene [1]	93.8	30-150						9/27/17 19:16	
Tetrachloro-m-xylene [2]	95.8	30-150						9/27/17 19:16	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-32

Sampled: 9/12/2017 10:21

Sample ID: 1710465-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-33

Sampled: 9/12/2017 10:22

Sample ID: 1710465-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.4	30-150						9/27/17 20:39	
Decachlorobiphenyl [2]	99.3	30-150						9/27/17 20:39	
Tetrachloro-m-xylene [1]	99.3	30-150						9/27/17 20:39	
Tetrachloro-m-xylene [2]	101	30-150						9/27/17 20:39	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-34

Sampled: 9/12/2017 10:23

Sample ID: 1710465-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.3	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	105	30-150							
Tetrachloro-m-xylene [2]	108	30-150							

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-35

Sampled: 9/12/2017 10:24

Sample ID: 1710465-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.1	30-150						9/27/17 21:15	
Decachlorobiphenyl [2]	99.4	30-150						9/27/17 21:15	
Tetrachloro-m-xylene [1]	97.1	30-150						9/27/17 21:15	
Tetrachloro-m-xylene [2]	98.1	30-150						9/27/17 21:15	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-36

Sampled: 9/12/2017 10:25

Sample ID: 1710465-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.0	30-150						9/27/17 21:33	
Decachlorobiphenyl [2]	91.2	30-150						9/27/17 21:33	
Tetrachloro-m-xylene [1]	95.9	30-150						9/27/17 21:33	
Tetrachloro-m-xylene [2]	96.7	30-150						9/27/17 21:33	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-37

Sampled: 9/12/2017 10:26

Sample ID: 1710465-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.1	30-150						9/27/17 21:50	
Decachlorobiphenyl [2]	83.6	30-150						9/27/17 21:50	
Tetrachloro-m-xylene [1]	95.2	30-150						9/27/17 21:50	
Tetrachloro-m-xylene [2]	97.4	30-150						9/27/17 21:50	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-1

Sampled: 9/12/2017 12:30

Sample ID: 1710465-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.6	30-150						9/27/17 22:08	
Decachlorobiphenyl [2]	99.5	30-150						9/27/17 22:08	
Tetrachloro-m-xylene [1]	98.7	30-150						9/27/17 22:08	
Tetrachloro-m-xylene [2]	101	30-150						9/27/17 22:08	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-2

Sampled: 9/12/2017 12:35

Sample ID: 1710465-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.4	30-150						9/27/17 22:26	
Decachlorobiphenyl [2]	101	30-150						9/27/17 22:26	
Tetrachloro-m-xylene [1]	101	30-150						9/27/17 22:26	
Tetrachloro-m-xylene [2]	102	30-150						9/27/17 22:26	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-3

Sampled: 9/12/2017 12:40

Sample ID: 1710465-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.4	30-150						9/27/17 22:44	
Decachlorobiphenyl [2]	93.0	30-150						9/27/17 22:44	
Tetrachloro-m-xylene [1]	98.9	30-150						9/27/17 22:44	
Tetrachloro-m-xylene [2]	99.1	30-150						9/27/17 22:44	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-4

Sampled: 9/12/2017 12:45

Sample ID: 1710465-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.5	30-150						9/27/17 23:01	
Decachlorobiphenyl [2]	89.4	30-150						9/27/17 23:01	
Tetrachloro-m-xylene [1]	96.0	30-150						9/27/17 23:01	
Tetrachloro-m-xylene [2]	97.2	30-150						9/27/17 23:01	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-Dup20

Sampled: 9/12/2017 00:00

Sample ID: 1710465-21

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	112	30-150						9/22/17 23:19	
Decachlorobiphenyl [2]	96.4	30-150						9/22/17 23:19	
Tetrachloro-m-xylene [1]	105	30-150						9/22/17 23:19	
Tetrachloro-m-xylene [2]	102	30-150						9/22/17 23:19	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-Dup21

Sampled: 9/12/2017 00:00

Sample ID: 1710465-22

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.9	30-150							
Decachlorobiphenyl [2]	81.6	30-150							
Tetrachloro-m-xylene [1]	99.6	30-150							
Tetrachloro-m-xylene [2]	99.4	30-150							

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	4.0	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Acrylonitrile	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Benzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromodichloromethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromoform	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromomethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Butanone (MEK)	ND	1.6	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
sec-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
tert-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Disulfide	ND	0.24	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Tetrachloride	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorodibromomethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroform	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloromethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dibromomethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,4-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichloropropane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloropropene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Ethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Hexachlorobutadiene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Hexanone (MBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Isopropylbenzene (Cumene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Methylene Chloride	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Naphthalene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Propylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Styrene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrachloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrahydrofuran	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Toluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichloropropane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3,5-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Vinyl Chloride	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
m+p Xylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
o-Xylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	90.2	70-130							
Toluene-d8	99.2	70-130							
4-Bromofluorobenzene	107	70-130							

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Acenaphthylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Aniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(b)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(g,h,i)perylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(k)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethoxy)methane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroisopropyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Bromophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Butylbenzylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Carbazole	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloroaniline	ND	8.5	mg/Kg dry	5	L-04	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloro-3-methylphenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chloronaphthalene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chlorophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Chrysene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenz(a,h)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenzofuran	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-butylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3,3-Dichlorobenzidine	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Diethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dimethylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dimethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4,6-Dinitro-2-methylphenol	ND	4.4	mg/Kg dry	5	V-04, V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrophenol	ND	8.5	mg/Kg dry	5	V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,6-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-octylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluorene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobutadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorocyclopentadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachloroethane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Indeno(1,2,3-cd)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Isophorone	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Methylnaphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3/4-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Naphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Nitrobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitrophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitrophenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodiphenylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodi-n-propylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachloronitrobenzene	ND	4.4	mg/Kg dry	5	V-16	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenanthrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyridine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4,5-Tetrachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4-Trichlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,5-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,6-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	47.8	30-130						9/21/17 11:47	
Phenol-d6	50.2	30-130						9/21/17 11:47	
Nitrobenzene-d5	47.7	30-130						9/21/17 11:47	
2-Fluorobiphenyl	48.2	30-130						9/21/17 11:47	
2,4,6-Tribromophenol	46.8	30-130						9/21/17 11:47	
p-Terphenyl-d14	61.5	30-130						9/21/17 11:47	

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1254 [2]	0.18	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1260 [2]	0.49	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.1	30-150							
Decachlorobiphenyl [2]	77.2	30-150							
Tetrachloro-m-xylene [1]	74.8	30-150							
Tetrachloro-m-xylene [2]	77.9	30-150							

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	27	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Arsenic	11	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Barium	280	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Cadmium	2.8	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Chromium	43	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Copper	540	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Lead	1900	0.96	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Mercury	0.28	0.034	mg/Kg dry	1		SW-846 7471B	9/20/17	9/20/17 12:41	TJK
Nickel	49	0.64	mg/Kg dry	1	B, B-07	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/21/17 13:13	QNW
Vanadium	110	1.3	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Zinc	920	1.3	mg/Kg dry	1	B-07, B	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW

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

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.6		% Wt	1		SM 2540G	9/19/17	9/20/17 9:15	MRL

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
17I0465-23 [WS-AOC15-SE-29]	B186542	09/19/17

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186613	1.02	50.0	09/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186623	0.578	50.0	09/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-01 [WS-AOC15-AS-21]	B186600	2.00	10.0	09/19/17
17I0465-03 [WS-AOC15-AS-23]	B186600	2.00	10.0	09/19/17
17I0465-04 [WS-AOC15-AS-24]	B186600	2.00	10.0	09/19/17
17I0465-05 [WS-AOC15-AS-25]	B186600	2.00	10.0	09/19/17
17I0465-06 [WS-AOC15-AS-26]	B186600	2.00	10.0	09/19/17
17I0465-07 [WS-AOC15-AS-27]	B186600	2.00	10.0	09/19/17
17I0465-08 [WS-AOC15-AS-28]	B186600	2.00	10.0	09/19/17
17I0465-09 [WS-AOC15-AS-30]	B186600	2.00	10.0	09/19/17
17I0465-10 [WS-AOC15-AS-31]	B186600	2.00	10.0	09/19/17
17I0465-11 [WS-AOC15-AS-32]	B186600	2.00	10.0	09/19/17
17I0465-12 [WS-AOC15-AS-33]	B186600	2.00	10.0	09/19/17
17I0465-13 [WS-AOC15-AS-34]	B186600	2.00	10.0	09/19/17
17I0465-14 [WS-AOC15-AS-35]	B186600	2.00	10.0	09/19/17
17I0465-15 [WS-AOC15-AS-36]	B186600	2.00	10.0	09/19/17
17I0465-16 [WS-AOC15-AS-37]	B186600	2.00	10.0	09/19/17
17I0465-17 [WS-AOC12N-AS-1]	B186600	2.00	10.0	09/19/17
17I0465-18 [WS-AOC12N-AS-2]	B186600	2.00	10.0	09/19/17
17I0465-19 [WS-AOC12N-AS-3]	B186600	2.00	10.0	09/19/17
17I0465-20 [WS-AOC12N-AS-4]	B186600	2.00	10.0	09/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-21 [WS-AOC15-AS-Dup20]	B186606	2.00	10.0	09/19/17
17I0465-22 [WS-AOC12N-AS-Dup21]	B186606	2.00	10.0	09/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-02RE1 [WS-AOC15-AS-22]	B186709	2.04	10.0	09/20/17

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
17I0465-23 [WS-AOC15-SE-29]	B186583	10.0	10.0	09/19/17

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17I0465-23 [WS-AOC15-SE-29]	B186119	5.04	6.18	1	50	09/13/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186627	30.4	2.00	09/20/17

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 B186119 - SW-846 5035
Blank (B186119-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

Acetone	ND	2.5	mg/Kg wet
Acrylonitrile	ND	0.25	mg/Kg wet
Benzene	ND	0.050	mg/Kg wet
Bromobenzene	ND	0.050	mg/Kg wet
Bromodichloromethane	ND	0.050	mg/Kg wet
Bromoform	ND	0.050	mg/Kg wet
Bromomethane	ND	0.10	mg/Kg wet
2-Butanone (MEK)	ND	1.0	mg/Kg wet
n-Butylbenzene	ND	0.050	mg/Kg wet
sec-Butylbenzene	ND	0.050	mg/Kg wet
tert-Butylbenzene	ND	0.050	mg/Kg wet
Carbon Disulfide	ND	0.15	mg/Kg wet
Carbon Tetrachloride	ND	0.050	mg/Kg wet
Chlorobenzene	ND	0.050	mg/Kg wet
Chlorodibromomethane	ND	0.025	mg/Kg wet
Chloroethane	ND	0.10	mg/Kg wet
Chloroform	ND	0.10	mg/Kg wet
Chloromethane	ND	0.10	mg/Kg wet
2-Chlorotoluene	ND	0.050	mg/Kg wet
4-Chlorotoluene	ND	0.050	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet
Dibromomethane	ND	0.050	mg/Kg wet
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet
1,1-Dichloroethane	ND	0.050	mg/Kg wet
1,2-Dichloroethane	ND	0.050	mg/Kg wet
1,1-Dichloroethylene	ND	0.050	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
1,2-Dichloropropane	ND	0.050	mg/Kg wet
1,3-Dichloropropane	ND	0.025	mg/Kg wet
2,2-Dichloropropane	ND	0.050	mg/Kg wet
1,1-Dichloropropene	ND	0.10	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet
Ethylbenzene	ND	0.050	mg/Kg wet
Hexachlorobutadiene	ND	0.050	mg/Kg wet
2-Hexanone (MBK)	ND	0.50	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet
Methylene Chloride	ND	0.25	mg/Kg wet
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet
Naphthalene	ND	0.10	mg/Kg wet
n-Propylbenzene	ND	0.050	mg/Kg wet
Styrene	ND	0.050	mg/Kg wet
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet

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 B186119 - SW-846 5035
Blank (B186119-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0230		mg/Kg wet	0.0283		81.2	70-130			
Surrogate: Toluene-d8	0.0240		mg/Kg wet	0.0283		84.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0252		mg/Kg wet	0.0283		88.8	70-130			

LCS (B186119-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Acetone	0.0948	0.057	mg/Kg wet	0.113		83.7	70-130			
Acrylonitrile	0.0103	0.0057	mg/Kg wet	0.0113		90.6	70-130			
Benzene	0.00989	0.0011	mg/Kg wet	0.0113		87.3	70-130			
Bromobenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
Bromoform	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromomethane	0.0125	0.0023	mg/Kg wet	0.0113		111	70-130			
2-Butanone (MEK)	0.103	0.023	mg/Kg wet	0.113		90.5	70-130			
n-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
sec-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Carbon Disulfide	0.0980	0.0034	mg/Kg wet	0.113		86.4	70-130			
Carbon Tetrachloride	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Chlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Chlorodibromomethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Chloroethane	0.0103	0.0023	mg/Kg wet	0.0113		90.6	70-130			
Chloroform	0.0103	0.0023	mg/Kg wet	0.0113		91.2	70-130			
Chloromethane	0.00887	0.0023	mg/Kg wet	0.0113		78.3	70-130			
2-Chlorotoluene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
4-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0104	0.0057	mg/Kg wet	0.0113		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0110	0.00057	mg/Kg wet	0.0113		97.4	70-130			
Dibromomethane	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
1,2-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
trans-1,4-Dichloro-2-butene	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			
Dichlorodifluoromethane (Freon 12)	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,1-Dichloroethane	0.0101	0.0011	mg/Kg wet	0.0113		89.3	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1-Dichloroethylene	0.00943	0.0011	mg/Kg wet	0.0113		83.2	70-130			

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 B186119 - SW-846 5035										
LCS (B186119-BS1)					Prepared: 09/13/17 Analyzed: 09/18/17					
cis-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.6	70-130			
trans-1,2-Dichloroethylene	0.00971	0.0011	mg/Kg wet	0.0113		85.7	70-130			
1,2-Dichloropropane	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130			
1,3-Dichloropropane	0.0108	0.00057	mg/Kg wet	0.0113		95.5	70-130			
2,2-Dichloropropane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloropropene	0.0104	0.0023	mg/Kg wet	0.0113		91.6	70-130			
cis-1,3-Dichloropropene	0.0110	0.00057	mg/Kg wet	0.0113		97.3	70-130			
trans-1,3-Dichloropropene	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130			
Ethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
Hexachlorobutadiene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
2-Hexanone (MBK)	0.114	0.011	mg/Kg wet	0.113		101	70-130			
Isopropylbenzene (Cumene)	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130			
Methylene Chloride	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
4-Methyl-2-pentanone (MIBK)	0.115	0.011	mg/Kg wet	0.113		101	70-130			
Naphthalene	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130			
n-Propylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Styrene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,1,2-Tetrachloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,2,2-Tetrachloroethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Tetrachloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Tetrahydrofuran	0.00941	0.011	mg/Kg wet	0.0113		83.0	70-130			
Toluene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,2,3-Trichlorobenzene	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1,1-Trichloroethane	0.0108	0.0011	mg/Kg wet	0.0113		95.5	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130			
Trichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		95.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.8	70-130			
1,2,3-Trichloropropane	0.00971	0.0023	mg/Kg wet	0.0113		85.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0103	0.0011	mg/Kg wet	0.0113		90.5	70-130			
1,2,4-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Vinyl Chloride	0.00954	0.0023	mg/Kg wet	0.0113		84.2	70-130			
m+p Xylene	0.0227	0.0023	mg/Kg wet	0.0227		100	70-130			
o-Xylene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0267		mg/Kg wet	0.0283		94.4	70-130			
Surrogate: Toluene-d8	0.0279		mg/Kg wet	0.0283		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0283		mg/Kg wet	0.0283		100	70-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-04, V-19, V-20
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19, V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.43		mg/Kg wet	6.67		66.4	30-130			
Surrogate: Phenol-d6	4.62		mg/Kg wet	6.67		69.3	30-130			
Surrogate: Nitrobenzene-d5	2.30		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2,4,6-Tribromophenol	3.98		mg/Kg wet	6.67		59.8	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.33		81.5	30-130			
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140			
Aniline	0.956	0.34	mg/Kg wet	1.67		57.4	40-140			†
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Benzo(k)fluoranthene	0.979	0.17	mg/Kg wet	1.67		58.7	40-140			
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7	40-140			
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		75.1	40-140			
Bis(2-Ethylhexyl)phthalate	1.29	0.34	mg/Kg wet	1.67		77.4	40-140			
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Butylbenzylphthalate	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
Carbazole	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
4-Chloroaniline	0.603	0.66	mg/Kg wet	1.67		36.2	* 40-140			L-04 †
4-Chloro-3-methylphenol	1.05	0.66	mg/Kg wet	1.67		62.9	30-130			
2-Chloronaphthalene	1.05	0.34	mg/Kg wet	1.67		63.3	40-140			
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0	30-130			
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.1	40-140			
Chrysene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140			
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Dibenzofuran	1.03	0.34	mg/Kg wet	1.67		62.0	40-140			
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.5	40-140			
3,3-Dichlorobenzidine	1.44	0.17	mg/Kg wet	1.67		86.4	40-140			†
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130			
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.3	40-140			
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.1	30-130			
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		65.0	40-140			
4,6-Dinitro-2-methylphenol	1.24	0.34	mg/Kg wet	1.67		74.6	30-130			

V-04, V-19, V-20

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS (B186627-BS1)										
					Prepared: 09/20/17		Analyzed: 09/21/17			
2,4-Dinitrophenol	1.11	0.66	mg/Kg wet	1.67		66.3	30-130			V-19, V-20
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140			
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Di-n-octylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140			
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140			
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140			
Hexachlorocyclopentadiene	1.03	0.34	mg/Kg wet	1.67		61.8	30-140			
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.3	40-140			
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140			
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.2	30-130			
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130			
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
2-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.5	40-140			
3-Nitroaniline	0.938	0.34	mg/Kg wet	1.67		56.3	40-140			†
4-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6	40-140			
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140			
2-Nitrophenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130			
4-Nitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0	10-130			
N-Nitrosodiphenylamine	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.4	40-140			
Pentachloronitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			V-16
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Phenol	1.08	0.34	mg/Kg wet	1.67		64.7	20-130			
Pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Pyridine	0.784	0.34	mg/Kg wet	1.67		47.0	10-140			†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
2,4,5-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.1	30-130			
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130			
Surrogate: 2-Fluorophenol	4.49		mg/Kg wet	6.67		67.3	30-130			
Surrogate: Phenol-d6	4.53		mg/Kg wet	6.67		67.9	30-130			
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.33		mg/Kg wet	3.33		69.8	30-130			
Surrogate: 2,4,6-Tribromophenol	4.28		mg/Kg wet	6.67		64.2	30-130			
Surrogate: p-Terphenyl-d14	2.21		mg/Kg wet	3.33		66.2	30-130			
LCS Dup (B186627-BS1)										
					Prepared: 09/20/17		Analyzed: 09/21/17			
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.350	30	
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140	0.900	30	
Aniline	0.908	0.34	mg/Kg wet	1.67		54.5	40-140	5.15	50	† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	3.64	30	
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.92	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	5.08	30	
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	5.23	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	5.90	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	6.43	30	
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	3.36	30	

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS Dup (B186627-BSD1)					Prepared: 09/20/17 Analyzed: 09/21/17					
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1	40-140	3.69	30	
Bis(2-chloroisopropyl)ether	1.19	0.34	mg/Kg wet	1.67		71.1	40-140	5.42	30	
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		74.7	40-140	3.55	30	
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.67		71.5	40-140	4.17	30	
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	3.15	30	
Carbazole	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	3.16	30	
4-Chloroaniline	0.561	0.66	mg/Kg wet	1.67		33.7	* 40-140	7.16	30	L-04 †
4-Chloro-3-methylphenol	1.04	0.66	mg/Kg wet	1.67		62.3	30-130	0.959	30	
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	1.13	30	
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.5	30-130	3.89	30	
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		64.7	40-140	0.586	30	
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.06	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	8.39	30	
Dibenzofuran	1.04	0.34	mg/Kg wet	1.67		62.6	40-140	1.06	30	
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	3.06	30	
3,3-Dichlorobenzidine	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	5.91	30	† ‡
2,4-Dichlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0	30-130	2.34	30	
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	0.192	30	
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.4	30-130	2.71	30	
Dimethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.5	40-140	0.742	50	
4,6-Dinitro-2-methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4	30-130	2.36	50	V-04, V-19, V-20
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.3	30-130	3.03	50	V-19, V-20
2,4-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		73.5	40-140	0.929	30	
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	0.505	30	
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.67		71.7	40-140	7.95	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	4.10	30	
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	0.860	30	
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	1.03	30	
Hexachlorobutadiene	0.976	0.34	mg/Kg wet	1.67		58.5	40-140	5.90	30	
Hexachlorocyclopentadiene	1.04	0.34	mg/Kg wet	1.67		62.7	30-140	1.48	50	
Hexachloroethane	0.969	0.34	mg/Kg wet	1.67		58.1	40-140	6.88	50	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	6.87	50	
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	3.01	30	
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.36	30	
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.1	30-130	1.73	30	
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.9	30-130	1.92	30	
Naphthalene	0.974	0.17	mg/Kg wet	1.67		58.4	40-140	3.33	30	
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	1.09	30	
3-Nitroaniline	0.928	0.34	mg/Kg wet	1.67		55.7	40-140	1.04	30	†
4-Nitroaniline	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	1.93	30	
Nitrobenzene	1.10	0.34	mg/Kg wet	1.67		65.7	40-140	5.71	30	
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		72.1	30-130	4.32	30	
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.5	10-130	0.721	50	‡
N-Nitrosodiphenylamine	1.46	0.34	mg/Kg wet	1.67		87.7	40-140	5.00	30	
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	3.81	30	
Pentachloronitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	3.91	30	V-16
Pentachlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130	3.92	50	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	4.34	30	
Phenol	1.04	0.34	mg/Kg wet	1.67		62.6	20-130	3.21	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	5.68	30	
Pyridine	0.714	0.34	mg/Kg wet	1.67		42.8	10-140	9.35	50	†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.5	40-140	1.54	30	

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186627 - SW-846 3546
LCS Dup (B186627-BSD1)

Prepared: 09/20/17 Analyzed: 09/21/17

1,2,4-Trichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	4.91	30	
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.7	30-130	0.740	30	
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130	0.275	50	
Surrogate: 2-Fluorophenol	4.21		mg/Kg wet	6.67		63.1	30-130			
Surrogate: Phenol-d6	4.31		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.31		mg/Kg wet	3.33		69.3	30-130			
Surrogate: 2,4,6-Tribromophenol	4.31		mg/Kg wet	6.67		64.7	30-130			
Surrogate: p-Terphenyl-d14	2.27		mg/Kg wet	3.33		68.0	30-130			

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 B186583 - SW-846 3540C
Blank (B186583-BLK1)

Prepared: 09/19/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.6	30-150			

LCS (B186583-BS1)

Prepared: 09/19/17 Analyzed: 09/21/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.0	40-140			
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.1	30-150			

LCS Dup (B186583-BSD1)

Prepared: 09/19/17 Analyzed: 09/21/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140	11.1	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	6.92	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	6.32	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	5.03	30	
Surrogate: Decachlorobiphenyl	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.0	30-150			

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 B186600 - SW-846 3540C

Blank (B186600-BLK1)

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.957		mg/Kg	1.00		95.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.907		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.926		mg/Kg	1.00		92.6	30-150			

LCS (B186600-BS1)

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	0.85	0.10	mg/Kg	1.00		85.1	40-140			
Aroclor-1016 [2C]	0.87	0.10	mg/Kg	1.00		86.8	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.7	40-140			
Aroclor-1260 [2C]	0.85	0.10	mg/Kg	1.00		84.6	40-140			
Surrogate: Decachlorobiphenyl	0.907		mg/Kg	1.00		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.992		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.847		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.876		mg/Kg	1.00		87.6	30-150			

LCS Dup (B186600-BSD1)

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	0.91	0.10	mg/Kg	1.00		91.5	40-140	7.22	30	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.1	40-140	3.73	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.8	40-140	5.94	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.2	40-140	3.06	30	
Surrogate: Decachlorobiphenyl	0.933		mg/Kg	1.00		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.921		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.924		mg/Kg	1.00		92.4	30-150			

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 B186600 - SW-846 3540C

Matrix Spike (B186600-MS1)

Source: 1710465-07

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	1.0	1.0	mg/Kg	1.00	ND	99.8	40-140			
Aroclor-1016 [2C]	1.0	1.0	mg/Kg	1.00	ND	101	40-140			
Aroclor-1260	0.84	1.0	mg/Kg	1.00	ND	84.3	40-140			
Aroclor-1260 [2C]	0.85	1.0	mg/Kg	1.00	ND	84.8	40-140			
Surrogate: Decachlorobiphenyl	0.700		mg/Kg	1.00		70.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.799		mg/Kg	1.00		79.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.894		mg/Kg	1.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.901		mg/Kg	1.00		90.1	30-150			

Matrix Spike Dup (B186600-MSD1)

Source: 1710465-07

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	0.94	1.0	mg/Kg	1.00	ND	94.3	40-140	5.66	50	
Aroclor-1016 [2C]	0.94	1.0	mg/Kg	1.00	ND	94.1	40-140	7.48	50	
Aroclor-1260	0.81	1.0	mg/Kg	1.00	ND	81.0	40-140	3.99	50	
Aroclor-1260 [2C]	0.81	1.0	mg/Kg	1.00	ND	80.9	40-140	4.64	50	
Surrogate: Decachlorobiphenyl	0.675		mg/Kg	1.00		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.775		mg/Kg	1.00		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.854		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.864		mg/Kg	1.00		86.4	30-150			

Batch B186606 - SW-846 3540C

Blank (B186606-BLK1)

Prepared: 09/19/17 Analyzed: 09/22/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.14		mg/Kg	1.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104	30-150			

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 B186606 - SW-846 3540C

LCS (B186606-BS1)

Prepared: 09/19/17 Analyzed: 09/22/17

Aroclor-1016	1.0	0.10	mg/Kg	1.00		101	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		104	40-140			
Aroclor-1260	0.96	0.10	mg/Kg	1.00		96.0	40-140			
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.1	40-140			
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104	30-150			

LCS Dup (B186606-BS1)

Prepared: 09/19/17 Analyzed: 09/22/17

Aroclor-1016	0.95	0.10	mg/Kg	1.00		94.8	40-140	6.81	30	
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00		96.3	40-140	8.14	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.7	40-140	7.91	30	
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00		82.5	40-140	6.53	30	
Surrogate: Decachlorobiphenyl	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.896		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.918		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.942		mg/Kg	1.00		94.2	30-150			

Matrix Spike (B186606-MS1)

Source: 1710465-21

Prepared: 09/19/17 Analyzed: 09/23/17

Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140			
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00	ND	96.5	40-140			
Aroclor-1260	0.99	0.10	mg/Kg	1.00	ND	98.5	40-140			
Aroclor-1260 [2C]	1.4	0.10	mg/Kg	1.00	ND	140	40-140			MS-22
Surrogate: Decachlorobiphenyl	0.733		mg/Kg	1.00		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.766		mg/Kg	1.00		76.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.807		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.865		mg/Kg	1.00		86.5	30-150			

Matrix Spike Dup (B186606-MSD1)

Source: 1710465-21

Prepared: 09/19/17 Analyzed: 09/23/17

Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140	0.0227	50	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00	ND	90.5	40-140	6.32	50	
Aroclor-1260	1.1	0.10	mg/Kg	1.00	ND	107	40-140	8.38	50	
Aroclor-1260 [2C]	1.5	0.10	mg/Kg	1.00	ND	152 *	40-140	8.28	50	MS-22
Surrogate: Decachlorobiphenyl	0.758		mg/Kg	1.00		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.807		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.843		mg/Kg	1.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.913		mg/Kg	1.00		91.3	30-150			

Batch B186709 - SW-846 3540C

Blank (B186709-BLK1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186709 - SW-846 3540C

Blank (B186709-BLK1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.10		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.10		mg/Kg	1.00		110	30-150			

LCS (B186709-BS1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1016	1.1	0.10	mg/Kg	1.00		109	40-140			
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		114	40-140			
Aroclor-1260	1.0	0.10	mg/Kg	1.00		102	40-140			
Aroclor-1260 [2C]	0.99	0.10	mg/Kg	1.00		99.0	40-140			
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	1.09		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.12		mg/Kg	1.00		112	30-150			

LCS Dup (B186709-BSD1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1016	1.0	0.10	mg/Kg	1.00		103	40-140	5.77	30	
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		108	40-140	4.58	30	
Aroclor-1260	0.99	0.10	mg/Kg	1.00		98.5	40-140	3.52	30	
Aroclor-1260 [2C]	0.93	0.10	mg/Kg	1.00		93.3	40-140	5.97	30	
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.08		mg/Kg	1.00		108	30-150			

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 B186613 - SW-846 3051										
Blank (B186613-BLK1)										
Prepared & Analyzed: 09/20/17										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	0.96	0.50	mg/Kg wet							B-07
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	2.6	1.0	mg/Kg wet							B-07
LCS (B186613-BS1)										
Prepared & Analyzed: 09/20/17										
Antimony	137	5.0	mg/Kg wet	146		93.7	0-210.3			
Arsenic	150	5.0	mg/Kg wet	157		95.3	77.8-122.1			
Barium	312	5.0	mg/Kg wet	339		92.0	82-117.4			
Beryllium	52.4	0.50	mg/Kg wet	58.3		89.9	82.3-117.7			
Cadmium	200	0.50	mg/Kg wet	216		92.8	81.9-118.2			
Chromium	81.7	1.0	mg/Kg wet	88.9		92.0	78.7-120.6			
Copper	179	1.0	mg/Kg wet	184		97.5	80.4-119.6			
Lead	94.8	1.5	mg/Kg wet	94.3		101	82.4-117.8			
Nickel	144	1.0	mg/Kg wet	154		93.5	82.2-117.8			B
Selenium	201	10	mg/Kg wet	207		97.1	77.1-122.3			
Silver	34.4	1.0	mg/Kg wet	43.8		78.4	74.3-125.4			
Thallium	153	5.0	mg/Kg wet	167		91.4	78.2-121.6			
Vanadium	86.0	2.0	mg/Kg wet	100		86.0	64.8-135.2			
Zinc	205	2.0	mg/Kg wet	209		98.0	79.7-120.8			B
LCS Dup (B186613-BSD1)										
Prepared & Analyzed: 09/20/17										
Antimony	155	5.0	mg/Kg wet	146		106	0-210.3	12.7	30	
Arsenic	158	5.0	mg/Kg wet	157		101	77.8-122.1	5.76	30	
Barium	335	5.0	mg/Kg wet	339		98.9	82-117.4	7.21	30	
Beryllium	58.3	0.50	mg/Kg wet	58.3		99.9	82.3-117.7	10.6	30	
Cadmium	223	0.50	mg/Kg wet	216		103	81.9-118.2	10.8	30	
Chromium	88.9	1.0	mg/Kg wet	88.9		100	78.7-120.6	8.40	30	
Copper	195	1.0	mg/Kg wet	184		106	80.4-119.6	8.30	30	
Lead	97.5	1.5	mg/Kg wet	94.3		103	82.4-117.8	2.79	30	
Nickel	161	1.0	mg/Kg wet	154		105	82.2-117.8	11.3	30	B
Selenium	214	10	mg/Kg wet	207		104	77.1-122.3	6.42	30	
Silver	36.8	1.0	mg/Kg wet	43.8		83.9	74.3-125.4	6.78	30	
Thallium	163	5.0	mg/Kg wet	167		97.7	78.2-121.6	6.68	30	
Vanadium	97.3	2.0	mg/Kg wet	100		97.3	64.8-135.2	12.4	30	
Zinc	225	2.0	mg/Kg wet	209		108	79.7-120.8	9.46	30	B

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 B186613 - SW-846 3051										
MRL Check (B186613-MRL1)					Prepared: 09/20/17 Analyzed: 09/21/17					
Lead	0.618	0.69	mg/Kg wet	0.689		89.7	80-120			
Batch B186623 - SW-846 7471										
Blank (B186623-BLK1)					Prepared & Analyzed: 09/20/17					
Mercury	ND	0.025	mg/Kg wet							
LCS (B186623-BS1)					Prepared & Analyzed: 09/20/17					
Mercury	9.90	1.9	mg/Kg wet	9.36		106	73.7-126.3			
LCS Dup (B186623-BSD1)					Prepared & Analyzed: 09/20/17					
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	3.63	30	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC15-SE-29

Lab Sample ID: 17I0465-23 Date(s) Analyzed: 09/21/2017 09/21/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.18	18.2
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.49	33.3

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-03	Elevated reporting limit due to matrix.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-12	Elevated reporting limit due to matrix interference.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
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
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Fluorene	CT,NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

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

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

English Station

510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotiak

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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-AOCIS - AS-21	9/12/17	1003	X		O	U
02	WS-AOCIS - AS-22		945				
03	WS-AOCIS - AS-23		944				
04	WS-AOCIS - AS-24		943				
05	WS-AOCIS - AS-25		941				
06	WS-AOCIS - AS-26		1011				
07	WS-AOCIS - AS-27		955				
08	WS-AOCIS - AS-28		957				
09	WS-AOCIS - AS-30		1019				
10	WS-AOCIS - AS-31		1020				

Comments: * - WS-AOCIS - AS-27 - Run MS/MSD
Duplicate

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

Relinquished by (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	9/12/17 1445	MA
Received by (signature)	Date/Time	
<i>[Signature]</i>	9/12/17	
Relinquished by (signature)	Date/Time	
<i>[Signature]</i>	9/12/17	CT
Received by (signature)	Date/Time	
<i>[Signature]</i>	9/12/17 1010	Other:
Relinquished by (signature)	Date/Time	
<i>[Signature]</i>	9/12/17	
Received by (signature)	Date/Time	
<i>[Signature]</i>	9/12/17	

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID #

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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

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

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

ANALYSIS REQUESTED

☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By RLF

Date 9/12/17

Time 11:10

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T MS/MSD? NA

Were trip blanks received? F Is splitting samples required? F

Do all samples have the proper pH? On COC? NA 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-	<u>1</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	<u>2</u>	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		<u>9/12/17 11:10</u>

Unused Media

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

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0465

Laboratory Sample ID(s):

17I0465-01 thru 17I0465-23

Sample Date(s):

09/12/2017

List RCP Methods Used:

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

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/28/17
Name of Laboratory: Con-Test Analytical Laboratory

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

October 5, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0637

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17I0637-01	5
17I0637-02	6
Sample Preparation Information	7
QC Data	8
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	8
B186778	8
Dual Column RPD Report	9
Flag/Qualifier Summary	11
Certifications	12
Chain of Custody/Sample Receipt	13

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

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

REPORT DATE: 10/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710637

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-CO-129	1710637-01	soil		SW-846 8082A	
WS-AOC12W-CO-130	1710637-02	soil		SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 10/05/17 - Sample IDs updated per client email.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

James M. Georgantas

Project Management Supervisor

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

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

Sample Description:

Work Order: 1710637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-129

Sampled: 9/14/2017 10:00

Sample ID: 1710637-01

Sample Matrix: soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	116	30-150							
Decachlorobiphenyl [2]	97.9	30-150							
Tetrachloro-m-xylene [1]	110	30-150							
Tetrachloro-m-xylene [2]	81.7	30-150							

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

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

Sample Description:

Work Order: 1710637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-130

Sampled: 9/14/2017 10:30

Sample ID: 1710637-02

Sample Matrix: soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	109	30-150							
Decachlorobiphenyl [2]	94.3	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	79.2	30-150							

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0637-01 [WS-AOC12W-CO-129]	B186778	2.33	10.0	09/21/17
17I0637-02 [WS-AOC12W-CO-130]	B186778	2.04	10.0	09/21/17

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

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186778 - SW-846 3540C
Blank (B186778-BLK1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.911		mg/Kg	1.00		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.789		mg/Kg	1.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.824		mg/Kg	1.00		82.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.693		mg/Kg	1.00		69.3	30-150			

LCS (B186778-BS1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	0.73	0.10	mg/Kg	1.00		72.9	40-140			
Aroclor-1016 [2C]	0.68	0.10	mg/Kg	1.00		67.8	40-140			
Aroclor-1260	0.68	0.10	mg/Kg	1.00		68.1	40-140			
Aroclor-1260 [2C]	0.66	0.10	mg/Kg	1.00		65.9	40-140			
Surrogate: Decachlorobiphenyl	0.853		mg/Kg	1.00		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.762		mg/Kg	1.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.780		mg/Kg	1.00		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.639		mg/Kg	1.00		63.9	30-150			

LCS Dup (B186778-BSD1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	0.84	0.10	mg/Kg	1.00		84.5	40-140	14.7	30	
Aroclor-1016 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140	15.4	30	
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140	12.4	30	
Aroclor-1260 [2C]	0.75	0.10	mg/Kg	1.00		75.1	40-140	13.1	30	
Surrogate: Decachlorobiphenyl	0.930		mg/Kg	1.00		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.802		mg/Kg	1.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.878		mg/Kg	1.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.697		mg/Kg	1.00		69.7	30-150			

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B186778-BS1 Date(s) Analyzed 09/26/2017 09/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.68	7.1
Aroclor-1260	1	0.000	0.000	0.000	0.68	
	2	0.000	0.000	0.000	0.66	3.0

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

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

Lab Sample ID: B186778-BSD1 Date(s) Analyzed 09/26/2017 09/26/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.79	7.3
Aroclor-1260	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.75	2.6

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

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.	

CERTIFICATIONS
Certified Analyses included in this Report

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

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

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

Page 13 of 15

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



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.1
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tapered with? N/A

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

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

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

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

Are Sample labels filled out and legible? T

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

Are there Rushes? N/A Who was notified?

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

Is there enough Volume? T

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

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

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

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

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

Unused Media

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

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0637

Laboratory Sample ID(s):

17I0637-01 thru 17I0637-02

Sample Date(s):

09/14/2017

List RCP Methods Used:

SW-846 8082A

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/27/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 27, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0637

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17I0637-01	5
17I0637-02	6
Sample Preparation Information	7
QC Data	8
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	8
B186778	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11

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

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

REPORT DATE: 9/27/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710637

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-CO-126	1710637-01	Product/Solid		SW-846 8082A	
WS-AOC12W-CO-127	1710637-02	Product/Solid		SW-846 8082A	

CASE NARRATIVE SUMMARY

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

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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light pink rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-126

Sampled: 9/14/2017 10:00

Sample ID: 1710637-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	116	30-150							
Decachlorobiphenyl [2]	97.9	30-150							
Tetrachloro-m-xylene [1]	110	30-150							
Tetrachloro-m-xylene [2]	81.7	30-150							

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

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

Sample Description:

Work Order: 1710637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-127

Sampled: 9/14/2017 10:30

Sample ID: 1710637-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	109	30-150							
Decachlorobiphenyl [2]	94.3	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	79.2	30-150							

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0637-01 [WS-AOC12W-CO-126]	B186778	2.33	10.0	09/21/17
17I0637-02 [WS-AOC12W-CO-127]	B186778	2.04	10.0	09/21/17

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

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186778 - SW-846 3540C
Blank (B186778-BLK1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.911		mg/Kg	1.00		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.789		mg/Kg	1.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.824		mg/Kg	1.00		82.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.693		mg/Kg	1.00		69.3	30-150			

LCS (B186778-BS1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	0.73	0.10	mg/Kg	1.00		72.9	40-140			
Aroclor-1016 [2C]	0.68	0.10	mg/Kg	1.00		67.8	40-140			
Aroclor-1260	0.68	0.10	mg/Kg	1.00		68.1	40-140			
Aroclor-1260 [2C]	0.66	0.10	mg/Kg	1.00		65.9	40-140			
Surrogate: Decachlorobiphenyl	0.853		mg/Kg	1.00		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.762		mg/Kg	1.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.780		mg/Kg	1.00		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.639		mg/Kg	1.00		63.9	30-150			

LCS Dup (B186778-BSD1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	0.84	0.10	mg/Kg	1.00		84.5	40-140	14.7	30	
Aroclor-1016 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140	15.4	30	
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140	12.4	30	
Aroclor-1260 [2C]	0.75	0.10	mg/Kg	1.00		75.1	40-140	13.1	30	
Surrogate: Decachlorobiphenyl	0.930		mg/Kg	1.00		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.802		mg/Kg	1.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.878		mg/Kg	1.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.697		mg/Kg	1.00		69.7	30-150			

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

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.

CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

Page 11 of 13

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



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.1
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tapered with? N/A

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

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

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

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

Are Sample labels filled out and legible? T

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

Are there Rushes? N/A Who was notified?

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

Is there enough Volume? T

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

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

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

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

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

Unused Media

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

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0637

Laboratory Sample ID(s):

17I0637-01 thru 17I0637-02

Sample Date(s):

09/14/2017

List RCP Methods Used:

SW-846 8082A

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/27/17
Name of Laboratory: Con-Test Analytical Laboratory

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

October 2, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0642

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17I0642-01	6
17I0642-02	9
17I0642-03	12
17I0642-04	15
17I0642-05	18
17I0642-06	21
17I0642-07	24
17I0642-08	27
17I0642-09	30
17I0642-10	33
17I0642-11	36
17I0642-12	39
17I0642-13	42
17I0642-14	45
17I0642-15	48
17I0642-16	51
17I0642-17	54
17I0642-18	57
Sample Preparation Information	60
QC Data	62
Semivolatile Organic Compounds by GC/MS	62
B186760	62

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	64
B186775	64
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	67
B186579	67
SPLP - Semivolatile Organic Compounds by GC/MS	68
B186907	68
SPLP - Polychlorinated Biphenyls By GC/ECD	70
B186875	70
Dual Column RPD Report	72
Flag/Qualifier Summary	82
Certifications	83
Chain of Custody/Sample Receipt	85

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

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

REPORT DATE: 10/2/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710642

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-9-SO-41-3R	1710642-01	Soil		SM 2540G SW-846 8270D	
WS-AOC-9-SO-45-1R	1710642-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-45-2R	1710642-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-48-1R	1710642-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-31-2AR	1710642-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-31-2BR	1710642-06	Soil		SM 2540G SW-846 8270D	
WS-AOC-12W-SO-39-4R	1710642-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-85-2R	1710642-08	Soil		SM 2540G SW-846 8270D	
WS-AOC-12W-SO-89-4R	1710642-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-92-4R	1710642-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-93-2R	1710642-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-94-2R	1710642-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-97-2R	1710642-13	Soil		SM 2540G SW-846 8270D	
WS-AOC-12W-SO-98-4R	1710642-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-DUP63	1710642-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-DUP64	1710642-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-DUP65	1710642-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-DUP66	1710642-18	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A**Qualifications:****MS-09**

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

Analyte & Samples(s) Qualified:**Aroclor-1260 [2C]**

B186775-MS3, B186775-MSD3

MS-19

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

Analyte & Samples(s) Qualified:**Aroclor-1260**

B186775-MS2, B186775-MS3, B186775-MSD2, B186775-MSD3

Aroclor-1260 [2C]

B186775-MS2, B186775-MSD2

SW-846 8270D**Qualifications:****B**

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

Analyte & Samples(s) Qualified:**Phenanthrene (SIM)**

17I0642-01[WS-AOC-9-SO-41-3R], 17I0642-06[WS-AOC-12E-SO-31-2BR], 17I0642-08[WS-AOC-12W-SO-85-2R], 17I0642-13[WS-AOC-12W-SO-97-2R],

B186907-BLK1, B186907-BS1, B186907-BSD1, B186907-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-41-3R

Sampled: 9/14/2017 11:45

Sample ID: 1710642-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Acenaphthylene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Anthracene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(a)anthracene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(a)pyrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(b)fluoranthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(g,h,i)perylene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(k)fluoranthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Chrysene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Dibenz(a,h)anthracene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Fluoranthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Fluorene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
2-Methylnaphthalene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Naphthalene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Phenanthrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Pyrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	69.8	30-130						9/25/17 15:02	
2-Fluorobiphenyl	83.4	30-130						9/25/17 15:02	
p-Terphenyl-d14	93.6	30-130						9/25/17 15:02	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-41-3R

Sampled: 9/14/2017 11:45

Sample ID: 1710642-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	64.1		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-41-3R

Sampled: 9/14/2017 11:45

Sample ID: 1710642-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Phenanthrene (SIM)	0.16	0.050	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	82.9	30-130						9/26/17 15:34	
2-Fluorobiphenyl	83.1	30-130						9/26/17 15:34	
p-Terphenyl-d14	70.0	30-130						9/26/17 15:34	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-1R

Sampled: 9/14/2017 12:30

Sample ID: 1710642-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1254 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1260 [1]	1.1	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1268 [2]	0.66	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.0	30-150							
Decachlorobiphenyl [2]	98.7	30-150							
Tetrachloro-m-xylene [1]	79.8	30-150							
Tetrachloro-m-xylene [2]	90.7	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-1R

Sampled: 9/14/2017 12:30

Sample ID: 1710642-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-1R

Sampled: 9/14/2017 12:30

Sample ID: 1710642-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.9	30-150							
Decachlorobiphenyl [2]	79.1	30-150							
Tetrachloro-m-xylene [1]	89.3	30-150							
Tetrachloro-m-xylene [2]	80.8	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-2R

Sampled: 9/14/2017 12:31

Sample ID: 1710642-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	68.1	30-150						9/26/17 17:25	
Decachlorobiphenyl [2]	77.6	30-150						9/26/17 17:25	
Tetrachloro-m-xylene [1]	66.2	30-150						9/26/17 17:25	
Tetrachloro-m-xylene [2]	66.4	30-150						9/26/17 17:25	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-2R

Sampled: 9/14/2017 12:31

Sample ID: 1710642-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-2R

Sampled: 9/14/2017 12:31

Sample ID: 1710642-03

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	99.2	30-150						9/28/17 22:44	
Decachlorobiphenyl [2]	84.1	30-150						9/28/17 22:44	
Tetrachloro-m-xylene [1]	94.0	30-150						9/28/17 22:44	
Tetrachloro-m-xylene [2]	84.2	30-150						9/28/17 22:44	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-48-1R

Sampled: 9/14/2017 10:51

Sample ID: 1710642-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1260 [2]	0.17	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1268 [2]	0.12	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.1	30-150							
Decachlorobiphenyl [2]	81.8	30-150							
Tetrachloro-m-xylene [1]	77.3	30-150							
Tetrachloro-m-xylene [2]	70.9	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-48-1R

Sampled: 9/14/2017 10:51

Sample ID: 1710642-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-48-1R

Sampled: 9/14/2017 10:51

Sample ID: 1710642-04

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.3	30-150							
Decachlorobiphenyl [2]	69.8	30-150							
Tetrachloro-m-xylene [1]	83.8	30-150							
Tetrachloro-m-xylene [2]	74.7	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2AR

Sampled: 9/14/2017 12:48

Sample ID: 1710642-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1268 [1]	0.70	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.0	30-150							
Decachlorobiphenyl [2]	70.8	30-150							
Tetrachloro-m-xylene [1]	67.8	30-150							
Tetrachloro-m-xylene [2]	64.5	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2AR

Sampled: 9/14/2017 12:48

Sample ID: 1710642-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2AR

Sampled: 9/14/2017 12:48

Sample ID: 1710642-05

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.8	30-150							
Decachlorobiphenyl [2]	76.5	30-150							
Tetrachloro-m-xylene [1]	87.2	30-150							
Tetrachloro-m-xylene [2]	78.0	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2BR

Sampled: 9/14/2017 12:49

Sample ID: 1710642-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(a)anthracene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(a)pyrene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(b)fluoranthene	0.56	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(g,h,i)perylene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(k)fluoranthene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Chrysene	0.61	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Fluoranthene	0.94	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Indeno(1,2,3-cd)pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Phenanthrene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Pyrene	0.96	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	51.9	30-130							
2-Fluorobiphenyl	62.6	30-130							
p-Terphenyl-d14	81.7	30-130							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2BR

Sampled: 9/14/2017 12:49

Sample ID: 1710642-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2BR

Sampled: 9/14/2017 12:49

Sample ID: 1710642-06

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Phenanthrene (SIM)	0.15	0.050	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Nitrobenzene-d5	73.5		30-130				9/26/17 16:03		
2-Fluorobiphenyl	75.4		30-130				9/26/17 16:03		
p-Terphenyl-d14	63.3		30-130				9/26/17 16:03		

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-39-4R

Sampled: 9/14/2017 14:58

Sample ID: 1710642-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.9	30-150							
Decachlorobiphenyl [2]	64.0	30-150							
Tetrachloro-m-xylene [1]	67.5	30-150							
Tetrachloro-m-xylene [2]	63.0	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-39-4R

Sampled: 9/14/2017 14:58

Sample ID: 1710642-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.6		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-39-4R

Sampled: 9/14/2017 14:58

Sample ID: 1710642-07

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150							
Decachlorobiphenyl [2]	69.7	30-150							
Tetrachloro-m-xylene [1]	90.5	30-150							
Tetrachloro-m-xylene [2]	84.1	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-85-2R

Sampled: 9/14/2017 14:47

Sample ID: 1710642-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(a)anthracene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(a)pyrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(b)fluoranthene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Chrysene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Fluoranthene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
2-Methylnaphthalene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Naphthalene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Phenanthrene	0.68	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Pyrene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	58.4	30-130							
2-Fluorobiphenyl	62.5	30-130							
p-Terphenyl-d14	78.0	30-130							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-85-2R

Sampled: 9/14/2017 14:47

Sample ID: 1710642-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-85-2R

Sampled: 9/14/2017 14:47

Sample ID: 1710642-08

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(b)fluoranthene (SIM)	0.057	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Phenanthrene (SIM)	1.0	0.050	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	70.0	30-130							
2-Fluorobiphenyl	73.4	30-130							
p-Terphenyl-d14	62.9	30-130							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-89-4R

Sampled: 9/14/2017 14:00

Sample ID: 1710642-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1254 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1260 [1]	2.9	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	61.7	30-150							
Decachlorobiphenyl [2]	61.2	30-150							
Tetrachloro-m-xylene [1]	83.7	30-150							
Tetrachloro-m-xylene [2]	81.7	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-89-4R

Sampled: 9/14/2017 14:00

Sample ID: 1710642-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.8		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-89-4R

Sampled: 9/14/2017 14:00

Sample ID: 1710642-09

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	98.7	30-150							
Decachlorobiphenyl [2]	88.4	30-150							
Tetrachloro-m-xylene [1]	85.8	30-150							
Tetrachloro-m-xylene [2]	80.8	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-92-4R

Sampled: 9/14/2017 14:24

Sample ID: 1710642-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1260 [1]	1.1	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	49.5	30-150						9/26/17 18:56	
Decachlorobiphenyl [2]	45.7	30-150						9/26/17 18:56	
Tetrachloro-m-xylene [1]	61.6	30-150						9/26/17 18:56	
Tetrachloro-m-xylene [2]	58.7	30-150						9/26/17 18:56	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-92-4R

Sampled: 9/14/2017 14:24

Sample ID: 1710642-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-92-4R

Sampled: 9/14/2017 14:24

Sample ID: 1710642-10

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	89.9	30-150							
Tetrachloro-m-xylene [1]	85.4	30-150							
Tetrachloro-m-xylene [2]	78.6	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-93-2R

Sampled: 9/14/2017 13:17

Sample ID: 1710642-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	65.4	30-150							
Decachlorobiphenyl [2]	61.0	30-150							
Tetrachloro-m-xylene [1]	74.0	30-150							
Tetrachloro-m-xylene [2]	71.3	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-93-2R

Sampled: 9/14/2017 13:17

Sample ID: 1710642-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-93-2R

Sampled: 9/14/2017 13:17

Sample ID: 1710642-11

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.7	30-150							
Decachlorobiphenyl [2]	82.2	30-150							
Tetrachloro-m-xylene [1]	89.8	30-150							
Tetrachloro-m-xylene [2]	81.0	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-94-2R

Sampled: 9/14/2017 13:26

Sample ID: 1710642-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1260 [2]	0.27	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.5	30-150							
Decachlorobiphenyl [2]	78.7	30-150							
Tetrachloro-m-xylene [1]	84.7	30-150							
Tetrachloro-m-xylene [2]	85.0	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-94-2R

Sampled: 9/14/2017 13:26

Sample ID: 1710642-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-94-2R

Sampled: 9/14/2017 13:26

Sample ID: 1710642-12

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.4	30-150							
Decachlorobiphenyl [2]	82.0	30-150							
Tetrachloro-m-xylene [1]	92.1	30-150							
Tetrachloro-m-xylene [2]	83.4	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-97-2R

Sampled: 9/14/2017 13:09

Sample ID: 1710642-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	69.2	30-130						9/22/17 22:53	
2-Fluorobiphenyl	84.1	30-130						9/22/17 22:53	
p-Terphenyl-d14	98.2	30-130						9/22/17 22:53	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-97-2R

Sampled: 9/14/2017 13:09

Sample ID: 1710642-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-97-2R

Sampled: 9/14/2017 13:09

Sample ID: 1710642-13

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.28	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Acenaphthylene (SIM)	ND	0.28	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(a)anthracene (SIM)	ND	0.047	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(a)pyrene (SIM)	ND	0.094	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(b)fluoranthene (SIM)	ND	0.047	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.47	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Fluoranthene (SIM)	ND	0.47	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Fluorene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
2-Methylnaphthalene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Naphthalene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Phenanthrene (SIM)	0.072	0.047	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Pyrene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Nitrobenzene-d5	69.4		30-130				9/26/17 18:00		
2-Fluorobiphenyl	74.3		30-130				9/26/17 18:00		
p-Terphenyl-d14	69.0		30-130				9/26/17 18:00		

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-98-4R

Sampled: 9/14/2017 13:46

Sample ID: 1710642-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1260 [1]	0.66	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.5	30-150							
Decachlorobiphenyl [2]	56.9	30-150							
Tetrachloro-m-xylene [1]	70.3	30-150							
Tetrachloro-m-xylene [2]	66.2	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-98-4R

Sampled: 9/14/2017 13:46

Sample ID: 1710642-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-98-4R

Sampled: 9/14/2017 13:46

Sample ID: 1710642-14

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.8	30-150						9/29/17 0:58	
Decachlorobiphenyl [2]	66.6	30-150						9/29/17 0:58	
Tetrachloro-m-xylene [1]	88.6	30-150						9/29/17 0:58	
Tetrachloro-m-xylene [2]	77.1	30-150						9/29/17 0:58	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-DUP63

Sampled: 9/14/2017 00:00

Sample ID: 1710642-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1260 [2]	0.11	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150							
Decachlorobiphenyl [2]	79.4	30-150							
Tetrachloro-m-xylene [1]	75.7	30-150							
Tetrachloro-m-xylene [2]	73.7	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-DUP63

Sampled: 9/14/2017 00:00

Sample ID: 1710642-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-DUP63

Sampled: 9/14/2017 00:00

Sample ID: 1710642-15

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.2	30-150						9/29/17 1:11	
Decachlorobiphenyl [2]	74.7	30-150						9/29/17 1:11	
Tetrachloro-m-xylene [1]	87.8	30-150						9/29/17 1:11	
Tetrachloro-m-xylene [2]	78.5	30-150						9/29/17 1:11	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP64

Sampled: 9/14/2017 00:00

Sample ID: 1710642-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	39.9	30-150							
Decachlorobiphenyl [2]	39.4	30-150							
Tetrachloro-m-xylene [1]	39.3	30-150							
Tetrachloro-m-xylene [2]	39.7	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP64

Sampled: 9/14/2017 00:00

Sample ID: 1710642-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP64

Sampled: 9/14/2017 00:00

Sample ID: 1710642-16

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.9	30-150						9/29/17 1:25	
Decachlorobiphenyl [2]	82.6	30-150						9/29/17 1:25	
Tetrachloro-m-xylene [1]	85.4	30-150						9/29/17 1:25	
Tetrachloro-m-xylene [2]	77.0	30-150						9/29/17 1:25	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP65

Sampled: 9/14/2017 00:00

Sample ID: 1710642-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1260 [2]	0.34	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.5	30-150							
Decachlorobiphenyl [2]	85.8	30-150							
Tetrachloro-m-xylene [1]	84.2	30-150							
Tetrachloro-m-xylene [2]	82.5	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP65

Sampled: 9/14/2017 00:00

Sample ID: 1710642-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP65

Sampled: 9/14/2017 00:00

Sample ID: 1710642-17

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	101	30-150						9/29/17 1:38	
Decachlorobiphenyl [2]	86.3	30-150						9/29/17 1:38	
Tetrachloro-m-xylene [1]	91.9	30-150						9/29/17 1:38	
Tetrachloro-m-xylene [2]	82.6	30-150						9/29/17 1:38	

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP66

Sampled: 9/14/2017 00:00

Sample ID: 1710642-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1221 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1232 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1242 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1248 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1254 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1260 [1]	2.0	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1262 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1268 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.8	30-150							
Decachlorobiphenyl [2]	77.5	30-150							
Tetrachloro-m-xylene [1]	90.1	30-150							
Tetrachloro-m-xylene [2]	90.2	30-150							

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP66

Sampled: 9/14/2017 00:00

Sample ID: 1710642-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

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

Sample Description:

Work Order: 1710642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP66

Sampled: 9/14/2017 00:00

Sample ID: 1710642-18

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	103	30-150							
Decachlorobiphenyl [2]	87.8	30-150							
Tetrachloro-m-xylene [1]	95.1	30-150							
Tetrachloro-m-xylene [2]	82.4	30-150							

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0642-01 [WS-AOC-9-SO-41-3R]	B186579	09/19/17
17I0642-02 [WS-AOC-9-SO-45-1R]	B186579	09/19/17
17I0642-03 [WS-AOC-9-SO-45-2R]	B186579	09/19/17
17I0642-04 [WS-AOC-9-SO-48-1R]	B186579	09/19/17
17I0642-05 [WS-AOC-12E-SO-31-2AR]	B186579	09/19/17
17I0642-06 [WS-AOC-12E-SO-31-2BR]	B186579	09/19/17
17I0642-07 [WS-AOC-12W-SO-39-4R]	B186579	09/19/17
17I0642-08 [WS-AOC-12W-SO-85-2R]	B186579	09/19/17
17I0642-09 [WS-AOC-12W-SO-89-4R]	B186579	09/19/17
17I0642-10 [WS-AOC-12W-SO-92-4R]	B186579	09/19/17
17I0642-11 [WS-AOC-12W-SO-93-2R]	B186579	09/19/17
17I0642-12 [WS-AOC-12W-SO-94-2R]	B186579	09/19/17
17I0642-13 [WS-AOC-12W-SO-97-2R]	B186579	09/19/17
17I0642-14 [WS-AOC-12W-SO-98-4R]	B186579	09/19/17
17I0642-15 [WS-AOC-9-SO-DUP63]	B186579	09/19/17
17I0642-16 [WS-AOC-12W-DUP64]	B186579	09/19/17
17I0642-17 [WS-AOC-12W-DUP65]	B186579	09/19/17
17I0642-18 [WS-AOC-12W-DUP66]	B186579	09/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0642-02 [WS-AOC-9-SO-45-1R]	B186775	10.2	10.0	09/21/17
17I0642-03 [WS-AOC-9-SO-45-2R]	B186775	10.1	10.0	09/21/17
17I0642-04 [WS-AOC-9-SO-48-1R]	B186775	10.3	10.0	09/21/17
17I0642-05 [WS-AOC-12E-SO-31-2AR]	B186775	10.3	10.0	09/21/17
17I0642-07 [WS-AOC-12W-SO-39-4R]	B186775	10.1	10.0	09/21/17
17I0642-09 [WS-AOC-12W-SO-89-4R]	B186775	10.1	10.0	09/21/17
17I0642-10 [WS-AOC-12W-SO-92-4R]	B186775	10.3	10.0	09/21/17
17I0642-11 [WS-AOC-12W-SO-93-2R]	B186775	10.3	10.0	09/21/17
17I0642-12 [WS-AOC-12W-SO-94-2R]	B186775	10.1	10.0	09/21/17
17I0642-14 [WS-AOC-12W-SO-98-4R]	B186775	10.3	10.0	09/21/17
17I0642-15 [WS-AOC-9-SO-DUP63]	B186775	10.3	10.0	09/21/17
17I0642-16 [WS-AOC-12W-DUP64]	B186775	10.3	10.0	09/21/17
17I0642-17 [WS-AOC-12W-DUP65]	B186775	10.1	10.0	09/21/17
17I0642-18 [WS-AOC-12W-DUP66]	B186775	10.1	10.0	09/21/17

Prep Method: SW-846 3510C-SW-846 8082A
Leachates were extracted on 9/21/2017 per SW-846 1312 in Batch B186758

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0642-02 [WS-AOC-9-SO-45-1R]	B186875	500	5.00	09/22/17
17I0642-03 [WS-AOC-9-SO-45-2R]	B186875	500	5.00	09/22/17
17I0642-04 [WS-AOC-9-SO-48-1R]	B186875	500	5.00	09/22/17
17I0642-05 [WS-AOC-12E-SO-31-2AR]	B186875	500	5.00	09/22/17
17I0642-07 [WS-AOC-12W-SO-39-4R]	B186875	500	5.00	09/22/17
17I0642-09 [WS-AOC-12W-SO-89-4R]	B186875	500	5.00	09/22/17
17I0642-10 [WS-AOC-12W-SO-92-4R]	B186875	500	5.00	09/22/17
17I0642-11 [WS-AOC-12W-SO-93-2R]	B186875	500	5.00	09/22/17
17I0642-12 [WS-AOC-12W-SO-94-2R]	B186875	500	5.00	09/22/17
17I0642-14 [WS-AOC-12W-SO-98-4R]	B186875	500	5.00	09/22/17
17I0642-15 [WS-AOC-9-SO-DUP63]	B186875	500	5.00	09/22/17
17I0642-16 [WS-AOC-12W-DUP64]	B186875	500	5.00	09/22/17
17I0642-17 [WS-AOC-12W-DUP65]	B186875	500	5.00	09/22/17

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

Sample Extraction Data**Prep Method: SW-846 3510C-SW-846 8082A****Leachates were extracted on 9/21/2017 per SW-846 1312 in Batch B186758**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0642-18 [WS-AOC-12W-DUP66]	B186875	500	5.00	09/22/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0642-01 [WS-AOC-9-SO-41-3R]	B186760	30.0	1.00	09/21/17
17I0642-06 [WS-AOC-12E-SO-31-2BR]	B186760	30.0	1.00	09/21/17
17I0642-08 [WS-AOC-12W-SO-85-2R]	B186760	30.1	1.00	09/21/17
17I0642-13 [WS-AOC-12W-SO-97-2R]	B186760	30.0	1.00	09/21/17

Prep Method: SW-846 3510C-SW-846 8270D**Leachates were extracted on 9/21/2017 per SW-846 1312 in Batch B186758**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0642-01 [WS-AOC-9-SO-41-3R]	B186907	1000	1.00	09/23/17
17I0642-06 [WS-AOC-12E-SO-31-2BR]	B186907	1000	1.00	09/23/17
17I0642-08 [WS-AOC-12W-SO-85-2R]	B186907	1000	1.00	09/23/17
17I0642-13 [WS-AOC-12W-SO-97-2R]	B186907	960	0.900	09/23/17

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186760 - SW-846 3546
Blank (B186760-BLK1)

Prepared: 09/21/17 Analyzed: 09/22/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.91		mg/Kg wet	3.33		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.13		mg/Kg wet	3.33		63.8	30-130			
Surrogate: p-Terphenyl-d14	2.71		mg/Kg wet	3.33		81.4	30-130			

LCS (B186760-BS1)

Prepared: 09/21/17 Analyzed: 09/22/17

Acenaphthene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140			
Acenaphthylene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140			
Anthracene	0.988	0.17	mg/Kg wet	1.67		59.3	40-140			
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Benzo(a)pyrene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(b)fluoranthene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Chrysene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Indeno(1,2,3-cd)pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Naphthalene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Phenanthrene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Pyrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Surrogate: Nitrobenzene-d5	2.07		mg/Kg wet	3.33		62.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.40		mg/Kg wet	3.33		72.0	30-130			
Surrogate: p-Terphenyl-d14	2.73		mg/Kg wet	3.33		81.9	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186760 - SW-846 3546										
LCS Dup (B186760-BSD1)					Prepared: 09/21/17 Analyzed: 09/22/17					
Acenaphthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140	8.53	30	
Acenaphthylene	0.966	0.17	mg/Kg wet	1.67		58.0	40-140	6.89	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	9.11	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	7.03	30	
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	5.89	30	
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	9.12	30	
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	7.72	30	
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	6.44	30	
Chrysene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	8.50	30	
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	9.87	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	7.89	30	
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	7.65	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	5.67	30	
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	8.68	30	
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140	7.90	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	9.00	30	
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	7.81	30	
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		77.9	30-130			
Surrogate: p-Terphenyl-d14	2.95		mg/Kg wet	3.33		88.5	30-130			

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 B186775 - SW-846 3540C
Blank (B186775-BLK1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.147		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.131		mg/Kg wet	0.200		65.6	30-150			

LCS (B186775-BS1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.5	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.1	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.6	40-140			
Surrogate: Decachlorobiphenyl	0.157		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.1	30-150			

LCS Dup (B186775-BSD1)

Prepared: 09/21/17 Analyzed: 09/26/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	1.03	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	0.328	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.8	40-140	0.285	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140	0.369	30	
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.3	30-150			

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 B186775 - SW-846 3540C										
Matrix Spike (B186775-MS1) Source: 1710642-07 Prepared: 09/21/17 Analyzed: 09/26/17										
Aroclor-1016	0.17	0.11	mg/Kg dry	0.266	ND	63.4	40-140			
Aroclor-1016 [2C]	0.16	0.11	mg/Kg dry	0.266	ND	60.3	40-140			
Aroclor-1260	0.17	0.11	mg/Kg dry	0.266	ND	64.7	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.266	ND	65.3	40-140			
Surrogate: Decachlorobiphenyl	0.134		mg/Kg dry	0.266		50.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.137		mg/Kg dry	0.266		51.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg dry	0.266		57.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg dry	0.266		54.7	30-150			
Matrix Spike (B186775-MS2) Source: 1710642-09 Prepared: 09/21/17 Analyzed: 09/26/17										
Aroclor-1016	0.14	0.10	mg/Kg dry	0.258	ND	54.0	40-140			
Aroclor-1016 [2C]	0.13	0.10	mg/Kg dry	0.258	ND	52.3	40-140			
Aroclor-1260	0.60	0.10	mg/Kg dry	0.258	2.9	-893 *	40-140			MS-19
Aroclor-1260 [2C]	0.52	0.10	mg/Kg dry	0.258	2.4	-723 *	40-140			MS-19
Surrogate: Decachlorobiphenyl	0.102		mg/Kg dry	0.258		39.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0998		mg/Kg dry	0.258		38.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.126		mg/Kg dry	0.258		48.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.120		mg/Kg dry	0.258		46.4	30-150			
Matrix Spike (B186775-MS3) Source: 1710642-10 Prepared: 09/21/17 Analyzed: 09/26/17										
Aroclor-1016	0.12	0.10	mg/Kg dry	0.253	ND	47.9	40-140			
Aroclor-1016 [2C]	0.10	0.10	mg/Kg dry	0.253	ND	40.0	40-140			
Aroclor-1260	0.88	0.10	mg/Kg dry	0.253	1.1	-94.1 *	40-140			MS-19
Aroclor-1260 [2C]	0.71	0.10	mg/Kg dry	0.253	0.90	-74.9 *	40-140			MS-09
Surrogate: Decachlorobiphenyl	0.0811		mg/Kg dry	0.253		32.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.107		mg/Kg dry	0.253		42.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.103		mg/Kg dry	0.253		40.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0969		mg/Kg dry	0.253		38.3	30-150			
Matrix Spike Dup (B186775-MSD1) Source: 1710642-07 Prepared: 09/21/17 Analyzed: 09/26/17										
Aroclor-1016	0.15	0.10	mg/Kg dry	0.256	ND	58.3	40-140	12.2	50	
Aroclor-1016 [2C]	0.14	0.10	mg/Kg dry	0.256	ND	54.7	40-140	13.6	50	
Aroclor-1260	0.16	0.10	mg/Kg dry	0.256	ND	62.1	40-140	7.89	50	
Aroclor-1260 [2C]	0.15	0.10	mg/Kg dry	0.256	ND	60.3	40-140	11.9	50	
Surrogate: Decachlorobiphenyl	0.132		mg/Kg dry	0.256		51.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.127		mg/Kg dry	0.256		49.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.139		mg/Kg dry	0.256		54.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.129		mg/Kg dry	0.256		50.3	30-150			
Matrix Spike Dup (B186775-MSD2) Source: 1710642-09 Prepared: 09/21/17 Analyzed: 09/26/17										
Aroclor-1016	0.16	0.098	mg/Kg dry	0.246	ND	63.4	40-140		50	
Aroclor-1016 [2C]	0.14	0.098	mg/Kg dry	0.246	ND	55.6	40-140		50	
Aroclor-1260	0.72	0.098	mg/Kg dry	0.246	2.9	-888 *	40-140	18.2	50	MS-19
Aroclor-1260 [2C]	0.56	0.098	mg/Kg dry	0.246	2.4	-743 *	40-140	7.44	50	MS-19
Surrogate: Decachlorobiphenyl	0.125		mg/Kg dry	0.246		51.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.105		mg/Kg dry	0.246		42.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg dry	0.246		61.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.134		mg/Kg dry	0.246		54.3	30-150			

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 B186775 - SW-846 3540C

Matrix Spike Dup (B186775-MSD3)		Source: 1710642-10		Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.12	0.10	mg/Kg dry	0.250	ND	48.9	40-140	1.14	50	
Aroclor-1016 [2C]	0.11	0.10	mg/Kg dry	0.250	ND	43.2	40-140	6.55	50	
Aroclor-1260	1.1	0.10	mg/Kg dry	0.250	1.1	-17.5	* 40-140	19.9	50	MS-19
Aroclor-1260 [2C]	0.84	0.10	mg/Kg dry	0.250	0.90	-24.0	* 40-140	16.7	50	MS-09
Surrogate: Decachlorobiphenyl	0.0848		mg/Kg dry	0.250		33.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0986		mg/Kg dry	0.250		39.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.109		mg/Kg dry	0.250		43.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.100		mg/Kg dry	0.250		40.0	30-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186579 - % Solids

Duplicate (B186579-DUP2)		Source: 1710642-07		Prepared & Analyzed: 09/19/17						
% Solids	76.5		% Wt		73.6			3.86	20	
Duplicate (B186579-DUP3)		Source: 1710642-09		Prepared & Analyzed: 09/19/17						
% Solids	73.9		% Wt		76.8			3.85	20	
Duplicate (B186579-DUP4)		Source: 1710642-10		Prepared & Analyzed: 09/19/17						
% Solids	71.7		% Wt		78.3			8.80	20	

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

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186907 - SW-846 3510C										
Blank (B186907-BLK1)				Prepared: 09/23/17 Analyzed: 09/26/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	0.089	0.050	µg/L							B
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	76.9		µg/L	100		76.9	30-130			
Surrogate: 2-Fluorobiphenyl	82.2		µg/L	100		82.2	30-130			
Surrogate: p-Terphenyl-d14	70.0		µg/L	100		70.0	30-130			
LCS (B186907-BS1)				Prepared: 09/23/17 Analyzed: 09/26/17						
Acenaphthene (SIM)	41.3	7.5	µg/L	50.0		82.6	40-140			
Acenaphthylene (SIM)	40.2	7.5	µg/L	50.0		80.5	40-140			
Anthracene (SIM)	43.1	5.0	µg/L	50.0		86.2	40-140			
Benzo(a)anthracene (SIM)	43.6	1.2	µg/L	50.0		87.1	40-140			
Benzo(a)pyrene (SIM)	44.6	2.5	µg/L	50.0		89.3	40-140			
Benzo(b)fluoranthene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Benzo(g,h,i)perylene (SIM)	44.8	12	µg/L	50.0		89.6	40-140			
Benzo(k)fluoranthene (SIM)	43.5	5.0	µg/L	50.0		87.0	40-140			
Chrysene (SIM)	44.0	5.0	µg/L	50.0		88.1	40-140			
Dibenz(a,h)anthracene (SIM)	41.8	5.0	µg/L	50.0		83.5	40-140			
Fluoranthene (SIM)	43.8	12	µg/L	50.0		87.7	40-140			
Fluorene (SIM)	41.6	25	µg/L	50.0		83.3	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	43.8	5.0	µg/L	50.0		87.5	40-140			
2-Methylnaphthalene (SIM)	38.5	25	µg/L	50.0		77.0	40-140			
Naphthalene (SIM)	37.1	25	µg/L	50.0		74.2	40-140			
Phenanthrene (SIM)	42.0	1.2	µg/L	50.0		84.0	40-140			B
Pyrene (SIM)	44.0	25	µg/L	50.0		88.0	40-140			
Surrogate: Nitrobenzene-d5	89.5		µg/L	100		89.5	30-130			
Surrogate: 2-Fluorobiphenyl	89.2		µg/L	100		89.2	30-130			
Surrogate: p-Terphenyl-d14	86.8		µg/L	100		86.8	30-130			

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

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186907 - SW-846 3510C										
LCS Dup (B186907-BSD1)										
Prepared: 09/23/17 Analyzed: 09/26/17										
Acenaphthene (SIM)	44.9	7.5	µg/L	50.0		89.8	40-140	8.41	20	
Acenaphthylene (SIM)	43.5	7.5	µg/L	50.0		87.0	40-140	7.82	20	
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140	7.70	20	
Benzo(a)anthracene (SIM)	47.4	1.2	µg/L	50.0		94.7	40-140	8.36	20	
Benzo(a)pyrene (SIM)	48.4	2.5	µg/L	50.0		96.8	40-140	8.11	20	
Benzo(b)fluoranthene (SIM)	49.3	1.2	µg/L	50.0		98.6	40-140	8.90	20	
Benzo(g,h,i)perylene (SIM)	47.8	12	µg/L	50.0		95.6	40-140	6.59	20	
Benzo(k)fluoranthene (SIM)	47.3	5.0	µg/L	50.0		94.6	40-140	8.37	20	
Chrysene (SIM)	47.8	5.0	µg/L	50.0		95.6	40-140	8.22	20	
Dibenz(a,h)anthracene (SIM)	44.2	5.0	µg/L	50.0		88.5	40-140	5.81	20	
Fluoranthene (SIM)	47.4	12	µg/L	50.0		94.9	40-140	7.89	20	
Fluorene (SIM)	45.4	25	µg/L	50.0		90.9	40-140	8.73	20	
Indeno(1,2,3-cd)pyrene (SIM)	46.7	5.0	µg/L	50.0		93.4	40-140	6.52	20	‡
2-Methylnaphthalene (SIM)	41.2	25	µg/L	50.0		82.4	40-140	6.90	20	
Naphthalene (SIM)	39.4	25	µg/L	50.0		78.9	40-140	6.07	20	
Phenanthrene (SIM)	45.4	1.2	µg/L	50.0		90.7	40-140	7.73	20	B
Pyrene (SIM)	48.2	25	µg/L	50.0		96.4	40-140	9.05	20	
Surrogate: Nitrobenzene-d5	94.0		µg/L	100		94.0	30-130			
Surrogate: 2-Fluorobiphenyl	95.5		µg/L	100		95.5	30-130			
Surrogate: p-Terphenyl-d14	85.7		µg/L	100		85.7	30-130			
Matrix Spike (B186907-MS1)										
Source: 1710642-06 Prepared: 09/23/17 Analyzed: 09/26/17										
Acenaphthene (SIM)	49.4	7.5	µg/L	55.6	0.0680	88.7	40-140			
Acenaphthylene (SIM)	47.8	7.5	µg/L	55.6	0.00900	86.1	40-140			
Anthracene (SIM)	50.5	5.0	µg/L	55.6	0.0180	90.9	40-140			
Benzo(a)anthracene (SIM)	50.7	1.2	µg/L	55.6	0.0160	91.2	40-140			
Benzo(a)pyrene (SIM)	53.0	2.5	µg/L	55.6	0.0120	95.4	40-140			
Benzo(b)fluoranthene (SIM)	53.6	1.2	µg/L	55.6	0.0160	96.5	40-140			
Benzo(g,h,i)perylene (SIM)	51.9	12	µg/L	55.6	ND	93.4	40-140			
Benzo(k)fluoranthene (SIM)	51.8	5.0	µg/L	55.6	0.0110	93.1	40-140			
Chrysene (SIM)	50.9	5.0	µg/L	55.6	0.0150	91.6	40-140			
Dibenz(a,h)anthracene (SIM)	49.5	5.0	µg/L	55.6	0.00400	89.0	40-140			
Fluoranthene (SIM)	51.4	12	µg/L	55.6	0.0340	92.4	40-140			
Fluorene (SIM)	49.4	25	µg/L	55.6	0.0620	88.8	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	51.3	5.0	µg/L	55.6	0.00600	92.3	40-140			
2-Methylnaphthalene (SIM)	46.4	25	µg/L	55.6	0.0610	83.4	40-140			
Naphthalene (SIM)	45.8	25	µg/L	55.6	0.206	82.1	40-140			
Phenanthrene (SIM)	49.9	1.2	µg/L	55.6	0.151	89.6	40-140			B
Pyrene (SIM)	51.9	25	µg/L	55.6	0.0290	93.4	40-140			
Surrogate: Nitrobenzene-d5	100		µg/L	111		90.0	30-130			
Surrogate: 2-Fluorobiphenyl	107		µg/L	111		96.1	30-130			
Surrogate: p-Terphenyl-d14	106		µg/L	111		95.2	30-130			

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

QUALITY CONTROL
SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186875 - SW-846 3510C
Blank (B186875-BLK1)

Prepared: 09/22/17 Analyzed: 09/28/17

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.33		µg/L	2.00		66.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.16		µg/L	2.00		58.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.96		µg/L	2.00		98.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.77		µg/L	2.00		88.6	30-150			

LCS (B186875-BS1)

Prepared: 09/22/17 Analyzed: 09/28/17

Aroclor-1016	0.56	0.20	µg/L	0.500		111	40-140			
Aroclor-1016 [2C]	0.59	0.20	µg/L	0.500		119	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		97.3	40-140			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		99.6	40-140			
Surrogate: Decachlorobiphenyl	1.54		µg/L	2.00		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.33		µg/L	2.00		66.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.83		µg/L	2.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.7	30-150			

LCS Dup (B186875-BSD1)

Prepared: 09/22/17 Analyzed: 09/28/17

Aroclor-1016	0.52	0.20	µg/L	0.500		104	40-140	7.17	20	
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		104	40-140	13.6	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		98.3	40-140	0.986	20	
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.4	40-140	12.0	20	
Surrogate: Decachlorobiphenyl	1.70		µg/L	2.00		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.47		µg/L	2.00		73.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.79		µg/L	2.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.62		µg/L	2.00		80.8	30-150			

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

QUALITY CONTROL
SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186875 - SW-846 3510C
Matrix Spike (B186875-MS1)
Source: 1710642-02

Prepared: 09/22/17 Analyzed: 09/29/17

Aroclor-1016	0.51	0.20	µg/L	0.500	ND	102	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500	ND	103	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500	ND	98.2	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500	ND	87.4	40-140			
Surrogate: Decachlorobiphenyl	1.94		µg/L	2.00		97.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.65		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.78		µg/L	2.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.59		µg/L	2.00		79.5	30-150			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-45-1R

Lab Sample ID: 17I0642-02 Date(s) Analyzed: 09/27/2017 09/27/2017
Instrument ID (1): Instrument ID (2):
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.1	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.57	
	2	0.000	-0.030	0.030	0.66	14.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-48-1R

Lab Sample ID: 17I0642-04 Date(s) Analyzed: 09/26/2017 09/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.12	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-SO-31-2AR**

Lab Sample ID: 1710642-05 Date(s) Analyzed: 09/26/2017 09/26/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.67	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-89-4R***SW-846 8082A*

Lab Sample ID: 1710642-09 Date(s) Analyzed: 09/27/2017 09/27/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.9	
	2	0.000	-0.030	0.030	2.4	18.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-92-4R***SW-846 8082A*

Lab Sample ID: 1710642-10 Date(s) Analyzed: 09/26/2017 09/26/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.90	20.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-94-2R***SW-846 8082A*

Lab Sample ID: 17I0642-12 Date(s) Analyzed: 09/26/2017 09/26/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.27	16.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-98-4R***SW-846 8082A*

Lab Sample ID: 1710642-14 Date(s) Analyzed: 09/26/2017 09/26/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.66	
	2	0.000	-0.030	0.030	0.58	12.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-9-SO-DUP63**Lab Sample ID: 1710642-15 Date(s) Analyzed: 09/26/2017 09/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.092	
	2	0.000	-0.030	0.030	0.11	17.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12W-DUP65**Lab Sample ID: 1710642-17 Date(s) Analyzed: 09/26/2017 09/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.34	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12W-DUP66**

Lab Sample ID: 1710642-18 Date(s) Analyzed: 09/27/2017 09/27/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.0	
	2	0.000	-0.030	0.030	1.9	5.1

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

CERTIFICATIONS
Certified Analyses included in this Report

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

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

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

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

1710642



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 3 of 4

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:	beeler@wseinc.com
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-POL-9-50-41-3R	9/14/17	1145		X	S	U
2	WS-POL-9-50-45-1R		1230				
3	WS-POL-9-50-45-2R		1231				
4	WS-POL-9-50-43-1R		1251				
5	WS-POL-12E-50-31-2AR		1243				
6	WS-POL-12E-50-31-2BR		1241				
7	WS-POL-12W-50-37-4R		1453				
8	WS-POL-12W-50-38-5R		1447				
9	WS-POL-12W-50-34-4R		1400				
10	WS-POL-12W-50-32-4R		1424				

Comments:

2000 do MSMD for WS-POL-12W-50-37-4R for only PLS
 Please do MSMD for WS-POL-12W-50-34-4R for only PLS and
 for WS-POL-12W-50-32-4R for only PLS

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	9/14/17 1515	MA
<i>[Signature]</i>	9/14/17 1515	CT
<i>[Signature]</i>	9/14/17 1540	Other:
<i>[Signature]</i>	9/14/17 1540	

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

# of Containers	
2 Preservation Code	
3 Container Code	
Dissolved Metals Samples	
☐ Field Filtered	
☐ Lab to Filter	
Orthophosphate Samples	
☐ Field Filtered	
☐ Lab to Filter	

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

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

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

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



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

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

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

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? 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? N/A

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

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

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

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

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	
HCL-		500 mL Amb.		500 mL Plastic	
Meoh-		250 mL Amb.		250 mL Plastic	
Bisulfate-		Col./Bacteria		Flashpoint	
DI-		Other Plastic		Other Glass	
Thiosulfate-		SOC Kit		Plastic Bag	
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	
HCL-		500 mL Amb.		500 mL Plastic	
Meoh-		250 mL Amb.		250 mL Plastic	
Bisulfate-		Col./Bacteria		Flashpoint	
DI-		Other Plastic		Other Glass	
Thiosulfate-		SOC Kit		Plastic Bag	
Sulfuric-		Perchlorate		Ziplock	

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0642

Laboratory Sample ID(s):

17I0642-01 thru 17I0642-18

Sample Date(s):

09/14/2017

List RCP Methods Used:

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

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Laboratory Director
Printed Name: Tod E. Kopyscinski
Date: 10/02/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 29, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0904

Enclosed are results of analyses for samples received by the laboratory on September 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17I0904-01	5
Sample Preparation Information	8
QC Data	9
Semivolatile Organic Compounds by GC/MS	9
B186996	9
SPLP - Semivolatile Organic Compounds by GC/MS	11
B187278	11
Flag/Qualifier Summary	13
Certifications	14
Chain of Custody/Sample Receipt	15

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

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

REPORT DATE: 9/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710904

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC2-SO-1-1R	1710904-01	Soil		SM 2540G SW-846 8270D	

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

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8270D

Qualifications:

E

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

Analyte & Samples(s) Qualified:

Pyrene

1710904-01[WS-AOC2-SO-1-1R]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710904

Date Received: 9/20/2017

Field Sample #: WS-AOC2-SO-1-1R

Sampled: 9/18/2017 14:00

Sample ID: 1710904-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Acenaphthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Acenaphthylene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Acenaphthylene	0.47	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Anthracene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Anthracene	0.57	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(a)anthracene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(a)anthracene	1.9	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(a)pyrene	2.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(a)pyrene	2.5	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(b)fluoranthene	3.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(b)fluoranthene	2.6	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(g,h,i)perylene	2.2	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(g,h,i)perylene	1.9	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(k)fluoranthene	1.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(k)fluoranthene	0.93	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Chrysene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Chrysene	1.8	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Dibenz(a,h)anthracene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Dibenz(a,h)anthracene	0.39	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Fluoranthene	3.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Fluoranthene	3.7	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Fluorene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Indeno(1,2,3-cd)pyrene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Indeno(1,2,3-cd)pyrene	1.8	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
2-Methylnaphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Naphthalene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Naphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Phenanthrene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Phenanthrene	1.6	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Pyrene	5.2	0.19	mg/Kg dry	1	E	SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Pyrene	5.0	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	72.0	30-130	9/27/17 14:49
Nitrobenzene-d5	72.8	30-130	9/27/17 16:44
2-Fluorobiphenyl	65.2	30-130	9/27/17 14:49
2-Fluorobiphenyl	63.3	30-130	9/27/17 16:44
p-Terphenyl-d14	77.3	30-130	9/27/17 14:49
p-Terphenyl-d14	73.3	30-130	9/27/17 16:44

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

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

Sample Description:

Work Order: 1710904

Date Received: 9/20/2017

Field Sample #: WS-AOC2-SO-1-1R

Sampled: 9/18/2017 14:00

Sample ID: 1710904-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	9/22/17	9/22/17 18:04	CTL

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

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

Sample Description:

Work Order: 1710904

Date Received: 9/20/2017

Field Sample #: WS-AOC2-SO-1-1R

Sampled: 9/18/2017 14:00

Sample ID: 1710904-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Anthracene (SIM)	0.24	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(a)anthracene (SIM)	0.23	0.050	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(a)pyrene (SIM)	0.42	0.10	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(b)fluoranthene (SIM)	0.45	0.050	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Chrysene (SIM)	0.27	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Fluoranthene (SIM)	0.75	0.50	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.32	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Phenanthrene (SIM)	0.95	0.050	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	70.5	30-130							
2-Fluorobiphenyl	68.0	30-130							
p-Terphenyl-d14	52.9	30-130							

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
17I0904-01 [WS-AOC2-SO-1-1R]	B186832	09/22/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0904-01 [WS-AOC2-SO-1-1R]	B186996	30.1	1.00	09/25/17
17I0904-01RE1 [WS-AOC2-SO-1-1R]	B186996	30.1	1.00	09/25/17

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

Leachates were extracted on 9/22/2017 per SW-846 1312 in Batch B186883

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0904-01 [WS-AOC2-SO-1-1R]	B187278	1000	1.00	09/28/17

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186996 - SW-846 3546

Blank (B186996-BLK1)

Prepared: 09/25/17 Analyzed: 09/27/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.86		mg/Kg wet	3.33		55.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.33		60.1	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		80.9	30-130			

LCS (B186996-BS1)

Prepared: 09/25/17 Analyzed: 09/27/17

Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.3	40-140			
Anthracene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Benzo(a)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140			
Benzo(g,h,i)perylene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.3	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140			
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Fluorene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140			
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Naphthalene	0.922	0.17	mg/Kg wet	1.67		55.3	40-140			
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Surrogate: Nitrobenzene-d5	2.31		mg/Kg wet	3.33		69.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.26		mg/Kg wet	3.33		67.8	30-130			
Surrogate: p-Terphenyl-d14	2.45		mg/Kg wet	3.33		73.5	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186996 - SW-846 3546										
LCS Dup (B186996-BSD1)					Prepared: 09/25/17 Analyzed: 09/27/17					
Acenaphthene	0.956	0.17	mg/Kg wet	1.67		57.4	40-140	9.40	30	
Acenaphthylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140	8.21	30	
Anthracene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	8.98	30	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140	6.85	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	5.97	30	
Benzo(b)fluoranthene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	9.83	30	
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	2.81	30	
Benzo(k)fluoranthene	0.937	0.17	mg/Kg wet	1.67		56.2	40-140	7.04	30	
Chrysene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140	7.61	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	3.09	30	
Fluoranthene	0.999	0.17	mg/Kg wet	1.67		60.0	40-140	6.89	30	
Fluorene	0.967	0.17	mg/Kg wet	1.67		58.0	40-140	7.72	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	3.81	30	
2-Methylnaphthalene	0.962	0.17	mg/Kg wet	1.67		57.7	40-140	9.76	30	
Naphthalene	0.849	0.17	mg/Kg wet	1.67		50.9	40-140	8.28	30	
Phenanthrene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	7.68	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	6.90	30	
Surrogate: Nitrobenzene-d5	2.10		mg/Kg wet	3.33		63.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg wet	3.33		62.6	30-130			
Surrogate: p-Terphenyl-d14	2.30		mg/Kg wet	3.33		68.9	30-130			

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

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B187278 - SW-846 3510C

Blank (B187278-BLK1)

Prepared: 09/28/17 Analyzed: 09/29/17

Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	71.4		µg/L	100		71.4	30-130			
Surrogate: 2-Fluorobiphenyl	69.6		µg/L	100		69.6	30-130			
Surrogate: p-Terphenyl-d14	61.7		µg/L	100		61.7	30-130			

LCS (B187278-BS1)

Prepared: 09/28/17 Analyzed: 09/29/17

Acenaphthene (SIM)	42.9	7.5	µg/L	50.0		85.8	40-140			
Acenaphthylene (SIM)	41.7	7.5	µg/L	50.0		83.4	40-140			
Anthracene (SIM)	45.7	5.0	µg/L	50.0		91.4	40-140			
Benzo(a)anthracene (SIM)	46.2	1.2	µg/L	50.0		92.4	40-140			
Benzo(a)pyrene (SIM)	47.4	2.5	µg/L	50.0		94.8	40-140			
Benzo(b)fluoranthene (SIM)	47.2	1.2	µg/L	50.0		94.4	40-140			
Benzo(g,h,i)perylene (SIM)	47.9	12	µg/L	50.0		95.8	40-140			
Benzo(k)fluoranthene (SIM)	46.7	5.0	µg/L	50.0		93.4	40-140			
Chrysene (SIM)	46.6	5.0	µg/L	50.0		93.3	40-140			
Dibenz(a,h)anthracene (SIM)	47.6	5.0	µg/L	50.0		95.1	40-140			
Fluoranthene (SIM)	45.7	12	µg/L	50.0		91.4	40-140			
Fluorene (SIM)	43.2	25	µg/L	50.0		86.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	47.7	5.0	µg/L	50.0		95.4	40-140			
2-Methylnaphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Naphthalene (SIM)	39.4	25	µg/L	50.0		78.8	40-140			
Phenanthrene (SIM)	44.0	1.2	µg/L	50.0		88.0	40-140			
Pyrene (SIM)	44.2	25	µg/L	50.0		88.4	40-140			
Surrogate: Nitrobenzene-d5	90.1		µg/L	100		90.1	30-130			
Surrogate: 2-Fluorobiphenyl	94.8		µg/L	100		94.8	30-130			
Surrogate: p-Terphenyl-d14	74.4		µg/L	100		74.4	30-130			

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

QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B187278 - SW-846 3510C										
LCS Dup (B187278-BSD1)					Prepared: 09/28/17 Analyzed: 09/29/17					
Acenaphthene (SIM)	40.0	7.5	µg/L	50.0		80.0	40-140	6.93	20	
Acenaphthylene (SIM)	39.3	7.5	µg/L	50.0		78.6	40-140	5.93	20	
Anthracene (SIM)	42.0	5.0	µg/L	50.0		84.1	40-140	8.37	20	
Benzo(a)anthracene (SIM)	42.2	1.2	µg/L	50.0		84.4	40-140	9.05	20	
Benzo(a)pyrene (SIM)	43.2	2.5	µg/L	50.0		86.4	40-140	9.28	20	
Benzo(b)fluoranthene (SIM)	43.7	1.2	µg/L	50.0		87.4	40-140	7.75	20	
Benzo(g,h,i)perylene (SIM)	43.2	12	µg/L	50.0		86.4	40-140	10.4	20	
Benzo(k)fluoranthene (SIM)	43.0	5.0	µg/L	50.0		86.1	40-140	8.13	20	
Chrysene (SIM)	42.6	5.0	µg/L	50.0		85.2	40-140	9.13	20	
Dibenz(a,h)anthracene (SIM)	42.6	5.0	µg/L	50.0		85.2	40-140	11.0	20	
Fluoranthene (SIM)	41.8	12	µg/L	50.0		83.6	40-140	8.91	20	
Fluorene (SIM)	41.0	25	µg/L	50.0		82.0	40-140	5.16	20	
Indeno(1,2,3-cd)pyrene (SIM)	42.7	5.0	µg/L	50.0		85.4	40-140	11.1	20	‡
2-Methylnaphthalene (SIM)	38.4	25	µg/L	50.0		76.8	40-140	4.58	20	
Naphthalene (SIM)	37.0	25	µg/L	50.0		74.1	40-140	6.21	20	
Phenanthrene (SIM)	40.6	1.2	µg/L	50.0		81.2	40-140	8.04	20	
Pyrene (SIM)	41.9	25	µg/L	50.0		83.8	40-140	5.34	20	
Surrogate: Nitrobenzene-d5	83.6		µg/L	100		83.6	30-130			
Surrogate: 2-Fluorobiphenyl	87.1		µg/L	100		87.1	30-130			
Surrogate: p-Terphenyl-d14	69.6		µg/L	100		69.6	30-130			

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

FLAG/QUALIFIER SUMMARY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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 Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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 A.P. Date 9/20/17 Time 1525

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.6
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? N/A
Are there Rushes? N/A Who was notified? N/A
Are there Short Holds? N/A Who was notified? N/A

Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A

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

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

Unused Media

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

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17I0904

Laboratory Sample ID(s):

17I0904-01

Sample Date(s):

09/18/2017

List RCP Methods Used:

SW-846 8270D

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/29/17
Name of Laboratory: Con-Test Analytical Laboratory

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0679

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

Sincerely,

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

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G0679-01	7
17G0679-02	9
17G0679-03	11
17G0679-04	13
17G0679-05	15
17G0679-06	17
17G0679-07	19
17G0679-08	21
17G0679-09	24
17G0679-10	26
17G0679-11	28
17G0679-12	30
17G0679-13	32
17G0679-14	34
17G0679-15	36
17G0679-16	38
17G0679-17	40
17G0679-18	42
17G0679-19	45
17G0679-20	47
Sample Preparation Information	49
QC Data	51

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS	51
B182956	51
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	53
B182255	53
B182529	54
Petroleum Hydrocarbons Analyses	56
B182388	56
Metals Analyses (Total)	57
B182155	57
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	58
B182352	58
Dual Column RPD Report	59
Flag/Qualifier Summary	65
Certifications	66
Chain of Custody/Sample Receipt	68

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0679

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-17-1 (MS)	17G0679-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-17-2	17G0679-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-17-3	17G0679-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-34-1	17G0679-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-34-2	17G0679-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-34-3	17G0679-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-13-1A	17G0679-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-13-1B	17G0679-08	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D	
WS-AOC12W-SO-13-2	17G0679-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-13-3	17G0679-10	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-30-1	17G0679-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-30-2	17G0679-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-30-3	17G0679-13	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-9-1	17G0679-14	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-9-2	17G0679-15	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-9-3	17G0679-16	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-26-1A	17G0679-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-26-1B	17G0679-18	Soil		SM 2540G SW-846 6010C-D SW-846 8270D	
WS-AOC12W-SO-26-2	17G0679-19	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0679

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-26-3	17G0679-20	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT - PAHs reported on sample 17G0679-18.

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH**Qualifications:****S-01**

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

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

17G0679-08[WS-AOC12W-SO-13-1B]

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-1 (MS)

Sampled: 7/18/2017 09:26

Sample ID: 17G0679-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.6	30-150						7/25/17 21:29	
Decachlorobiphenyl [2]	87.5	30-150						7/25/17 21:29	
Tetrachloro-m-xylene [1]	84.5	30-150						7/25/17 21:29	
Tetrachloro-m-xylene [2]	89.0	30-150						7/25/17 21:29	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-1 (MS)

Sampled: 7/18/2017 09:26

Sample ID: 17G0679-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-2

Sampled: 7/18/2017 09:28

Sample ID: 17G0679-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.7	30-150						7/25/17 21:41	
Decachlorobiphenyl [2]	86.7	30-150						7/25/17 21:41	
Tetrachloro-m-xylene [1]	88.0	30-150						7/25/17 21:41	
Tetrachloro-m-xylene [2]	94.7	30-150						7/25/17 21:41	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-2

Sampled: 7/18/2017 09:28

Sample ID: 17G0679-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-3

Sampled: 7/18/2017 09:30

Sample ID: 17G0679-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.9	30-150						7/25/17 21:53	
Decachlorobiphenyl [2]	75.8	30-150						7/25/17 21:53	
Tetrachloro-m-xylene [1]	79.4	30-150						7/25/17 21:53	
Tetrachloro-m-xylene [2]	83.5	30-150						7/25/17 21:53	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-3

Sampled: 7/18/2017 09:30

Sample ID: 17G0679-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	64.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-1

Sampled: 7/18/2017 09:36

Sample ID: 17G0679-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.9	30-150							
Decachlorobiphenyl [2]	90.4	30-150							
Tetrachloro-m-xylene [1]	93.1	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-1

Sampled: 7/18/2017 09:36

Sample ID: 17G0679-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-2

Sampled: 7/18/2017 09:37

Sample ID: 17G0679-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	43.7	30-150						7/25/17 22:18	
Decachlorobiphenyl [2]	51.5	30-150						7/25/17 22:18	
Tetrachloro-m-xylene [1]	50.9	30-150						7/25/17 22:18	
Tetrachloro-m-xylene [2]	51.7	30-150						7/25/17 22:18	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-2

Sampled: 7/18/2017 09:37

Sample ID: 17G0679-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-3

Sampled: 7/18/2017 09:38

Sample ID: 17G0679-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.3	30-150						7/25/17 22:31	
Decachlorobiphenyl [2]	83.7	30-150						7/25/17 22:31	
Tetrachloro-m-xylene [1]	86.8	30-150						7/25/17 22:31	
Tetrachloro-m-xylene [2]	93.5	30-150						7/25/17 22:31	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-3

Sampled: 7/18/2017 09:38

Sample ID: 17G0679-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1A

Sampled: 7/18/2017 09:40

Sample ID: 17G0679-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150						7/25/17 22:43	
Decachlorobiphenyl [2]	88.1	30-150						7/25/17 22:43	
Tetrachloro-m-xylene [1]	90.6	30-150						7/25/17 22:43	
Tetrachloro-m-xylene [2]	98.4	30-150						7/25/17 22:43	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1A

Sampled: 7/18/2017 09:40

Sample ID: 17G0679-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1B

Sampled: 7/18/2017 09:42

Sample ID: 17G0679-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	750	230	mg/Kg dry	20		CTDEP ETPH	7/24/17	7/27/17 18:41	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		7/27/17 18:41		

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1B

Sampled: 7/18/2017 09:42

Sample ID: 17G0679-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.8	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:21	QNW

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1B

Sampled: 7/18/2017 09:42

Sample ID: 17G0679-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-2

Sampled: 7/18/2017 09:44

Sample ID: 17G0679-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.7	30-150						7/27/17 12:29	
Decachlorobiphenyl [2]	110	30-150						7/27/17 12:29	
Tetrachloro-m-xylene [1]	90.1	30-150						7/27/17 12:29	
Tetrachloro-m-xylene [2]	89.4	30-150						7/27/17 12:29	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-2

Sampled: 7/18/2017 09:44

Sample ID: 17G0679-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-3

Sampled: 7/18/2017 09:46

Sample ID: 17G0679-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	56.9	30-150						7/25/17 23:08	
Decachlorobiphenyl [2]	66.6	30-150						7/25/17 23:08	
Tetrachloro-m-xylene [1]	77.9	30-150						7/25/17 23:08	
Tetrachloro-m-xylene [2]	82.5	30-150						7/25/17 23:08	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-3

Sampled: 7/18/2017 09:46

Sample ID: 17G0679-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	65.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-1

Sampled: 7/18/2017 09:55

Sample ID: 17G0679-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	59.3	30-150						7/26/17 0:10	
Decachlorobiphenyl [2]	69.2	30-150						7/26/17 0:10	
Tetrachloro-m-xylene [1]	69.0	30-150						7/26/17 0:10	
Tetrachloro-m-xylene [2]	75.6	30-150						7/26/17 0:10	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-1

Sampled: 7/18/2017 09:55

Sample ID: 17G0679-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-2

Sampled: 7/18/2017 09:56

Sample ID: 17G0679-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	33.8	30-150						7/26/17 0:22	
Decachlorobiphenyl [2]	40.3	30-150						7/26/17 0:22	
Tetrachloro-m-xylene [1]	38.2	30-150						7/26/17 0:22	
Tetrachloro-m-xylene [2]	37.6	30-150						7/26/17 0:22	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-2

Sampled: 7/18/2017 09:56

Sample ID: 17G0679-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-3

Sampled: 7/18/2017 09:57

Sample ID: 17G0679-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	62.9	30-150						7/26/17 0:34	
Decachlorobiphenyl [2]	75.9	30-150						7/26/17 0:34	
Tetrachloro-m-xylene [1]	79.3	30-150						7/26/17 0:34	
Tetrachloro-m-xylene [2]	85.8	30-150						7/26/17 0:34	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-3

Sampled: 7/18/2017 09:57

Sample ID: 17G0679-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-1

Sampled: 7/18/2017 09:59

Sample ID: 17G0679-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	65.8	30-150						7/26/17 0:47	
Decachlorobiphenyl [2]	77.1	30-150						7/26/17 0:47	
Tetrachloro-m-xylene [1]	78.3	30-150						7/26/17 0:47	
Tetrachloro-m-xylene [2]	81.6	30-150						7/26/17 0:47	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-1

Sampled: 7/18/2017 09:59

Sample ID: 17G0679-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-2

Sampled: 7/18/2017 10:01

Sample ID: 17G0679-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	59.7	30-150						7/26/17 0:59	
Decachlorobiphenyl [2]	73.2	30-150						7/26/17 0:59	
Tetrachloro-m-xylene [1]	74.3	30-150						7/26/17 0:59	
Tetrachloro-m-xylene [2]	70.8	30-150						7/26/17 0:59	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-2

Sampled: 7/18/2017 10:01

Sample ID: 17G0679-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-3

Sampled: 7/18/2017 10:03

Sample ID: 17G0679-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.7	30-150						7/26/17 1:12	
Decachlorobiphenyl [2]	73.0	30-150						7/26/17 1:12	
Tetrachloro-m-xylene [1]	75.4	30-150						7/26/17 1:12	
Tetrachloro-m-xylene [2]	68.2	30-150						7/26/17 1:12	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-3

Sampled: 7/18/2017 10:03

Sample ID: 17G0679-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1A

Sampled: 7/18/2017 10:05

Sample ID: 17G0679-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.7	30-150						7/26/17 1:24	
Decachlorobiphenyl [2]	74.2	30-150						7/26/17 1:24	
Tetrachloro-m-xylene [1]	76.8	30-150						7/26/17 1:24	
Tetrachloro-m-xylene [2]	79.1	30-150						7/26/17 1:24	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1A

Sampled: 7/18/2017 10:05

Sample ID: 17G0679-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1B

Sampled: 7/18/2017 10:06

Sample ID: 17G0679-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	52.8	30-130						8/2/17 8:57	
2-Fluorobiphenyl	59.4	30-130						8/2/17 8:57	
p-Terphenyl-d14	61.4	30-130						8/2/17 8:57	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1B

Sampled: 7/18/2017 10:06

Sample ID: 17G0679-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:25	QNW

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1B

Sampled: 7/18/2017 10:06

Sample ID: 17G0679-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-2

Sampled: 7/18/2017 10:09

Sample ID: 17G0679-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	45.5	30-150						7/26/17 1:36	
Decachlorobiphenyl [2]	55.6	30-150						7/26/17 1:36	
Tetrachloro-m-xylene [1]	59.3	30-150						7/26/17 1:36	
Tetrachloro-m-xylene [2]	61.0	30-150						7/26/17 1:36	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-2

Sampled: 7/18/2017 10:09

Sample ID: 17G0679-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-3

Sampled: 7/18/2017 10:08

Sample ID: 17G0679-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	56.5	30-150						7/26/17 1:49	
Decachlorobiphenyl [2]	63.3	30-150						7/26/17 1:49	
Tetrachloro-m-xylene [1]	66.5	30-150						7/26/17 1:49	
Tetrachloro-m-xylene [2]	68.2	30-150						7/26/17 1:49	

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

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

Sample Description:

Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-3

Sampled: 7/18/2017 10:08

Sample ID: 17G0679-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-08 [WS-AOC12W-SO-13-1B]	B182388	30.0	1.00	07/24/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0679-01 [WS-AOC12W-SO-17-1 (MS)]	B182352	07/24/17
17G0679-02 [WS-AOC12W-SO-17-2]	B182352	07/24/17
17G0679-03 [WS-AOC12W-SO-17-3]	B182352	07/24/17
17G0679-04 [WS-AOC12W-SO-34-1]	B182352	07/24/17
17G0679-05 [WS-AOC12W-SO-34-2]	B182352	07/24/17
17G0679-06 [WS-AOC12W-SO-34-3]	B182352	07/24/17
17G0679-07 [WS-AOC12W-SO-13-1A]	B182352	07/24/17
17G0679-08 [WS-AOC12W-SO-13-1B]	B182352	07/24/17
17G0679-09 [WS-AOC12W-SO-13-2]	B182352	07/24/17
17G0679-10 [WS-AOC12W-SO-13-3]	B182352	07/24/17
17G0679-11 [WS-AOC12W-SO-30-1]	B182352	07/24/17
17G0679-12 [WS-AOC12W-SO-30-2]	B182352	07/24/17
17G0679-13 [WS-AOC12W-SO-30-3]	B182352	07/24/17
17G0679-14 [WS-AOC12W-SO-9-1]	B182352	07/24/17
17G0679-15 [WS-AOC12W-SO-9-2]	B182352	07/24/17
17G0679-16 [WS-AOC12W-SO-9-3]	B182352	07/24/17
17G0679-17 [WS-AOC12W-SO-26-1A]	B182352	07/24/17
17G0679-18 [WS-AOC12W-SO-26-1B]	B182352	07/24/17
17G0679-19 [WS-AOC12W-SO-26-2]	B182352	07/24/17
17G0679-20 [WS-AOC12W-SO-26-3]	B182352	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-08 [WS-AOC12W-SO-13-1B]	B182155	1.01	50.0	07/20/17
17G0679-18 [WS-AOC12W-SO-26-1B]	B182155	1.00	50.0	07/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-01 [WS-AOC12W-SO-17-1 (MS)]	B182255	10.0	10.0	07/21/17
17G0679-02 [WS-AOC12W-SO-17-2]	B182255	10.0	10.0	07/21/17
17G0679-03 [WS-AOC12W-SO-17-3]	B182255	10.0	10.0	07/21/17
17G0679-04 [WS-AOC12W-SO-34-1]	B182255	10.0	10.0	07/21/17
17G0679-05 [WS-AOC12W-SO-34-2]	B182255	10.0	10.0	07/21/17
17G0679-06 [WS-AOC12W-SO-34-3]	B182255	10.0	10.0	07/21/17
17G0679-07 [WS-AOC12W-SO-13-1A]	B182255	10.0	10.0	07/21/17
17G0679-10 [WS-AOC12W-SO-13-3]	B182255	10.0	10.0	07/21/17
17G0679-11 [WS-AOC12W-SO-30-1]	B182255	10.0	10.0	07/21/17
17G0679-12 [WS-AOC12W-SO-30-2]	B182255	10.0	10.0	07/21/17
17G0679-13 [WS-AOC12W-SO-30-3]	B182255	10.0	10.0	07/21/17
17G0679-14 [WS-AOC12W-SO-9-1]	B182255	10.0	10.0	07/21/17
17G0679-15 [WS-AOC12W-SO-9-2]	B182255	10.0	10.0	07/21/17
17G0679-16 [WS-AOC12W-SO-9-3]	B182255	10.0	10.0	07/21/17
17G0679-17 [WS-AOC12W-SO-26-1A]	B182255	10.0	10.0	07/21/17
17G0679-19 [WS-AOC12W-SO-26-2]	B182255	10.0	10.0	07/21/17

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-20 [WS-AOC12W-SO-26-3]	B182255	10.0	10.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-09RE1 [WS-AOC12W-SO-13-2]	B182529	10.0	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-18 [WS-AOC12W-SO-26-1B]	B182956	30.0	1.00	07/31/17

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B182956 - SW-846 3546
Blank (B182956-BLK1)

Prepared: 07/31/17 Analyzed: 08/01/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.75		mg/Kg wet	3.33		82.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg wet	3.33		79.0	30-130			
Surrogate: p-Terphenyl-d14	3.56		mg/Kg wet	3.33		107	30-130			

LCS (B182956-BS1)

Prepared: 07/31/17 Analyzed: 08/01/17

Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140			
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Benzo(g,h,i)perylene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140			
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Dibenz(a,h)anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
2-Methylnaphthalene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Surrogate: Nitrobenzene-d5	2.64		mg/Kg wet	3.33		79.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.83		mg/Kg wet	3.33		84.9	30-130			
Surrogate: p-Terphenyl-d14	3.38		mg/Kg wet	3.33		101	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182956 - SW-846 3546										
LCS Dup (B182956-BSD1)					Prepared: 07/31/17 Analyzed: 08/01/17					
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.0	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	11.0	30	
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	9.30	30	
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	7.74	30	
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	7.88	30	
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	8.76	30	
Benzo(g,h,i)perylene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140	7.01	30	
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	10.6	30	
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	8.23	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	7.56	30	
Fluoranthene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	9.83	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	12.5	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	10.8	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	9.76	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140	7.23	30	
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140	9.04	30	
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140	13.0	30	
Surrogate: Nitrobenzene-d5	2.42		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.33		76.8	30-130			
Surrogate: p-Terphenyl-d14	2.96		mg/Kg wet	3.33		88.7	30-130			

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 B182255 - SW-846 3540C
Blank (B182255-BLK1)

Prepared: 07/21/17 Analyzed: 07/25/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.2	30-150			

LCS (B182255-BS1)

Prepared: 07/21/17 Analyzed: 07/25/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.5	40-140			
Surrogate: Decachlorobiphenyl	0.189		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.6	30-150			

LCS Dup (B182255-BSD1)

Prepared: 07/21/17 Analyzed: 07/25/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.5	40-140	4.26	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140	1.98	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.1	40-140	4.37	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	5.24	30	
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		72.1	30-150			

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 B182255 - SW-846 3540C

Matrix Spike (B182255-MS1)

Source: 17G0679-01

Prepared: 07/21/17 Analyzed: 07/26/17

Aroclor-1016	0.20	0.11	mg/Kg dry	0.213	ND	94.1	40-140			
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.213	ND	97.2	40-140			
Aroclor-1260	0.17	0.11	mg/Kg dry	0.213	ND	78.1	40-140			
Aroclor-1260 [2C]	0.16	0.11	mg/Kg dry	0.213	ND	72.8	40-140			
Surrogate: Decachlorobiphenyl	0.157		mg/Kg dry	0.213		73.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.213		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.201		mg/Kg dry	0.213		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.215		mg/Kg dry	0.213		101	30-150			

Matrix Spike Dup (B182255-MSD1)

Source: 17G0679-01

Prepared: 07/21/17 Analyzed: 07/26/17

Aroclor-1016	0.17	0.11	mg/Kg dry	0.213	ND	80.8	40-140	15.1	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.213	ND	81.0	40-140	18.2	50	
Aroclor-1260	0.14	0.11	mg/Kg dry	0.213	ND	65.8	40-140	17.0	50	
Aroclor-1260 [2C]	0.13	0.11	mg/Kg dry	0.213	ND	61.0	40-140	17.7	50	
Surrogate: Decachlorobiphenyl	0.131		mg/Kg dry	0.213		61.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg dry	0.213		70.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg dry	0.213		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg dry	0.213		84.7	30-150			

Batch B182529 - SW-846 3540C

Blank (B182529-BLK1)

Prepared: 07/26/17 Analyzed: 07/27/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.168		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.160		mg/Kg wet	0.200		80.0	30-150			

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

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B182529 - SW-846 3540C
LCS (B182529-BS1)

Prepared: 07/26/17 Analyzed: 07/27/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.7	40-140			
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			

LCS Dup (B182529-BSD1)

Prepared: 07/26/17 Analyzed: 07/27/17

Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.6	40-140	17.6	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.8	40-140	15.1	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		65.7	40-140	19.1	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.3	40-140	16.8	30	
Surrogate: Decachlorobiphenyl	0.142		mg/Kg wet	0.200		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.133		mg/Kg wet	0.200		66.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		75.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		70.1	30-150			

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

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B182388 - SW-846 3546
Blank (B182388-BLK1)

Prepared: 07/24/17 Analyzed: 07/25/17

CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.91		mg/Kg wet	3.33		117	50-150			

LCS (B182388-BS1)

Prepared: 07/24/17 Analyzed: 07/25/17

CT ETPH	34.3	10	mg/Kg wet	33.3		103	60-120			
Surrogate: o-Terphenyl	3.19		mg/Kg wet	3.33		95.6	50-150			

LCS Dup (B182388-BSD1)

Prepared: 07/24/17 Analyzed: 07/25/17

CT ETPH	31.3	10	mg/Kg wet	33.3		93.8	60-120	9.16	30	
Surrogate: o-Terphenyl	2.82		mg/Kg wet	3.33		84.6	50-150			

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 B182155 - SW-846 3050B
Blank (B182155-BLK1)

Prepared: 07/20/17 Analyzed: 07/24/17

Arsenic ND 2.5 mg/Kg wet

LCS (B182155-BS1)

Prepared: 07/20/17 Analyzed: 07/24/17

Arsenic 52.4 4.9 mg/Kg wet 57.0 92.0 77.8-122.1

LCS Dup (B182155-BSD1)

Prepared: 07/20/17 Analyzed: 07/24/17

Arsenic 54.4 5.0 mg/Kg wet 57.0 95.4 77.8-122.1 3.72 30

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B182352 - % Solids
Duplicate (B182352-DUP1)
Source: 17G0679-01

Prepared: 07/24/17 Analyzed: 07/25/17

% Solids	94.2		% Wt		93.7			0.532	20	
----------	------	--	------	--	------	--	--	-------	----	--

Duplicate (B182352-DUP2)
Source: 17G0679-02

Prepared: 07/24/17 Analyzed: 07/25/17

% Solids	79.6		% Wt		80.2			0.751	20	
----------	------	--	------	--	------	--	--	-------	----	--

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: B182255-BS1 Date(s) Analyzed 07/25/2017 07/25/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8

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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**Lab Sample ID: B182255-BSD1 Date(s) Analyzed 07/25/2017 07/25/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5

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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike**Lab Sample ID: B182255-MS1 Date(s) Analyzed 07/26/2017 07/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182255-MSD1 Date(s) Analyzed 07/26/2017 07/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

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: B182529-BS1 Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182529-BSD1 Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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

FLAG/QUALIFIER SUMMARY

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

CERTIFICATIONS
Certified Analyses included in this Report

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

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

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

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

CHAIN OF CUSTODY RECORD



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

Chris Berthiaume / Will Sirotak

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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC12W-SO-17-11MS-17-11	7/18/17	9:26	X	S		
2	WS-AOC12W-SO-17-2	7/18/17	9:28				
3	WS-AOC12W-SO-17-3	7/18/17	9:30				
4	WS-AOC12W-SO-34-1		9:36				
5	WS-AOC12W-SO-34-2		9:37				
6	WS-AOC12W-SO-34-3		9:38				
7	WS-AOC12W-SO-13-1A		9:40				
8	WS-AOC12W-SO-13-1B		9:42				
9	WS-AOC12W-SO-13-2		9:44				
10	WS-AOC12W-SO-13-3		9:46				

Comments:
WS-AOC12W-SO-17-1 ~~MS-MSD~~ (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

Requisitioned by: (signature) MSD 7/18/17 Date/Time: 7/18/17 1515
Received by: (signature) [Signature] Date/Time: 7/18/17 1515
Requisitioned by: (signature) [Signature] Date/Time: 7/18/17 1515
Received by: (signature) [Signature] Date/Time: 7/18/17 1700
Requisitioned by: (signature) [Signature] Date/Time: 7/18/17 1700
Received by: (signature) [Signature] Date/Time: 7/18/17 1700

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

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC12W-50-30-1	7/14/17	9:55	X	S	W	
12	WS-AOC12W-50-30-2		9:56				
13	WS-AOC12W-50-30-3		9:57				
14	WS-AOC12W-50-9-1		9:59				
15	WS-AOC12W-50-9-2		10:01				
16	WS-AOC12W-50-9-3		10:03				
17	WS-AOC12W-50-26-1A		10:05				
18	WS-AOC12W-50-26-1B		10:06				
19	WS-AOC12W-50-26-2		10:07				
20	WS-AOC12W-50-26-3		10:08				

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	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
	7/18/17		7/18/17 1520		7/18/17 1520		7/18/17 1520

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

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 SM Date 7/18/17 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.6, 2.8
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

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

Are there Rushes? N/A Who was notified?

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

Is there enough Volume? T

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

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

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

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

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

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 7/27/17
 Data File Name A0727055.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
 17G0679-08@20X
 17G0772-08@10X
 17G0778-14@5X
 17G0779-07@10X
 17G0779-12@10X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0679

Laboratory Sample ID(s):

17G0679-01 thru 17G0679-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

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

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

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

This form may not be altered and all questions must be answered.

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

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 07/28/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 21, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0319

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

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	8
17I0319-01	8
17I0319-02	10
17I0319-03	12
17I0319-04	14
17I0319-05	17
17I0319-06	19
17I0319-07	21
17I0319-08	23
17I0319-09	26
17I0319-10	28
17I0319-11	30
17I0319-12	32
17I0319-13	35
17I0319-14	37
17I0319-15	39
17I0319-16	41
17I0319-17	45
17I0319-18	47
17I0319-19	49
17I0319-20	51
Sample Preparation Information	54
QC Data	56

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS	56
B186330	56
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	58
B186355	58
Petroleum Hydrocarbons Analyses	60
B186332	60
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	61
B186207	61
Dual Column RPD Report	62
Flag/Qualifier Summary	71
Certifications	72
Chain of Custody/Sample Receipt	74

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

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

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710319

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-5-3	1710319-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-5-4	1710319-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-13-1	1710319-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-13-2	1710319-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-13-3	1710319-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-13-4	1710319-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-7-1	1710319-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-7-2	1710319-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-7-3	1710319-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-7-4	1710319-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-17-1	1710319-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-17-2	1710319-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-17-3	1710319-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-17-4	1710319-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-8-1	1710319-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-8-2	1710319-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-6-SO-8-3	1710319-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-8-4	1710319-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710319

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-16-1	1710319-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-16-2	1710319-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A**Qualifications:****P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**Aroclor-1268 [2C]**

17I0319-11[WS-AOC-6-SO-17-1]

S-01

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

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

17I0319-03[WS-AOC-6-SO-13-1]

Decachlorobiphenyl [2C]

17I0319-03[WS-AOC-6-SO-13-1]

Tetrachloro-m-xylene

17I0319-03[WS-AOC-6-SO-13-1]

Tetrachloro-m-xylene [2C]

17I0319-03[WS-AOC-6-SO-13-1]

SW-846 8270D**Qualifications:****E**

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

Analyte & Samples(s) Qualified:**Benzo(a)anthracene**

17I0319-16[WS-AOC-6-SO-8-2]

Benzo(b)fluoranthene

17I0319-16[WS-AOC-6-SO-8-2]

Fluoranthene

17I0319-16[WS-AOC-6-SO-8-2]

Phenanthrene

17I0319-16[WS-AOC-6-SO-8-2]

Pyrene

17I0319-16[WS-AOC-6-SO-8-2]

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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light pink rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-3

Sampled: 9/8/2017 10:47

Sample ID: 1710319-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1260 [2]	0.10	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.0	30-150							
Decachlorobiphenyl [2]	94.0	30-150							
Tetrachloro-m-xylene [1]	97.2	30-150							
Tetrachloro-m-xylene [2]	99.5	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-3

Sampled: 9/8/2017 10:47

Sample ID: 1710319-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-4

Sampled: 9/8/2017 10:48

Sample ID: 1710319-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.2	30-150							
Decachlorobiphenyl [2]	93.2	30-150							
Tetrachloro-m-xylene [1]	98.6	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-4

Sampled: 9/8/2017 10:48

Sample ID: 1710319-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-1

Sampled: 9/8/2017 10:57

Sample ID: 1710319-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1221 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1232 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1242 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1248 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1254 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1260 [1]	2.3	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1262 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1268 [1]	9.6	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/21/17 11:04	
Decachlorobiphenyl [2]	*	30-150			S-01			9/21/17 11:04	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/21/17 11:04	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/21/17 11:04	

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-1

Sampled: 9/8/2017 10:57

Sample ID: 1710319-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-2

Sampled: 9/8/2017 10:58

Sample ID: 1710319-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1268 [1]	0.13	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	94.4	30-150							
Tetrachloro-m-xylene [2]	96.8	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-2

Sampled: 9/8/2017 10:58

Sample ID: 1710319-04

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	820	280	mg/Kg dry	25		CTDEP ETPH	9/15/17	9/20/17 16:11	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150				9/20/17 16:11		

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-2

Sampled: 9/8/2017 10:58

Sample ID: 1710319-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-3

Sampled: 9/8/2017 10:59

Sample ID: 1710319-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.5	30-150							
Decachlorobiphenyl [2]	95.3	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-3

Sampled: 9/8/2017 10:59

Sample ID: 1710319-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-4

Sampled: 9/8/2017 11:00

Sample ID: 1710319-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.2	30-150							
Decachlorobiphenyl [2]	96.0	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-4

Sampled: 9/8/2017 11:00

Sample ID: 1710319-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-1

Sampled: 9/8/2017 11:18

Sample ID: 1710319-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1260 [2]	0.10	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.5	30-150							
Decachlorobiphenyl [2]	92.3	30-150							
Tetrachloro-m-xylene [1]	96.0	30-150							
Tetrachloro-m-xylene [2]	98.9	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-1

Sampled: 9/8/2017 11:18

Sample ID: 1710319-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-2

Sampled: 9/8/2017 11:19

Sample ID: 1710319-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1260 [2]	0.22	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1268 [1]	0.24	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.6	30-150						9/21/17 6:27	
Decachlorobiphenyl [2]	95.3	30-150						9/21/17 6:27	
Tetrachloro-m-xylene [1]	98.2	30-150						9/21/17 6:27	
Tetrachloro-m-xylene [2]	99.2	30-150						9/21/17 6:27	

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-2

Sampled: 9/8/2017 11:19

Sample ID: 1710319-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:18	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	52.1		50-150					9/20/17 2:18	

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-2

Sampled: 9/8/2017 11:19

Sample ID: 1710319-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-3

Sampled: 9/8/2017 11:20

Sample ID: 1710319-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.5	30-150							
Decachlorobiphenyl [2]	89.8	30-150							
Tetrachloro-m-xylene [1]	95.8	30-150							
Tetrachloro-m-xylene [2]	98.0	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-3

Sampled: 9/8/2017 11:20

Sample ID: 1710319-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-4

Sampled: 9/8/2017 11:21

Sample ID: 1710319-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.3	30-150							
Decachlorobiphenyl [2]	96.8	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	99.5	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-4

Sampled: 9/8/2017 11:21

Sample ID: 1710319-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-1

Sampled: 9/8/2017 11:19

Sample ID: 1710319-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1248 [1]	0.35	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1260 [1]	0.17	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1268 [2]	0.13	0.085	mg/Kg dry	4	P-02	SW-846 8082A	9/15/17	9/21/17 8:07	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.3	30-150							
Decachlorobiphenyl [2]	76.3	30-150							
Tetrachloro-m-xylene [1]	83.7	30-150							
Tetrachloro-m-xylene [2]	86.3	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-1

Sampled: 9/8/2017 11:19

Sample ID: 1710319-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-2

Sampled: 9/8/2017 11:20

Sample ID: 1710319-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1260 [2]	0.20	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.0	30-150							
Decachlorobiphenyl [2]	92.5	30-150							
Tetrachloro-m-xylene [1]	98.5	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-2

Sampled: 9/8/2017 11:20

Sample ID: 1710319-12

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	65	11	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	53.0		50-150					9/19/17 3:02	

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-2

Sampled: 9/8/2017 11:20

Sample ID: 1710319-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-3

Sampled: 9/8/2017 11:21

Sample ID: 1710319-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.1	30-150							
Decachlorobiphenyl [2]	93.1	30-150							
Tetrachloro-m-xylene [1]	98.4	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-3

Sampled: 9/8/2017 11:21

Sample ID: 1710319-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-4

Sampled: 9/8/2017 11:22

Sample ID: 1710319-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.4	30-150							
Decachlorobiphenyl [2]	91.1	30-150							
Tetrachloro-m-xylene [1]	95.1	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

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

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

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-4

Sampled: 9/8/2017 11:22

Sample ID: 1710319-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-1

Sampled: 9/8/2017 11:33

Sample ID: 1710319-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1260 [2]	0.31	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1268 [1]	0.28	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.1	30-150							
Decachlorobiphenyl [2]	89.7	30-150							
Tetrachloro-m-xylene [1]	92.8	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-1

Sampled: 9/8/2017 11:33

Sample ID: 1710319-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2

Sampled: 9/8/2017 11:34

Sample ID: 1710319-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Acenaphthene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Acenaphthylene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Acenaphthylene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Anthracene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Anthracene	1.3	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(a)anthracene	4.9	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(a)anthracene	4.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(a)pyrene	4.0	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(a)pyrene	3.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(b)fluoranthene	5.1	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(b)fluoranthene	4.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(g,h,i)perylene	2.1	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(g,h,i)perylene	1.9	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(k)fluoranthene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(k)fluoranthene	1.9	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Chrysene	4.5	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Chrysene	4.2	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Dibenz(a,h)anthracene	0.65	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Dibenz(a,h)anthracene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Fluoranthene	12	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Fluoranthene	10	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Fluorene	0.39	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Fluorene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Indeno(1,2,3-cd)pyrene	2.4	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Indeno(1,2,3-cd)pyrene	2.1	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
2-Methylnaphthalene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
2-Methylnaphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Naphthalene	0.80	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Naphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Phenanthrene	8.7	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Phenanthrene	7.1	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Pyrene	9.9	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Pyrene	8.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	52.8	30-130							
Nitrobenzene-d5	50.7	30-130							
2-Fluorobiphenyl	66.0	30-130							
2-Fluorobiphenyl	61.6	30-130							
p-Terphenyl-d14	73.4	30-130							
p-Terphenyl-d14	68.7	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2

Sampled: 9/8/2017 11:34

Sample ID: 1710319-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.5	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	98.5	30-150							
Tetrachloro-m-xylene [2]	98.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2

Sampled: 9/8/2017 11:34

Sample ID: 1710319-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	230	60	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:36	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	52.1		50-150					9/20/17 2:36	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2

Sampled: 9/8/2017 11:34

Sample ID: 1710319-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-3

Sampled: 9/8/2017 11:35

Sample ID: 1710319-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.6	30-150							
Decachlorobiphenyl [2]	94.4	30-150							
Tetrachloro-m-xylene [1]	98.3	30-150							
Tetrachloro-m-xylene [2]	99.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-3

Sampled: 9/8/2017 11:35

Sample ID: 1710319-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-4

Sampled: 9/8/2017 11:36

Sample ID: 1710319-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.3	30-150						9/21/17 10:11	
Decachlorobiphenyl [2]	113	30-150						9/21/17 10:11	
Tetrachloro-m-xylene [1]	99.2	30-150						9/21/17 10:11	
Tetrachloro-m-xylene [2]	97.1	30-150						9/21/17 10:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-4

Sampled: 9/8/2017 11:36

Sample ID: 1710319-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-1

Sampled: 9/8/2017 11:35

Sample ID: 1710319-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1260 [2]	0.16	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.9	30-150							
Decachlorobiphenyl [2]	88.0	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	94.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-1

Sampled: 9/8/2017 11:35

Sample ID: 1710319-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-2

Sampled: 9/8/2017 11:36

Sample ID: 1710319-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.0	30-150							
Decachlorobiphenyl [2]	95.4	30-150							
Tetrachloro-m-xylene [1]	98.2	30-150							
Tetrachloro-m-xylene [2]	98.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-2

Sampled: 9/8/2017 11:36

Sample ID: 1710319-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	100	12	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:37	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	57.4		50-150					9/19/17 3:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-2

Sampled: 9/8/2017 11:36

Sample ID: 1710319-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0319-04 [WS-AOC-6-SO-13-2]	B186332	30.1	1.00	09/15/17
17I0319-08 [WS-AOC-6-SO-7-2]	B186332	30.0	1.00	09/15/17
17I0319-12 [WS-AOC-6-SO-17-2]	B186332	30.0	1.00	09/15/17
17I0319-16 [WS-AOC-6-SO-8-2]	B186332	30.1	1.00	09/15/17
17I0319-20 [WS-AOC-6-SO-16-2]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0319-01 [WS-AOC-6-SO-5-3]	B186207	09/14/17
17I0319-02 [WS-AOC-6-SO-5-4]	B186207	09/14/17
17I0319-03 [WS-AOC-6-SO-13-1]	B186207	09/14/17
17I0319-04 [WS-AOC-6-SO-13-2]	B186207	09/14/17
17I0319-05 [WS-AOC-6-SO-13-3]	B186207	09/14/17
17I0319-06 [WS-AOC-6-SO-13-4]	B186207	09/14/17
17I0319-07 [WS-AOC-6-SO-7-1]	B186207	09/14/17
17I0319-08 [WS-AOC-6-SO-7-2]	B186207	09/14/17
17I0319-09 [WS-AOC-6-SO-7-3]	B186207	09/14/17
17I0319-10 [WS-AOC-6-SO-7-4]	B186207	09/14/17
17I0319-11 [WS-AOC-6-SO-17-1]	B186207	09/14/17
17I0319-12 [WS-AOC-6-SO-17-2]	B186207	09/14/17
17I0319-13 [WS-AOC-6-SO-17-3]	B186207	09/14/17
17I0319-14 [WS-AOC-6-SO-17-4]	B186207	09/14/17
17I0319-15 [WS-AOC-6-SO-8-1]	B186207	09/14/17
17I0319-16 [WS-AOC-6-SO-8-2]	B186207	09/14/17
17I0319-17 [WS-AOC-6-SO-8-3]	B186207	09/14/17
17I0319-18 [WS-AOC-6-SO-8-4]	B186207	09/14/17
17I0319-19 [WS-AOC-6-SO-16-1]	B186207	09/14/17
17I0319-20 [WS-AOC-6-SO-16-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0319-01 [WS-AOC-6-SO-5-3]	B186355	10.7	10.0	09/15/17
17I0319-02 [WS-AOC-6-SO-5-4]	B186355	10.2	10.0	09/15/17
17I0319-03 [WS-AOC-6-SO-13-1]	B186355	10.6	10.0	09/15/17
17I0319-04 [WS-AOC-6-SO-13-2]	B186355	10.3	10.0	09/15/17
17I0319-05 [WS-AOC-6-SO-13-3]	B186355	10.7	10.0	09/15/17
17I0319-06 [WS-AOC-6-SO-13-4]	B186355	10.5	10.0	09/15/17
17I0319-07 [WS-AOC-6-SO-7-1]	B186355	10.2	10.0	09/15/17
17I0319-08 [WS-AOC-6-SO-7-2]	B186355	10.4	10.0	09/15/17
17I0319-09 [WS-AOC-6-SO-7-3]	B186355	10.2	10.0	09/15/17
17I0319-10 [WS-AOC-6-SO-7-4]	B186355	10.6	10.0	09/15/17
17I0319-11 [WS-AOC-6-SO-17-1]	B186355	10.4	10.0	09/15/17
17I0319-12 [WS-AOC-6-SO-17-2]	B186355	10.5	10.0	09/15/17
17I0319-13 [WS-AOC-6-SO-17-3]	B186355	10.6	10.0	09/15/17
17I0319-14 [WS-AOC-6-SO-17-4]	B186355	10.4	10.0	09/15/17
17I0319-15 [WS-AOC-6-SO-8-1]	B186355	10.3	10.0	09/15/17
17I0319-16 [WS-AOC-6-SO-8-2]	B186355	10.2	10.0	09/15/17
17I0319-17 [WS-AOC-6-SO-8-3]	B186355	10.6	10.0	09/15/17
17I0319-18 [WS-AOC-6-SO-8-4]	B186355	10.7	10.0	09/15/17
17I0319-19 [WS-AOC-6-SO-16-1]	B186355	10.3	10.0	09/15/17
17I0319-20 [WS-AOC-6-SO-16-2]	B186355	10.6	10.0	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0319-16 [WS-AOC-6-SO-8-2]	B186330	30.0	1.00	09/15/17
17I0319-16RE1 [WS-AOC-6-SO-8-2]	B186330	30.0	1.00	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186330 - SW-846 3546
Blank (B186330-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.9	30-130			

LCS (B186330-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.3	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)					Prepared: 09/15/17 Analyzed: 09/18/17					
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	3.76		mg/Kg wet	3.33		113	30-130			

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 B186355 - SW-846 3540C
Blank (B186355-BLK1)

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.7	30-150			

LCS (B186355-BS1)

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.6	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		87.5	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140			
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		96.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.6	30-150			

LCS Dup (B186355-BSD1)

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.4	40-140	0.768	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		92.1	40-140	5.11	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		87.2	40-140	3.08	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.2	40-140	0.874	30	
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			

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 B186355 - SW-846 3540C

Matrix Spike (B186355-MS1)

Source: 17I0319-01

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	0.22	0.090	mg/Kg dry	0.226	ND	95.4	40-140			
Aroclor-1016 [2C]	0.21	0.090	mg/Kg dry	0.226	ND	93.9	40-140			
Aroclor-1260	0.26	0.090	mg/Kg dry	0.226	0.096	73.2	40-140			
Aroclor-1260 [2C]	0.26	0.090	mg/Kg dry	0.226	0.10	68.4	40-140			
Surrogate: Decachlorobiphenyl	0.202		mg/Kg dry	0.226		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg dry	0.226		87.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg dry	0.226		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg dry	0.226		81.5	30-150			

Matrix Spike Dup (B186355-MSD1)

Source: 17I0319-01

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	0.25	0.090	mg/Kg dry	0.226	ND	109	40-140	13.0	50	
Aroclor-1016 [2C]	0.23	0.090	mg/Kg dry	0.226	ND	103	40-140	8.98	50	
Aroclor-1260	0.28	0.090	mg/Kg dry	0.226	0.096	80.8	40-140	6.40	50	
Aroclor-1260 [2C]	0.27	0.090	mg/Kg dry	0.226	0.10	74.7	40-140	5.43	50	
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.226		96.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg dry	0.226		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.226		99.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.228		mg/Kg dry	0.226		101	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186332 - SW-846 3546
Blank (B186332-BLK1)

Prepared: 09/15/17 Analyzed: 09/19/17

CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.07		mg/Kg wet	3.33		92.1	50-150			

LCS (B186332-BS1)

Prepared: 09/15/17 Analyzed: 09/19/17

CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	3.55		mg/Kg wet	3.33		106	50-150			

LCS Dup (B186332-BSD1)

Prepared: 09/15/17 Analyzed: 09/19/17

CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	3.40		mg/Kg wet	3.33		102	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186207 - % Solids
Duplicate (B186207-DUP5)
Source: 17I0319-01

Prepared: 09/14/17 Analyzed: 09/15/17

% Solids	86.3		% Wt		86.9			0.693	20	
----------	------	--	------	--	------	--	--	-------	----	--

Duplicate (B186207-DUP6)
Source: 17I0319-02

Prepared: 09/14/17 Analyzed: 09/15/17

% Solids	79.1		% Wt		83.3			5.17	20	
----------	------	--	------	--	------	--	--	------	----	--

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-6-SO-5-3***SW-846 8082A*Lab Sample ID: 17I0319-01 Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.096	
	2	0.000	-0.030	0.030	0.10	4.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-13-1

Lab Sample ID: 1710319-03 Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.3	
	2	0.000	-0.030	0.030	2.1	9.1
Aroclor-1268	1	0.000	-0.030	0.030	9.6	
	2	0.000	-0.030	0.030	7.6	23.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-13-2**

Lab Sample ID: 17I0319-04 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-7-1**

Lab Sample ID: 17I0319-07 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.095	
	2	0.000	-0.030	0.030	0.10	5.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-7-2**Lab Sample ID: 17I0319-08 Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.22	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.22	8.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-17-1

Lab Sample ID: 17I0319-11 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.30	15.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	18.2
Aroclor-1268	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.13	42.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-17-2**Lab Sample ID: 17I0319-12 Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-8-1

Lab Sample ID: 1710319-15 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): Instrument ID (2):
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.31	3.3
Aroclor-1268	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.27	3.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-16-1**Lab Sample ID: 17I0319-19 Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>CTDEP ETPH in Soil</i>	
CT ETPH	CT
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Phone: 413-525-2332
 Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume / Will Sirotnak

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

Conc

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

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

☐ Field Filtered
☐ Lab to Filter

 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

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)		Date/Time:	Detection Limit Requirements	
		9/8/17 1520	MA	
Received by: (signature)		Date/Time:		
		9/8/17 1520		
Relinquished by: (signature)		Date/Time:	CT	RES DEC
		9/8/17 1540		
Received by: (signature)		Date/Time:	Other:	
		9/8/17 1545		
Relinquished by: (signature)		Date/Time:		
		9/8/17 1704		
Received by: (signature)		Date/Time:		
		9/8/17 1706		

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analysis Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

17IO319

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid: Malcom Beeler

Invoice Recipient: Malcom Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
 7-Day ☒ 10-Day ☐
 Other: ☐ 5-day ☐
Rush-Approval Required
 1-Day ☐ 3-Day ☐
 2-Day ☐ 4-Day ☐
Data Delivery
 Format: PDF ☒ EXCEL ☒
 Other: ☐
 Enhanced Data Package Required: ☐
 Email To: beelerm@wseinc.com
 Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AQC-6-30-17-1	9/13/17	1119		X	S	U
12	WS-AQC-6-30-17-2		1120				
13	WS-AQC-6-30-17-3		1121				
14	WS-AQC-6-30-17-4		1122				
15	WS-AQC-6-30-17-5		1133				
16	WS-AQC-6-30-17-6		1134				
17	WS-AQC-6-30-17-7		1135				
18	WS-AQC-6-30-17-8		1136				
19	WS-AQC-6-30-17-9		1135				
20	WS-AQC-6-30-17-10		1136				

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:
<i>[Signature]</i>	9/18/17 1520
Received by: (signature)	Date/Time:
<i>[Signature]</i>	9/18/17 1520
Relinquished by: (signature)	Date/Time:
<i>[Signature]</i>	9/18/17 1540
Received by: (signature)	Date/Time:
<i>[Signature]</i>	9/18/17 1540
Relinquished by: (signature)	Date/Time:
<i>[Signature]</i>	9/18/17 1708
Received by: (signature)	Date/Time:
<i>[Signature]</i>	9/18/17 1708

Detection Limit Requirements

MA

CT

Other

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
 Received By JM Date 9/8/17 Time 1708
 How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling Ambient Melted Ice
 Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
 By Blank # Actual Temp -
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? N/A Who was notified?
 Are there Rushes? N/A Who was notified?
 Are there Short Holds? N/A Who was notified?
 Is there enough Volume? T
 Is there Headspace where applicable? N/A MS/MSD? N/A
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919165.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919165.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581953	610650	-5
c - 10	1.62	593472	610650	-3
c - 12	2.34	610263	610650	0
c - 14	3.01	616782	610650	1
c - 16	3.61	626257	610650	3
c - 18	4.23	613483	610650	0
o-Terphenyl	4.51	680975	610650	
c - 20	4.83	616619	610650	1
c - 22	5.33	622698	610650	2
c - 24	5.77	580341	610650	-5
c - 26	6.16	612913	610650	0
c - 28	6.52	610060	610650	0
c - 30	6.85	612659	610650	0
c - 32	7.16	604431	610650	-1
c - 34	7.45	632261	610650	4
c - 36	7.76	625559	610650	2

* One compound allowed %D <= 50%

Samples

1710244-08@25X
 1710244-17@50X
 1710531-05@10X
 1710242-18@5X

D:\HPCHEM\1\DATA\A091917\A0919168.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919168.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.29	558217	618025	-10
c - 10	1.64	570347	618025	-8
c - 12	2.37	590423	618025	-4
c - 14	3.04	604014	618025	-2
c - 16	3.65	622199	618025	1
c - 18	4.28	620256	618025	0
o-Terphenyl	4.56	698283	618025	
c - 20	4.89	633684	618025	3
c - 22	5.39	649827	618025	5
c - 24	5.83	613392	618025	-1
c - 26	6.23	650665	618025	5
c - 28	6.59	645040	618025	4
c - 30	6.92	639031	618025	3
c - 32	7.23	621839	618025	1
c - 34	7.53	625161	618025	1
c - 36	7.87	626287	618025	1

* One compound allowed %D <= 50%

Samples

17I0539-05@5X
 17I0319-04@25X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0319

Laboratory Sample ID(s):

17I0319-01 thru 17I0319-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/21/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 1710320

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0320-01	7
17I0320-02	9
17I0320-03	11
17I0320-04	13
17I0320-05	16
17I0320-06	18
17I0320-07	20
17I0320-08	22
17I0320-09	25
17I0320-10	28
17I0320-11	30
17I0320-12	32
17I0320-13	35
17I0320-14	37
17I0320-15	39
17I0320-16	41
17I0320-17	44
17I0320-18	46
17I0320-19	48
17I0320-20	52
Sample Preparation Information	54
QC Data	56

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS	56
B186330	56
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	58
B186354	58
Petroleum Hydrocarbons Analyses	60
B186332	60
Dual Column RPD Report	61
Flag/Qualifier Summary	67
Certifications	68
Chain of Custody/Sample Receipt	70

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710320

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-16-3	1710320-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-16-4	1710320-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-10-1	1710320-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-10-2	1710320-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-10-3	1710320-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-10-4	1710320-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-15-1	1710320-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-15-2	1710320-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-15-3	1710320-09	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-6-SO-15-4	1710320-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-9-1	1710320-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-9-2	1710320-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-9-3	1710320-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-9-4	1710320-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-14-1	1710320-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-14-2	1710320-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-14-3	1710320-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-14-4	1710320-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710320

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-109-1	1710320-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-12W-SO-109-2	1710320-20	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260

B186354-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-3

Sampled: 9/8/2017 11:37

Sample ID: 1710320-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.3	30-150							
Decachlorobiphenyl [2]	110	30-150							
Tetrachloro-m-xylene [1]	93.5	30-150							
Tetrachloro-m-xylene [2]	91.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-3

Sampled: 9/8/2017 11:37

Sample ID: 1710320-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-4

Sampled: 9/8/2017 11:38

Sample ID: 1710320-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.1	30-150							
Decachlorobiphenyl [2]	95.7	30-150							
Tetrachloro-m-xylene [1]	88.4	30-150							
Tetrachloro-m-xylene [2]	85.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-4

Sampled: 9/8/2017 11:38

Sample ID: 1710320-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-1

Sampled: 9/8/2017 11:53

Sample ID: 1710320-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1260 [1]	0.34	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.9	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	99.0	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-1

Sampled: 9/8/2017 11:53

Sample ID: 1710320-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2

Sampled: 9/8/2017 11:54

Sample ID: 1710320-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.2	30-150							
Decachlorobiphenyl [2]	93.2	30-150							
Tetrachloro-m-xylene [1]	92.6	30-150							
Tetrachloro-m-xylene [2]	90.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2

Sampled: 9/8/2017 11:54

Sample ID: 1710320-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	58	12	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:55	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	55.1		50-150					9/19/17 3:55	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2

Sampled: 9/8/2017 11:54

Sample ID: 1710320-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-3

Sampled: 9/8/2017 11:55

Sample ID: 1710320-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.2	30-150							
Decachlorobiphenyl [2]	103	30-150							
Tetrachloro-m-xylene [1]	97.6	30-150							
Tetrachloro-m-xylene [2]	95.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-3

Sampled: 9/8/2017 11:55

Sample ID: 1710320-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-4

Sampled: 9/8/2017 11:56

Sample ID: 1710320-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	94.8	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	98.5	30-150							
Tetrachloro-m-xylene [2]	96.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-4

Sampled: 9/8/2017 11:56

Sample ID: 1710320-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-1

Sampled: 9/8/2017 11:57

Sample ID: 1710320-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1254 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1260 [2]	2.9	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	114	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	99.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-1

Sampled: 9/8/2017 11:57

Sample ID: 1710320-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2

Sampled: 9/8/2017 11:58

Sample ID: 1710320-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1260 [1]	0.51	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.4	30-150							
Decachlorobiphenyl [2]	93.1	30-150							
Tetrachloro-m-xylene [1]	81.0	30-150							
Tetrachloro-m-xylene [2]	78.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2

Sampled: 9/8/2017 11:58

Sample ID: 1710320-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	66	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	54.5		50-150					9/20/17 2:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2

Sampled: 9/8/2017 11:58

Sample ID: 1710320-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3

Sampled: 9/8/2017 11:59

Sample ID: 1710320-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Chrysene	0.28	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Fluoranthene	0.32	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Phenanthrene	0.41	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Pyrene	0.24	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	48.0	30-130							
2-Fluorobiphenyl	54.3	30-130							
p-Terphenyl-d14	57.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3

Sampled: 9/8/2017 11:59

Sample ID: 1710320-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.0	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	99.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3

Sampled: 9/8/2017 11:59

Sample ID: 1710320-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-4

Sampled: 9/8/2017 12:00

Sample ID: 1710320-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.0	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	92.4	30-150							
Tetrachloro-m-xylene [2]	90.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-4

Sampled: 9/8/2017 12:00

Sample ID: 1710320-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-1

Sampled: 9/8/2017 12:07

Sample ID: 1710320-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1260 [2]	0.10	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1268 [2]	0.20	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	108	30-150						9/22/17 16:26	
Decachlorobiphenyl [2]	127	30-150						9/22/17 16:26	
Tetrachloro-m-xylene [1]	102	30-150						9/22/17 16:26	
Tetrachloro-m-xylene [2]	104	30-150						9/22/17 16:26	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-1

Sampled: 9/8/2017 12:07

Sample ID: 1710320-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2

Sampled: 9/8/2017 12:08

Sample ID: 1710320-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.6	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	99.5	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2

Sampled: 9/8/2017 12:08

Sample ID: 1710320-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	170	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	59.6		50-150					9/20/17 3:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2

Sampled: 9/8/2017 12:08

Sample ID: 1710320-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-3

Sampled: 9/8/2017 12:09

Sample ID: 1710320-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.1	30-150							
Decachlorobiphenyl [2]	109	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-3

Sampled: 9/8/2017 12:09

Sample ID: 1710320-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-4

Sampled: 9/8/2017 12:10

Sample ID: 1710320-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.6	30-150						9/22/17 0:20	
Decachlorobiphenyl [2]	112	30-150						9/22/17 0:20	
Tetrachloro-m-xylene [1]	90.2	30-150						9/22/17 0:20	
Tetrachloro-m-xylene [2]	85.6	30-150						9/22/17 0:20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-4

Sampled: 9/8/2017 12:10

Sample ID: 1710320-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-1

Sampled: 9/8/2017 12:26

Sample ID: 1710320-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1248 [2]	0.90	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1260 [1]	0.98	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150						9/22/17 9:32	
Decachlorobiphenyl [2]	86.3	30-150						9/22/17 9:32	
Tetrachloro-m-xylene [1]	92.2	30-150						9/22/17 9:32	
Tetrachloro-m-xylene [2]	90.0	30-150						9/22/17 9:32	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-1

Sampled: 9/8/2017 12:26

Sample ID: 1710320-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2

Sampled: 9/8/2017 12:27

Sample ID: 1710320-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1248 [1]	0.38	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1260 [2]	1.4	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.3	30-150						9/22/17 9:44	
Decachlorobiphenyl [2]	103	30-150						9/22/17 9:44	
Tetrachloro-m-xylene [1]	91.0	30-150						9/22/17 9:44	
Tetrachloro-m-xylene [2]	87.6	30-150						9/22/17 9:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2

Sampled: 9/8/2017 12:27

Sample ID: 1710320-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	89	11	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 4:47	SCS
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
o-Terphenyl	55.4	50-150						9/19/17 4:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2

Sampled: 9/8/2017 12:27

Sample ID: 1710320-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-3

Sampled: 9/8/2017 12:28

Sample ID: 1710320-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.2	30-150						9/22/17 1:11	
Decachlorobiphenyl [2]	96.8	30-150						9/22/17 1:11	
Tetrachloro-m-xylene [1]	94.6	30-150						9/22/17 1:11	
Tetrachloro-m-xylene [2]	92.2	30-150						9/22/17 1:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-3

Sampled: 9/8/2017 12:28

Sample ID: 1710320-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-4

Sampled: 9/8/2017 12:29

Sample ID: 1710320-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.6	30-150						9/22/17 1:29	
Decachlorobiphenyl [2]	103	30-150						9/22/17 1:29	
Tetrachloro-m-xylene [1]	98.6	30-150						9/22/17 1:29	
Tetrachloro-m-xylene [2]	95.0	30-150						9/22/17 1:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-4

Sampled: 9/8/2017 12:29

Sample ID: 1710320-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1

Sampled: 9/8/2017 13:04

Sample ID: 1710320-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(a)anthracene	0.88	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(a)pyrene	0.84	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(b)fluoranthene	0.90	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(g,h,i)perylene	0.47	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(k)fluoranthene	0.36	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Chrysene	0.77	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Fluoranthene	1.7	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Indeno(1,2,3-cd)pyrene	0.54	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Naphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Phenanthrene	0.47	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Pyrene	1.6	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	55.7	30-130							
2-Fluorobiphenyl	61.4	30-130							
p-Terphenyl-d14	66.5	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1

Sampled: 9/8/2017 13:04

Sample ID: 1710320-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.2	30-150						9/22/17 1:46	
Decachlorobiphenyl [2]	104	30-150						9/22/17 1:46	
Tetrachloro-m-xylene [1]	106	30-150						9/22/17 1:46	
Tetrachloro-m-xylene [2]	95.8	30-150						9/22/17 1:46	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1

Sampled: 9/8/2017 13:04

Sample ID: 1710320-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	50.1		50-150				9/19/17 18:38		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1

Sampled: 9/8/2017 13:04

Sample ID: 1710320-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-2

Sampled: 9/8/2017 13:05

Sample ID: 1710320-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.4	30-150						9/22/17 2:03	
Decachlorobiphenyl [2]	106	30-150						9/22/17 2:03	
Tetrachloro-m-xylene [1]	93.4	30-150						9/22/17 2:03	
Tetrachloro-m-xylene [2]	87.9	30-150						9/22/17 2:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-2

Sampled: 9/8/2017 13:05

Sample ID: 1710320-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-04 [WS-AOC-6-SO-10-2]	B186332	30.1	1.00	09/15/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186332	30.2	1.00	09/15/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186332	30.0	1.00	09/15/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186332	30.1	1.00	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0320-01 [WS-AOC-6-SO-16-3]	B186207	09/14/17
17I0320-02 [WS-AOC-6-SO-16-4]	B186207	09/14/17
17I0320-03 [WS-AOC-6-SO-10-1]	B186207	09/14/17
17I0320-04 [WS-AOC-6-SO-10-2]	B186207	09/14/17
17I0320-05 [WS-AOC-6-SO-10-3]	B186207	09/14/17
17I0320-06 [WS-AOC-6-SO-10-4]	B186207	09/14/17
17I0320-07 [WS-AOC-6-SO-15-1]	B186207	09/14/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186207	09/14/17
17I0320-09 [WS-AOC-6-SO-15-3]	B186207	09/14/17
17I0320-10 [WS-AOC-6-SO-15-4]	B186207	09/14/17
17I0320-11 [WS-AOC-6-SO-9-1]	B186207	09/14/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186207	09/14/17
17I0320-13 [WS-AOC-6-SO-9-3]	B186207	09/14/17
17I0320-14 [WS-AOC-6-SO-9-4]	B186207	09/14/17
17I0320-15 [WS-AOC-6-SO-14-1]	B186207	09/14/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186207	09/14/17
17I0320-17 [WS-AOC-6-SO-14-3]	B186207	09/14/17
17I0320-18 [WS-AOC-6-SO-14-4]	B186207	09/14/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186207	09/14/17
17I0320-20 [WS-AOC-12W-SO-109-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-01 [WS-AOC-6-SO-16-3]	B186354	10.6	10.0	09/15/17
17I0320-02 [WS-AOC-6-SO-16-4]	B186354	10.0	10.0	09/15/17
17I0320-03 [WS-AOC-6-SO-10-1]	B186354	10.1	10.0	09/15/17
17I0320-04 [WS-AOC-6-SO-10-2]	B186354	10.4	10.0	09/15/17
17I0320-05 [WS-AOC-6-SO-10-3]	B186354	10.3	10.0	09/15/17
17I0320-06 [WS-AOC-6-SO-10-4]	B186354	10.3	10.0	09/15/17
17I0320-07 [WS-AOC-6-SO-15-1]	B186354	10.6	10.0	09/15/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186354	10.3	10.0	09/15/17
17I0320-09 [WS-AOC-6-SO-15-3]	B186354	10.4	10.0	09/15/17
17I0320-10 [WS-AOC-6-SO-15-4]	B186354	10.7	10.0	09/15/17
17I0320-11 [WS-AOC-6-SO-9-1]	B186354	10.3	10.0	09/15/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186354	10.0	10.0	09/15/17
17I0320-13 [WS-AOC-6-SO-9-3]	B186354	10.2	10.0	09/15/17
17I0320-14 [WS-AOC-6-SO-9-4]	B186354	10.7	10.0	09/15/17
17I0320-15 [WS-AOC-6-SO-14-1]	B186354	10.3	10.0	09/15/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186354	10.7	10.0	09/15/17
17I0320-17 [WS-AOC-6-SO-14-3]	B186354	10.2	10.0	09/15/17
17I0320-18 [WS-AOC-6-SO-14-4]	B186354	10.1	10.0	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186354	10.0	10.0	09/15/17
17I0320-20 [WS-AOC-12W-SO-109-2]	B186354	10.5	10.0	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-09 [WS-AOC-6-SO-15-3]	B186330	30.0	1.00	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186330	30.0	1.00	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186330 - SW-846 3546
Blank (B186330-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.9	30-130			

LCS (B186330-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.3	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)					Prepared: 09/15/17 Analyzed: 09/18/17					
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	3.76		mg/Kg wet	3.33		113	30-130			

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 B186354 - SW-846 3540C
Blank (B186354-BLK1)

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.0	30-150			

LCS (B186354-BS1)

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.5	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.4	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140			
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg wet	0.200		96.2	30-150			

LCS Dup (B186354-BSD1)

Prepared: 09/15/17 Analyzed: 09/21/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.7	40-140	7.08	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	7.30	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		72.0	40-140	12.2	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.0	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.2	30-150			

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 B186354 - SW-846 3540C

Matrix Spike (B186354-MS1)		Source: 17I0320-03		Prepared: 09/15/17 Analyzed: 09/22/17						
Aroclor-1016	0.32	0.12	mg/Kg dry	0.294	ND	108	40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.294	ND	108	40-140			
Aroclor-1260	0.76	0.12	mg/Kg dry	0.294	0.34	143 *	40-140			L-07
Aroclor-1260 [2C]	0.74	0.12	mg/Kg dry	0.294	0.33	140	40-140			
Surrogate: Decachlorobiphenyl	0.265		mg/Kg dry	0.294		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.306		mg/Kg dry	0.294		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.282		mg/Kg dry	0.294		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.272		mg/Kg dry	0.294		92.5	30-150			
Matrix Spike Dup (B186354-MSD1)		Source: 17I0320-03		Prepared: 09/15/17 Analyzed: 09/22/17						
Aroclor-1016	0.34	0.12	mg/Kg dry	0.299	ND	113	40-140	6.37	50	
Aroclor-1016 [2C]	0.34	0.12	mg/Kg dry	0.299	ND	114	40-140	6.62	50	
Aroclor-1260	0.63	0.12	mg/Kg dry	0.299	0.34	97.0	40-140	18.7	50	
Aroclor-1260 [2C]	0.61	0.12	mg/Kg dry	0.299	0.33	95.4	40-140	18.7	50	
Surrogate: Decachlorobiphenyl	0.255		mg/Kg dry	0.299		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.298		mg/Kg dry	0.299		99.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.296		mg/Kg dry	0.299		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.286		mg/Kg dry	0.299		95.8	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.07		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	3.55		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	3.40		mg/Kg wet	3.33		102	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-6-SO-10-1***SW-846 8082A*

Lab Sample ID: 17I0320-03 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.33	3.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-15-1**Lab Sample ID: 1710320-07 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.9	
	2	0.000	-0.030	0.030	2.9	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-15-2**

Lab Sample ID: 17I0320-08 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.50	2.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-9-1

Lab Sample ID: 17I0320-11 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.094	
	2	0.000	-0.030	0.030	0.10	5.1
Aroclor-1268	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1

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-6-SO-14-1

Lab Sample ID: 1710320-15 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.90	22.2
Aroclor-1260	1	0.000	-0.030	0.030	0.98	
	2	0.000	-0.030	0.030	0.98	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-14-2

Lab Sample ID: 1710320-16 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.38	0.0
Aroclor-1260	1	0.000	-0.030	0.030	1.4	
	2	0.000	-0.030	0.030	1.4	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	5-Day ☐
Rush-Approval Required ☐	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery ☒	
Format: PDF ☒	EXCEL ☒
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-POL-6-20-16-3	9/13/17	1137		X	S	U
2	WS-POL-6-20-16-4		1139				
3	WS-POL-6-20-16-1		1153				
4	WS-POL-6-20-16-2		1154				
5	WS-POL-6-20-16-3		1155				
6	WS-POL-6-20-16-4		1156				
7	WS-POL-6-20-15-1		1157				
8	WS-POL-6-20-15-2		1159				
9	WS-POL-6-20-15-3		1159				
10	WS-POL-6-20-15-4		1200				

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	9/8/17 1520	MA
Received by: (signature)	Date/Time	
<i>[Signature]</i>	9/8/17 1520	
Relinquished by: (signature)	Date/Time	
<i>[Signature]</i>	9/8/17 1540	RES DEC
Received by: (signature)	Date/Time	
<i>[Signature]</i>	9/8/17 1545	
Relinquished by: (signature)	Date/Time	
<i>[Signature]</i>	9/8/17 1708	
Received by: (signature)	Date/Time	
<i>[Signature]</i>	9/8/17 1708	

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

1710320



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

Chris Berthiaume/Will Sirotnak

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 #: ☐

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Beginning Date/Time

Client Sample ID / Description

Con-Test Work Order#

11

WS-POL-6-30-9-1

9/14/17

1207

X

S

C

12

WS-POL-6-30-9-2

1203

X

13

WS-POL-6-30-9-3

1204

X

14

WS-POL-6-30-9-4

1210

X

15

WS-POL-6-30-14-1

1220

X

16

WS-POL-6-30-14-2

1227

X

17

WS-POL-6-30-14-3

1223

X

18

WS-POL-6-30-14-4

1229

X

19

WS-POL-12W-30-109-1

1307

X

20

WS-POL-12W-30-109-2

1305

X

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil/Solid

SL = Sludge

O = Other (please define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define)

3 Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

Program Information

MCP Analytical Certification Form Required

RCP Analytical Certification Form Required

MA State DW Form Required

PWSID #

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tapered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified?
Are there Rushes? N/A Who was notified?
Are there Short Holds? N/A Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0320

Laboratory Sample ID(s):

17I0320-01 thru 17I0320-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/22/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 1710321

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17I0321-01	6
17I0321-02	8
17I0321-03	12
17I0321-04	14
17I0321-05	16
17I0321-06	20
17I0321-07	22
17I0321-08	24
17I0321-09	27
17I0321-10	29
17I0321-11	31
17I0321-12	33
17I0321-13	35
17I0321-14	37
17I0321-15	39
Sample Preparation Information	41
QC Data	42
Semivolatile Organic Compounds by GC/MS	42
B186330	42
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	44
B186353	44
Petroleum Hydrocarbons Analyses	45

Table of Contents (continued)

B186332	45
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	46
B186207	46
Flag/Qualifier Summary	47
Certifications	48
Chain of Custody/Sample Receipt	50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710321

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-109-3	1710321-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-108-1	1710321-02	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-12W-SO-108-2	1710321-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-108-3	1710321-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-106-1	1710321-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-12W-SO-106-2	1710321-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-106-3	1710321-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP52	1710321-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP53	1710321-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP54	1710321-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP55	1710321-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP56	1710321-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP57	1710321-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP58	1710321-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-DUP59	1710321-15	Soil		SM 2540G SW-846 8082A	

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

1710321-02[WS-AOC-12W-SO-108-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150							
Decachlorobiphenyl [2]	89.0	30-150							
Tetrachloro-m-xylene [1]	91.0	30-150							
Tetrachloro-m-xylene [2]	94.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Anthracene	0.37	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)anthracene	1.3	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)pyrene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(b)fluoranthene	1.4	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(g,h,i)perylene	0.63	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(k)fluoranthene	0.47	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Chrysene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluoranthene	3.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Phenanthrene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Pyrene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	60.4	30-130							
2-Fluorobiphenyl	74.2	30-130							
p-Terphenyl-d14	79.3	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.1	30-150						9/20/17 19:12	
Decachlorobiphenyl [2]	78.6	30-150						9/20/17 19:12	
Tetrachloro-m-xylene [1]	90.6	30-150						9/20/17 19:12	
Tetrachloro-m-xylene [2]	93.7	30-150						9/20/17 19:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	280	mg/Kg dry	20		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 3:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.3	30-150							
Decachlorobiphenyl [2]	69.6	30-150							
Tetrachloro-m-xylene [1]	74.8	30-150							
Tetrachloro-m-xylene [2]	79.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.8	30-150							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	94.5	30-150							
Tetrachloro-m-xylene [2]	95.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)anthracene	0.95	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)pyrene	0.98	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(b)fluoranthene	1.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(g,h,i)perylene	0.57	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(k)fluoranthene	0.44	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Chrysene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluoranthene	2.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Indeno(1,2,3-cd)pyrene	0.63	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Naphthalene	0.32	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Phenanthrene	0.52	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Pyrene	2.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	55.7	30-130							
2-Fluorobiphenyl	62.6	30-130							
p-Terphenyl-d14	64.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.3	30-150							
Decachlorobiphenyl [2]	87.6	30-150							
Tetrachloro-m-xylene [1]	87.6	30-150							
Tetrachloro-m-xylene [2]	91.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	55.4		50-150			9/19/17 18:56			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.7	30-150							
Decachlorobiphenyl [2]	90.0	30-150							
Tetrachloro-m-xylene [1]	87.2	30-150							
Tetrachloro-m-xylene [2]	91.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	97.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.5	30-150							
Decachlorobiphenyl [2]	89.4	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	80	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 19:14	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	73.8		50-150			9/19/17 19:14			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	97.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	60.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.4	30-150							
Decachlorobiphenyl [2]	90.8	30-150							
Tetrachloro-m-xylene [1]	90.1	30-150							
Tetrachloro-m-xylene [2]	92.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150						9/20/17 23:33	
Decachlorobiphenyl [2]	86.8	30-150						9/20/17 23:33	
Tetrachloro-m-xylene [1]	90.6	30-150						9/20/17 23:33	
Tetrachloro-m-xylene [2]	93.0	30-150						9/20/17 23:33	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	77.5	30-150							
Tetrachloro-m-xylene [2]	81.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.2	30-150							
Decachlorobiphenyl [2]	92.0	30-150							
Tetrachloro-m-xylene [1]	96.8	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.5	30-150							
Decachlorobiphenyl [2]	89.5	30-150							
Tetrachloro-m-xylene [1]	95.1	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	95.2	30-150							
Tetrachloro-m-xylene [1]	92.1	30-150							
Tetrachloro-m-xylene [2]	93.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186332	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186332	30.1	1.00	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186332	30.1	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186207	09/14/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186207	09/14/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186207	09/14/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186207	09/14/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186207	09/14/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186207	09/14/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186207	09/14/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186207	09/14/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186207	09/14/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186207	09/14/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186207	09/14/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186207	09/14/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186207	09/14/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186207	09/14/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186353	10.4	10.0	09/15/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186353	10.2	10.0	09/15/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186353	10.5	10.0	09/15/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186353	10.6	10.0	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186353	10.6	10.0	09/15/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186353	10.4	10.0	09/15/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186353	10.4	10.0	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186353	10.5	10.0	09/15/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186353	10.5	10.0	09/15/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186353	10.6	10.0	09/15/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186353	10.4	10.0	09/15/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186353	10.8	10.0	09/15/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186353	10.6	10.0	09/15/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186353	10.5	10.0	09/15/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186353	10.3	10.0	09/15/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186330	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186330	30.1	1.00	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186330 - SW-846 3546
Blank (B186330-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.9	30-130			

LCS (B186330-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.3	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)					Prepared: 09/15/17 Analyzed: 09/18/17					
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	3.76		mg/Kg wet	3.33		113	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186353 - SW-846 3540C

Blank (B186353-BLK1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			

LCS (B186353-BS1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			

LCS Dup (B186353-BSD1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.07		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	3.55		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	3.40		mg/Kg wet	3.33		102	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186207 - % Solids
Duplicate (B186207-DUP7)
Source: 1710321-01

Prepared: 09/14/17 Analyzed: 09/15/17

% Solids	55.2		% Wt		58.0			4.95	20	
----------	------	--	------	--	------	--	--	------	----	--

Duplicate (B186207-DUP8)
Source: 1710321-02

Prepared: 09/14/17 Analyzed: 09/15/17

% Solids	67.5		% Wt		72.1			6.59	20	
----------	------	--	------	--	------	--	--	------	----	--

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>CTDEP ETPH in Soil</i>	
CT ETPH	CT
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1710321



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

Chris Berthiaume/Will Sirotiak

17IO321

con-test[®]
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name: Weston & Sampson Engineers		Requested Turnaround Time		7-Day ☒ 10-Day ☐		Other: ☐ 5-day ☐	
Address: 273 Dividend Rd Rocky Hill, CT		Rush-Approval Required		1-Day ☐ 3-Day ☐		2-Day ☐ 4-Day ☐	
Phone: 860 513-1473		Data Delivery		Format: ☒ EXCEL ☐		Other: ☐	
Project Name: English Station		Enhanced Data Package Required: ☐		Email To: bee@erm@wseinc.com		Fax To #: bee@erm@wseinc.com	
Project Location: 510 Grand Ave, New Haven, CT		Other: ☐		Ending Date/Time		Composite	
Project Number: 2170495		Other: ☐		Grab		Matrix Code	
Project Manager: Malcolm Beeler		Other: ☐		Conc Code		Conc Code	
Con-Test Bid:		Other: ☐		Conc Code		Conc Code	
Invoice Recipient: Malcolm Beeler (Weston & Sampson)		Other: ☐		Conc Code		Conc Code	
Sampled By: Chris Berthiaume/Will Sirotiak		Other: ☐		Conc Code		Conc Code	
10	WS-POL-6-30-DUP54	9/18/17		X	S		
11	WS-POL-6-30-DUP55						
12	WS-POL-6-30-DUP56						
13	WS-POL-6-30-DUP57						
14	WS-POL-6-30-DUP58						
15	WS-POL-12W-30-DUP59						

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
10	WS-POL-6-30-DUP54	9/18/17			X	S	
11	WS-POL-6-30-DUP55						
12	WS-POL-6-30-DUP56						
13	WS-POL-6-30-DUP57						
14	WS-POL-6-30-DUP58						
15	WS-POL-12W-30-DUP59						

Comments: Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time	Detection Limit Requirements	Program Information
<i>[Signature]</i>	9/18/17 1520	MA	☐ MCP Analytical Certification Form Required ☒ RCP Analysis Certification Form Required ☐ MA State DW Form Required PWSID # _____
<i>[Signature]</i>	9/18/17 1520	CT	
<i>[Signature]</i>	9/18/17 1540		
<i>[Signature]</i>	9/18/17 1548		
<i>[Signature]</i>	9/18/17 17:07		
<i>[Signature]</i>	9/18/17 17:07		

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified?

Are there Rushes? N/A Who was notified?

Are there Short Holds? N/A Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0321

Laboratory Sample ID(s):

17I0321-01 thru 17I0321-15

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☒ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/21/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 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: 17H1359

Enclosed are results of analyses for samples received by the laboratory on August 24, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17H1359-01	6
17H1359-02	7
17H1359-03	8
17H1359-04	9
17H1359-05	10
17H1359-06	11
17H1359-07	12
17H1359-08	13
17H1359-09	14
17H1359-10	15
17H1359-11	16
17H1359-12	17
17H1359-13	18
17H1359-14	19
17H1359-15	20
17H1359-16	22
17H1359-17	24
17H1359-18	26
17H1359-19	28
17H1359-20	30
17H1359-21	32
17H1359-22	33

Table of Contents (continued)

Sample Preparation Information	34
QC Data	35
Polychlorinated Biphenyls By GC/ECD	35
B185250	35
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	36
B185080	36
B185083	37
B185232	38
Dual Column RPD Report	40
Flag/Qualifier Summary	63
Certifications	64
Chain of Custody/Sample Receipt	66

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1359

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-12E-AS-41	17H1359-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-39	17H1359-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-37	17H1359-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-35	17H1359-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-25	17H1359-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-24	17H1359-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-21	17H1359-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-5	17H1359-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-17	17H1359-09	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-1	17H1359-10	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-2	17H1359-11	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-3	17H1359-12	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-4	17H1359-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-DUP-18	17H1359-14	Product/Solid		SW-846 8082A	
WS-AOC-14-SE-43	17H1359-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-44	17H1359-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-45	17H1359-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-46	17H1359-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-47	17H1359-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-48	17H1359-20	Soil		SM 2540G	
				SW-846 8082A	
EB-50	17H1359-21	Equipment Blank Water		SW-846 8082A	
EB-51	17H1359-22	Equipment Blank Water		SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A**Qualifications:**

O-28

Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.

Analyte & Samples(s) Qualified:

17H1359-01[WS-AOC-12E-AS-41], 17H1359-02[WS-AOC-12E-AS-39], 17H1359-03[WS-AOC-12E-AS-37], 17H1359-05[WS-AOC-12E-AS-25], 17H1359-06[WS-AOC-12E-AS-24], 17H1359-07[WS-AOC-12E-AS-21]

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**

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1016 [2C]

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260 [2C]

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Aroclor-1260**

B185083-BLK1, B185083-BS1, B185083-BSD1

Aroclor-1260 [2C]

B185083-BLK1, B185083-BS1, B185083-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-41

Sampled: 8/24/2017 10:00

Sample ID: 17H1359-01

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1260 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.2	30-150							
Decachlorobiphenyl [2]	88.1	30-150							
Tetrachloro-m-xylene [1]	88.3	30-150							
Tetrachloro-m-xylene [2]	86.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-39

Sampled: 8/24/2017 10:10

Sample ID: 17H1359-02

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1260 [1]	0.13	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.7	30-150							
Decachlorobiphenyl [2]	84.6	30-150							
Tetrachloro-m-xylene [1]	87.1	30-150							
Tetrachloro-m-xylene [2]	83.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-37

Sampled: 8/24/2017 10:20

Sample ID: 17H1359-03

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1248 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1254 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1260 [1]	0.098	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150							
Decachlorobiphenyl [2]	109	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-35

Sampled: 8/24/2017 10:30

Sample ID: 17H1359-04

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	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1260 [2]	0.14	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.2	30-150						9/5/17 19:47	
Decachlorobiphenyl [2]	93.8	30-150						9/5/17 19:47	
Tetrachloro-m-xylene [1]	76.3	30-150						9/5/17 19:47	
Tetrachloro-m-xylene [2]	91.4	30-150						9/5/17 19:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-25

Sampled: 8/24/2017 10:40

Sample ID: 17H1359-05

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1260 [1]	0.10	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1268 [2]	0.087	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150							
Decachlorobiphenyl [2]	85.8	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	99.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-24

Sampled: 8/24/2017 10:50

Sample ID: 17H1359-06

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1248 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1254 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1260 [1]	0.14	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.2	30-150							
Decachlorobiphenyl [2]	74.2	30-150							
Tetrachloro-m-xylene [1]	94.3	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-21

Sampled: 8/24/2017 11:00

Sample ID: 17H1359-07

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1260 [1]	0.16	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1268 [2]	0.20	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.4	30-150						9/7/17 22:23	
Decachlorobiphenyl [2]	73.8	30-150						9/7/17 22:23	
Tetrachloro-m-xylene [1]	92.0	30-150						9/7/17 22:23	
Tetrachloro-m-xylene [2]	87.7	30-150						9/7/17 22:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-5

Sampled: 8/24/2017 11:10

Sample ID: 17H1359-08

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	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1221 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1232 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1242 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1248 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1254 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1260 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1262 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1268 [2]	0.47	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	118	30-150							
Decachlorobiphenyl [2]	99.6	30-150							
Tetrachloro-m-xylene [1]	112	30-150							
Tetrachloro-m-xylene [2]	75.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-17

Sampled: 8/24/2017 11:20

Sample ID: 17H1359-09

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	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.3	30-150							
Decachlorobiphenyl [2]	82.4	30-150							
Tetrachloro-m-xylene [1]	99.7	30-150							
Tetrachloro-m-xylene [2]	72.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-1

Sampled: 8/24/2017 11:30

Sample ID: 17H1359-10

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	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.8	30-150						9/5/17 16:55	
Decachlorobiphenyl [2]	84.2	30-150						9/5/17 16:55	
Tetrachloro-m-xylene [1]	95.7	30-150						9/5/17 16:55	
Tetrachloro-m-xylene [2]	71.4	30-150						9/5/17 16:55	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-2

Sampled: 8/24/2017 11:40

Sample ID: 17H1359-11

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	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.8	30-150							
Decachlorobiphenyl [2]	72.6	30-150							
Tetrachloro-m-xylene [1]	73.0	30-150							
Tetrachloro-m-xylene [2]	64.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-3

Sampled: 8/24/2017 11:50

Sample ID: 17H1359-12

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	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1221 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1232 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1242 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1248 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1254 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1260 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1262 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1268 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.9	30-150						9/5/17 17:30	
Decachlorobiphenyl [2]	68.7	30-150						9/5/17 17:30	
Tetrachloro-m-xylene [1]	68.0	30-150						9/5/17 17:30	
Tetrachloro-m-xylene [2]	63.5	30-150						9/5/17 17:30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-4

Sampled: 8/24/2017 12:00

Sample ID: 17H1359-13

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	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1221 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1232 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1242 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1248 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1254 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1260 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1262 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1268 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150						9/5/17 17:47	
Decachlorobiphenyl [2]	77.0	30-150						9/5/17 17:47	
Tetrachloro-m-xylene [1]	83.1	30-150						9/5/17 17:47	
Tetrachloro-m-xylene [2]	69.5	30-150						9/5/17 17:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-DUP-18

Sampled: 8/24/2017 00:00

Sample ID: 17H1359-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1268 [2]	0.40	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.9	30-150						9/5/17 18:05	
Decachlorobiphenyl [2]	84.6	30-150						9/5/17 18:05	
Tetrachloro-m-xylene [1]	93.8	30-150						9/5/17 18:05	
Tetrachloro-m-xylene [2]	67.0	30-150						9/5/17 18:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-43

Sampled: 8/24/2017 13:00

Sample ID: 17H1359-15

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	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1248 [1]	0.36	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1254 [2]	0.37	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1260 [2]	0.31	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.2	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	92.7	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-43

Sampled: 8/24/2017 13:00

Sample ID: 17H1359-15

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	27.7		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-44

Sampled: 8/24/2017 13:10

Sample ID: 17H1359-16

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	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1248 [1]	0.55	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1254 [2]	0.72	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1260 [2]	0.40	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.6	30-150						9/9/17 8:04	
Decachlorobiphenyl [2]	110	30-150						9/9/17 8:04	
Tetrachloro-m-xylene [1]	100	30-150						9/9/17 8:04	
Tetrachloro-m-xylene [2]	104	30-150						9/9/17 8:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-44

Sampled: 8/24/2017 13:10

Sample ID: 17H1359-16

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	43.9		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-45

Sampled: 8/24/2017 13:20

Sample ID: 17H1359-17

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	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1221 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1232 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1242 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1248 [1]	4.6	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1254 [2]	4.0	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1260 [2]	1.3	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1262 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1268 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.7	30-150						9/9/17 8:22	
Decachlorobiphenyl [2]	104	30-150						9/9/17 8:22	
Tetrachloro-m-xylene [1]	111	30-150						9/9/17 8:22	
Tetrachloro-m-xylene [2]	98.7	30-150						9/9/17 8:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-45

Sampled: 8/24/2017 13:20

Sample ID: 17H1359-17

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	31.5		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-46

Sampled: 8/24/2017 13:30

Sample ID: 17H1359-18

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	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1248 [2]	0.81	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1254 [2]	0.90	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1260 [2]	0.45	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.6	30-150						9/9/17 8:40	
Decachlorobiphenyl [2]	109	30-150						9/9/17 8:40	
Tetrachloro-m-xylene [1]	86.4	30-150						9/9/17 8:40	
Tetrachloro-m-xylene [2]	98.4	30-150						9/9/17 8:40	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-46

Sampled: 8/24/2017 13:30

Sample ID: 17H1359-18

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	41.6		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-47

Sampled: 8/24/2017 13:40

Sample ID: 17H1359-19

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	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1248 [2]	0.97	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1254 [2]	1.0	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1260 [2]	0.55	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.8	30-150						9/9/17 8:58	
Decachlorobiphenyl [2]	101	30-150						9/9/17 8:58	
Tetrachloro-m-xylene [1]	93.0	30-150						9/9/17 8:58	
Tetrachloro-m-xylene [2]	95.9	30-150						9/9/17 8:58	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-47

Sampled: 8/24/2017 13:40

Sample ID: 17H1359-19

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	38.7		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-48

Sampled: 8/24/2017 13:50

Sample ID: 17H1359-20

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	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1260 [2]	0.30	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.9	30-150						9/9/17 9:16	
Decachlorobiphenyl [2]	95.8	30-150						9/9/17 9:16	
Tetrachloro-m-xylene [1]	80.2	30-150						9/9/17 9:16	
Tetrachloro-m-xylene [2]	87.6	30-150						9/9/17 9:16	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-48

Sampled: 8/24/2017 13:50

Sample ID: 17H1359-20

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	37.5		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: EB-50

Sampled: 8/24/2017 08:00

Sample ID: 17H1359-21

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	R-05	SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	61.0	30-150						9/1/17 14:19	
Decachlorobiphenyl [2]	54.0	30-150						9/1/17 14:19	
Tetrachloro-m-xylene [1]	70.7	30-150						9/1/17 14:19	
Tetrachloro-m-xylene [2]	70.8	30-150						9/1/17 14:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: EB-51

Sampled: 8/24/2017 10:00

Sample ID: 17H1359-22

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.6	30-150						9/1/17 14:32	
Decachlorobiphenyl [2]	61.9	30-150						9/1/17 14:32	
Tetrachloro-m-xylene [1]	95.0	30-150						9/1/17 14:32	
Tetrachloro-m-xylene [2]	90.2	30-150						9/1/17 14:32	

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
17H1359-15 [WS-AOC-14-SE-43]	B185198	08/30/17
17H1359-16 [WS-AOC-14-SE-44]	B185198	08/30/17
17H1359-17 [WS-AOC-14-SE-45]	B185198	08/30/17
17H1359-18 [WS-AOC-14-SE-46]	B185198	08/30/17
17H1359-19 [WS-AOC-14-SE-47]	B185198	08/30/17
17H1359-20 [WS-AOC-14-SE-48]	B185198	08/30/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-08 [WS-AOC-12E-CO-5]	B185080	2.69	10.0	08/29/17
17H1359-09 [WS-AOC-12E-CO-17]	B185080	2.30	10.0	08/29/17
17H1359-10 [WS-AOC-6-CO-1]	B185080	2.39	10.0	08/29/17
17H1359-11 [WS-AOC-6-CO-2]	B185080	2.06	10.0	08/29/17
17H1359-12 [WS-AOC-6-CO-3]	B185080	2.56	10.0	08/29/17
17H1359-13 [WS-AOC-6-CO-4]	B185080	2.77	10.0	08/29/17
17H1359-14 [WS-AOC-12E-CO-DUP-18]	B185080	2.45	10.0	08/29/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-01 [WS-AOC-12E-AS-41]	B185083	10.0	10.0	08/29/17
17H1359-02 [WS-AOC-12E-AS-39]	B185083	10.0	10.0	08/29/17
17H1359-03 [WS-AOC-12E-AS-37]	B185083	10.2	10.0	08/29/17
17H1359-05 [WS-AOC-12E-AS-25]	B185083	10.0	10.0	08/29/17
17H1359-06 [WS-AOC-12E-AS-24]	B185083	10.2	10.0	08/29/17
17H1359-07 [WS-AOC-12E-AS-21]	B185083	10.0	10.0	08/29/17
17H1359-15 [WS-AOC-14-SE-43]	B185083	10.1	10.0	08/29/17
17H1359-16 [WS-AOC-14-SE-44]	B185083	10.0	10.0	08/29/17
17H1359-17 [WS-AOC-14-SE-45]	B185083	10.0	10.0	08/29/17
17H1359-18 [WS-AOC-14-SE-46]	B185083	10.0	10.0	08/29/17
17H1359-19 [WS-AOC-14-SE-47]	B185083	10.1	10.0	08/29/17
17H1359-20 [WS-AOC-14-SE-48]	B185083	10.1	10.0	08/29/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-04RE1 [WS-AOC-12E-AS-35]	B185232	10.0	10.0	08/30/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1359-21 [EB-50]	B185250	1000	10.0	08/30/17
17H1359-22 [EB-51]	B185250	1000	10.0	08/30/17

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 B185250 - SW-846 3510C										
Blank (B185250-BLK1)										
Prepared: 08/30/17 Analyzed: 09/01/17										
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	2.03		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.66		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.4	30-150			
LCS (B185250-BS1)										
Prepared: 08/30/17 Analyzed: 09/01/17										
Aroclor-1016	0.46	0.20	µg/L	0.500		92.6	40-140			R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.6	40-140			R-05
Aroclor-1260	0.45	0.20	µg/L	0.500		90.2	40-140			R-05
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.3	40-140			R-05
Surrogate: Decachlorobiphenyl	2.12		µg/L	2.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.84		µg/L	2.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.71		µg/L	2.00		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.7	30-150			
LCS Dup (B185250-BSD1)										
Prepared: 08/30/17 Analyzed: 09/01/17										
Aroclor-1016	0.36	0.20	µg/L	0.500		71.7	40-140	25.5	* 20	R-05
Aroclor-1016 [2C]	0.38	0.20	µg/L	0.500		76.3	40-140	23.5	* 20	R-05
Aroclor-1260	0.34	0.20	µg/L	0.500		68.6	40-140	27.2	* 20	R-05
Aroclor-1260 [2C]	0.34	0.20	µg/L	0.500		67.3	40-140	24.8	* 20	R-05
Surrogate: Decachlorobiphenyl	1.50		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.32		µg/L	2.00		66.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.31		µg/L	2.00		65.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.1	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185080 - SW-846 3540C
Blank (B185080-BLK1)

Prepared: 08/29/17 Analyzed: 09/05/17

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	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.957		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.807		mg/Kg	1.00		80.7	30-150			

LCS (B185080-BS1)

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.8	40-140			
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		79.7	40-140			
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		78.3	40-140			
Surrogate: Decachlorobiphenyl	0.872		mg/Kg	1.00		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.818		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.880		mg/Kg	1.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.697		mg/Kg	1.00		69.7	30-150			

LCS Dup (B185080-BSD1)

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.6	40-140	7.81	30	
Aroclor-1016 [2C]	0.86	0.10	mg/Kg	1.00		86.1	40-140	7.71	30	
Aroclor-1260	0.85	0.10	mg/Kg	1.00		85.4	40-140	10.3	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.3	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	0.990		mg/Kg	1.00		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.932		mg/Kg	1.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.972		mg/Kg	1.00		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.710		mg/Kg	1.00		71.0	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185080 - SW-846 3540C

Matrix Spike (B185080-MS1)

Source: 17H1359-12

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.79	0.091	mg/Kg	0.909	ND	86.9	40-140			
Aroclor-1016 [2C]	0.66	0.091	mg/Kg	0.909	ND	72.8	40-140			
Aroclor-1260	0.61	0.091	mg/Kg	0.909	ND	67.5	40-140			
Aroclor-1260 [2C]	0.58	0.091	mg/Kg	0.909	ND	63.8	40-140			
Surrogate: Decachlorobiphenyl	0.802		mg/Kg	0.909		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.868		mg/Kg	0.909		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.843		mg/Kg	0.909		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.663		mg/Kg	0.909		72.9	30-150			

Matrix Spike Dup (B185080-MSD1)

Source: 17H1359-12

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.76	0.089	mg/Kg	0.889	ND	85.1	40-140	4.37	50	
Aroclor-1016 [2C]	0.68	0.089	mg/Kg	0.889	ND	76.3	40-140	2.36	50	
Aroclor-1260	0.64	0.089	mg/Kg	0.889	ND	71.4	40-140	3.44	50	
Aroclor-1260 [2C]	0.62	0.089	mg/Kg	0.889	ND	70.3	40-140	7.49	50	
Surrogate: Decachlorobiphenyl	0.765		mg/Kg	0.889		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.712		mg/Kg	0.889		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.838		mg/Kg	0.889		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.628		mg/Kg	0.889		70.6	30-150			

Batch B185083 - SW-846 3540C

Blank (B185083-BLK1)

Prepared: 08/29/17 Analyzed: 09/07/17

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							V-05
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							V-05
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.133		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.142		mg/Kg wet	0.200		70.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185083 - SW-846 3540C

LCS (B185083-BS1)

Prepared: 08/29/17 Analyzed: 09/07/17

Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		66.8	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		69.6	40-140			
Aroclor-1260	0.12	0.020	mg/Kg wet	0.200		58.1	40-140			V-05
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.4	40-140			V-05
Surrogate: Decachlorobiphenyl	0.125		mg/Kg wet	0.200		62.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.137		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.7	30-150			

LCS Dup (B185083-BSD1)

Prepared: 08/29/17 Analyzed: 09/07/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140	16.2	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.1	40-140	18.9	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.3	40-140	23.1	30	V-05
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140	20.3	30	V-05
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg wet	0.200		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.113		mg/Kg wet	0.200		56.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		77.0	30-150			

Batch B185232 - SW-846 3540C

Blank (B185232-BLK1)

Prepared: 08/30/17 Analyzed: 09/05/17

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	0.199		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.183		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		100	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B185232 - SW-846 3540C
LCS (B185232-BS1)

Prepared: 08/30/17 Analyzed: 09/05/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.3	40-140			
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		111	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.3	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.6	40-140			
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.200		105	30-150			

LCS Dup (B185232-BSD1)

Prepared: 08/30/17 Analyzed: 09/05/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	2.75	30	
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		108	40-140	2.73	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		92.0	40-140	0.372	30	
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg wet	0.200		101	30-150			

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12E-AS-39***SW-846 8082A*

Lab Sample ID: 17H1359-02 Date(s) Analyzed 09/07/2017 09/07/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-AS-35**

Lab Sample ID: 17H1359-04RE1 Date(s) Analyzed 09/05/2017 09/05/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.14	24.0

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-12E-AS-25

Lab Sample ID: 17H1359-05 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.10	
	2	0.000	-0.030	0.030	0.091	9.4
Aroclor-1268	1	0.000	-0.030	0.030	0.085	
	2	0.000	-0.030	0.030	0.087	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-AS-24**

Lab Sample ID: 17H1359-06 Date(s) Analyzed 09/07/2017 09/07/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.12	15.4

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-12E-AS-21

Lab Sample ID: 17H1359-07 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3
Aroclor-1268	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.20	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12E-CO-5***SW-846 8082A*

Lab Sample ID: 17H1359-08 Date(s) Analyzed 09/05/2017 09/05/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.47	2.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12E-CO-DUP-18***SW-846 8082A*

Lab Sample ID: 17H1359-14 Date(s) Analyzed 09/05/2017 09/05/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.40	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-14-SE-43***SW-846 8082A*

Lab Sample ID: 17H1359-15 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.37	14.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-44

Lab Sample ID: 17H1359-16 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.55	
	2	0.000	-0.030	0.030	0.51	7.6
Aroclor-1254	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.72	16.5
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.40	22.2

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-45

Lab Sample ID: 17H1359-17 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	4.6	
	2	0.000	-0.030	0.030	4.3	6.7
Aroclor-1254	1	0.000	-0.030	0.030	3.6	
	2	0.000	-0.030	0.030	4.0	10.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-46

Lab Sample ID: 17H1359-18 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.80	
	2	0.000	-0.030	0.030	0.81	1.2
Aroclor-1254	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.90	25.0
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.45	25.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-47

Lab Sample ID: 17H1359-19 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.96	
	2	0.000	-0.030	0.030	0.97	1.0
Aroclor-1254	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	1.0	24.7
Aroclor-1260	1	0.000	-0.030	0.030	0.50	
	2	0.000	-0.030	0.030	0.55	9.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-14-SE-48***SW-846 8082A*

Lab Sample ID: 17H1359-20 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.30	10.5

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: B185080-BS1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.80	4.9
Aroclor-1260	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.78	1.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185080-BSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.86	5.7
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.87	2.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
Matrix Spike

Lab Sample ID: B185080-MS1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.66	17.9
Aroclor-1260	1	0.000	0.000	0.000	0.61	
	2	0.000	0.000	0.000	0.58	5.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B185080-MSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.68	11.1
Aroclor-1260	1	0.000	0.000	0.000	0.64	
	2	0.000	0.000	0.000	0.62	3.2

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: B185083-BS1 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.14	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.12	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185083-BSD1 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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: B185232-BS1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	9.5
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185232-BSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS**

Lab Sample ID: B185250-BS1 Date(s) Analyzed 09/01/2017 09/01/2017
Instrument ID (1): ECD1 Instrument ID (2): ECD1
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.48	4.3
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.43	4.6

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185250-BSD1 Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.38	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.34	
	2	0.000	0.000	0.000	0.34	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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.
O-28	Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8082A in Water</i>	
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
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

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



con-test
ANALYTICAL LABORATORY

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Beeler (Will Sirotnak)

Sampled By: Chris Beeler (Will Sirotnak)

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-ADL-12E-AS-41	8/24/17	1000	X		0	U
2	WS-ADL-12E-AS-39		1010				
3	WS-ADL-12E-AS-37		1020				
4	WS-ADL-12E-AS-35		1030				
5	WS-ADL-12E-AS-25		1040				
6	WS-ADL-12E-AS-24		1050				
7	WS-ADL-12E-AS-21		1100				
8	WS-ADL-12E-AS-20		1110				
9	WS-ADL-12E-AS-17		1120				
10	WS-ADL-6-00-1		1130				

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: 8/24/17 1500

Received by: (signature) Date/Time: 8/24/17 1500

Relinquished by: (signature) Date/Time: 8/24/17 1515

Received by: (signature) Date/Time: 8/24/17 1515

Relinquished by: (signature) Date/Time: 8/24/17 1515

Received by: (signature) Date/Time: 8/24/17 1515

Relinquished by: (signature) Date/Time: 8/24/17 1515

Received by: (signature) Date/Time: 8/24/17 1515

Relinquished by: (signature) Date/Time: 8/24/17 1515

Received by: (signature) Date/Time: 8/24/17 1515

Relinquished by: (signature) Date/Time: 8/24/17 1515

Received by: (signature) Date/Time: 8/24/17 1515

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

Requested Turnaround Time		Rush Approval Required		Data Delivery		Enhanced Data Package Required		Email To: beelerm@wseinc.com		Fax To #:	
7-Day	10-Day	1-Day	3-Day	2-Day	4-Day	Format: PDF	EXCEL	Other:	Enhanced Data Package Required:	Other:	Other:
☒	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐

ANALYSIS REQUESTED

Dissolved Metals Samples		Orthophosphate Samples	
☐ Field Filtered	☐ Lab to Filter	☐ 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)

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson

273 Dividend Rd, Rocky Hill, CT

860-513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Con-Test Quote Name/Number:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: William Sirotnak

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: beelerm@wse.com			
Fax To #:			

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADL-6-60-2	8/24/17	1140	X		D	U
12	WS-ADL-6-60-3		1150				
13	WS-ADL-6-60-4		1200				
14	WS-ADL-DE-60-DR-18						
15	WS-ADL-14-SE-43		1300	X		S	U
16	WS-ADL-14-SE-44		1310				
17	WS-ADL-14-SE-45		1320				
18	WS-ADL-14-SE-46		1330				
19	WS-ADL-14-SE-47		1340				
20	WS-ADL-14-SE-48		1350				

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

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time: 8/24/17 1520	Detection Limit Requirements	Special Requirements
Received by: (signature)	Date/Time: 8/24/17 1500	MA	MA MCP Required
Relinquished by: (signature)	Date/Time: 8/24/17 1555	CT	MCP Certification Form Required
Received by: (signature)	Date/Time: 8/24/17 1555	CT	CT RCP Required
Relinquished by: (signature)	Date/Time: 8/24/17 1555	CT	RCP Certification Form Required
Received by: (signature)	Date/Time: 8/24/17 1555	Other:	MA State DW Required
Relinquished by: (signature)	Date/Time: 8/24/17 1555	PWSID #	
Received by: (signature)	Date/Time: 8/24/17 1555		



NELAP and AIHA-LAP, LLC Accredited

Project Entity	Government	☐	Municipality	☐	MWRA	☐	WRTA	☐	Chromatogram	☐	AIHA-LAP, LLC	☐
	Federal	☐	21 J	☐	School	☐		☐		☐		
	City	☐	Brownfield	☐	MBTA	☐		☐		☐		

Page 68 of 70

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 SM Date 8/24/17 Time 1825

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 - 5.1
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified?
Are there Rushes? N/A Who was notified?
Are there Short Holds? N/A Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	<u>4</u>	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	<u>6</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	<u>16</u>
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: 17H1359

Laboratory Sample ID(s):

17H1359-01 thru 17H1359-22

Sample Date(s):

08/24/2017

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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/12/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 20, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0317

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0317-01	7
17I0317-02	10
17I0317-03	12
17I0317-04	14
17I0317-05	17
17I0317-06	19
17I0317-07	21
17I0317-08	23
17I0317-09	26
17I0317-10	28
17I0317-11	30
17I0317-12	32
17I0317-13	35
17I0317-14	37
17I0317-15	39
17I0317-16	41
17I0317-17	44
17I0317-18	46
17I0317-19	48
17I0317-20	50
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B186360	55
Petroleum Hydrocarbons Analyses	58
B186332	58
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	59
B186207	59
Dual Column RPD Report	60
Flag/Qualifier Summary	67
Certifications	68
Chain of Custody/Sample Receipt	69

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-35-1	1710317-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-2	1710317-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-3	1710317-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-1	1710317-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-2	1710317-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-3	1710317-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-1	1710317-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-2	1710317-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-3	1710317-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-4	1710317-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-1	1710317-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-2	1710317-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-3	1710317-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-4	1710317-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-1	1710317-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-2	1710317-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-3	1710317-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-4	1710317-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-5-1	1710317-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-5-2	1710317-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH**Qualifications:****MS-09**

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

17I0317-12[WS-AOC-6-SO-6-2], B186332-MS1, B186332-MSD1

S-23

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:**o-Terphenyl**

B186332-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	97.2	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	109	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	63.6		50-150					9/20/17 3:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.4	30-150							
Decachlorobiphenyl [2]	91.6	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.2	30-150							
Decachlorobiphenyl [2]	90.3	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	108	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	107	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	83	14	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 1:51	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	67.9		50-150					9/19/17 1:51	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.2	30-150							
Decachlorobiphenyl [2]	78.9	30-150							
Tetrachloro-m-xylene [1]	85.5	30-150							
Tetrachloro-m-xylene [2]	87.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	102	30-150							
Decachlorobiphenyl [2]	94.9	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1260 [1]	0.18	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1268 [1]	0.15	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	102	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	104	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.2	30-150							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	99.7	30-150							
Tetrachloro-m-xylene [2]	98.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	56.4		50-150					9/20/17 3:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.0	30-150						9/19/17 19:23	
Decachlorobiphenyl [2]	124	30-150						9/19/17 19:23	
Tetrachloro-m-xylene [1]	84.3	30-150						9/19/17 19:23	
Tetrachloro-m-xylene [2]	89.1	30-150						9/19/17 19:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.1	30-150						9/19/17 19:40	
Decachlorobiphenyl [2]	107	30-150						9/19/17 19:40	
Tetrachloro-m-xylene [1]	87.5	30-150						9/19/17 19:40	
Tetrachloro-m-xylene [2]	90.4	30-150						9/19/17 19:40	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1254 [1]	0.14	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.7	30-150							
Decachlorobiphenyl [2]	88.7	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	95.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1268 [1]	0.13	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.4	30-150							
Decachlorobiphenyl [2]	94.6	30-150							
Tetrachloro-m-xylene [1]	95.9	30-150							
Tetrachloro-m-xylene [2]	97.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	460	57	mg/Kg dry	5	MS-09	CTDEP ETPH	9/15/17	9/20/17 3:47	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.2		50-150					9/20/17 3:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.2	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	95.8	30-150							
Tetrachloro-m-xylene [1]	96.2	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1254 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1260 [1]	0.78	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1268 [1]	2.7	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	148	30-150						9/20/17 8:58	
Decachlorobiphenyl [2]	125	30-150						9/20/17 8:58	
Tetrachloro-m-xylene [1]	115	30-150						9/20/17 8:58	
Tetrachloro-m-xylene [2]	110	30-150						9/20/17 8:58	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.7	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	96.8	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	430	56	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:05	SCS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
o-Terphenyl	82.4	50-150						9/20/17 4:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.5	30-150							
Decachlorobiphenyl [2]	95.9	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1268 [1]	0.13	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.3	30-150						9/19/17 22:51	
Decachlorobiphenyl [2]	96.6	30-150						9/19/17 22:51	
Tetrachloro-m-xylene [1]	84.6	30-150						9/19/17 22:51	
Tetrachloro-m-xylene [2]	90.9	30-150						9/19/17 22:51	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1260 [1]	0.14	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1268 [1]	0.16	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.6	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	96.7	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1260 [2]	0.14	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1268 [1]	0.13	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	99.7	30-150							
Decachlorobiphenyl [2]	96.4	30-150							
Tetrachloro-m-xylene [1]	99.3	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	57	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	70.1		50-150					9/20/17 4:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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
17I0317-01 [WS-AOC-15-SO-35-1]	B186332	30.1	1.00	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186332	30.1	1.00	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186332	30.0	1.00	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186332	30.0	1.00	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186332	30.0	1.00	09/15/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186207	09/14/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186207	09/14/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186207	09/14/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186207	09/14/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186207	09/14/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186207	09/14/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186207	09/14/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186207	09/14/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186207	09/14/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186207	09/14/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186207	09/14/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186207	09/14/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186207	09/14/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186207	09/14/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186207	09/14/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186207	09/14/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186207	09/14/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186207	09/14/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186207	09/14/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186360	10.8	10.0	09/15/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186360	10.0	10.0	09/15/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186360	10.5	10.0	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186360	10.8	10.0	09/15/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186360	10.4	10.0	09/15/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186360	10.6	10.0	09/15/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186360	10.2	10.0	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186360	10.0	10.0	09/15/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186360	10.1	10.0	09/15/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186360	10.2	10.0	09/15/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186360	10.5	10.0	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186360	10.5	10.0	09/15/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186360	10.5	10.0	09/15/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186360	10.3	10.0	09/15/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186360	10.6	10.0	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186360	10.2	10.0	09/15/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186360	10.7	10.0	09/15/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186360	10.2	10.0	09/15/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186360	10.0	10.0	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-20 [WS-AOC-6-SO-5-2]	B186360	10.4	10.0	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186360 - SW-846 3540C

Blank (B186360-BLK1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg wet	0.200		106	30-150			

LCS (B186360-BS1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Surrogate: Decachlorobiphenyl	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg wet	0.200		105	30-150			

LCS Dup (B186360-BSD1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	7.36	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.1	40-140	7.48	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	8.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.1	40-140	9.73	30	
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			

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 B186360 - SW-846 3540C										
Matrix Spike (B186360-MS1)	Source: 17I0317-08			Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.24	0.087	mg/Kg dry	0.219	ND	112	40-140			
Aroclor-1016 [2C]	0.24	0.087	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1260	0.19	0.087	mg/Kg dry	0.219	ND	84.6	40-140			
Aroclor-1260 [2C]	0.18	0.087	mg/Kg dry	0.219	ND	82.7	40-140			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg dry	0.219		95.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg dry	0.219		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.219		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.219		101	30-150			
Matrix Spike (B186360-MS2)	Source: 17I0317-09			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.20	0.088	mg/Kg dry	0.219	ND	90.3	40-140			
Aroclor-1016 [2C]	0.21	0.088	mg/Kg dry	0.219	ND	95.0	40-140			
Aroclor-1260	0.14	0.088	mg/Kg dry	0.219	ND	65.9	40-140			
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.219	ND	66.8	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg dry	0.219		77.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.286		mg/Kg dry	0.219		130	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg dry	0.219		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg dry	0.219		76.2	30-150			
Matrix Spike (B186360-MS3)	Source: 17I0317-12			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.26	0.088	mg/Kg dry	0.220	ND	116	40-140			
Aroclor-1016 [2C]	0.25	0.088	mg/Kg dry	0.220	ND	115	40-140			
Aroclor-1260	0.32	0.088	mg/Kg dry	0.220	0.12	91.4	40-140			
Aroclor-1260 [2C]	0.33	0.088	mg/Kg dry	0.220	0.10	104	40-140			
Surrogate: Decachlorobiphenyl	0.214		mg/Kg dry	0.220		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg dry	0.220		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.220		mg/Kg dry	0.220		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.220		103	30-150			
Matrix Spike (B186360-MS4)	Source: 17I0317-16			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.28	0.089	mg/Kg dry	0.223	ND	124	40-140			
Aroclor-1016 [2C]	0.29	0.089	mg/Kg dry	0.223	ND	128	40-140			
Aroclor-1260	0.20	0.089	mg/Kg dry	0.223	ND	89.2	40-140			
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.223	ND	86.3	40-140			
Surrogate: Decachlorobiphenyl	0.211		mg/Kg dry	0.223		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.220		mg/Kg dry	0.223		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.223		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.224		mg/Kg dry	0.223		100	30-150			
Matrix Spike Dup (B186360-MSD1)	Source: 17I0317-08			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.24	0.092	mg/Kg dry	0.231	ND	104	40-140	1.83	50	
Aroclor-1016 [2C]	0.22	0.092	mg/Kg dry	0.231	ND	96.3	40-140	5.77	50	
Aroclor-1260	0.18	0.092	mg/Kg dry	0.231	ND	79.6	40-140	0.637	50	
Aroclor-1260 [2C]	0.18	0.092	mg/Kg dry	0.231	ND	78.0	40-140	0.341	50	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg dry	0.231		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg dry	0.231		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg dry	0.231		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg dry	0.231		92.3	30-150			

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 B186360 - SW-846 3540C

Matrix Spike Dup (B186360-MSD2)		Source: 17I0317-09		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.22	0.088	mg/Kg dry	0.221	ND	97.2	40-140	8.36	50	
Aroclor-1016 [2C]	0.20	0.088	mg/Kg dry	0.221	ND	90.8	40-140	3.56	50	
Aroclor-1260	0.15	0.088	mg/Kg dry	0.221	ND	66.6	40-140	2.05	50	
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.221	ND	67.0	40-140	1.36	50	
Surrogate: Decachlorobiphenyl	0.174		mg/Kg dry	0.221		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.258		mg/Kg dry	0.221		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg dry	0.221		73.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg dry	0.221		79.3	30-150			

Matrix Spike Dup (B186360-MSD3)		Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.27	0.089	mg/Kg dry	0.223	ND	119	40-140	3.42	50	
Aroclor-1016 [2C]	0.26	0.089	mg/Kg dry	0.223	ND	116	40-140	1.70	50	
Aroclor-1260	0.33	0.089	mg/Kg dry	0.223	0.12	94.1	40-140	2.44	50	
Aroclor-1260 [2C]	0.33	0.089	mg/Kg dry	0.223	0.10	104	40-140	0.482	50	
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.223		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg dry	0.223		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.227		mg/Kg dry	0.223		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.235		mg/Kg dry	0.223		106	30-150			

Matrix Spike Dup (B186360-MSD4)		Source: 17I0317-16		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.27	0.089	mg/Kg dry	0.222	ND	120	40-140	4.36	50	
Aroclor-1016 [2C]	0.25	0.089	mg/Kg dry	0.222	ND	114	40-140	12.0	50	
Aroclor-1260	0.20	0.089	mg/Kg dry	0.222	ND	87.9	40-140	1.97	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.222	ND	87.6	40-140	0.912	50	
Surrogate: Decachlorobiphenyl	0.215		mg/Kg dry	0.222		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg dry	0.222		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg dry	0.222		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.222		102	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.07		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	3.55		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	3.40		mg/Kg wet	3.33		102	50-150			
Matrix Spike (B186332-MS1)				Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17				
CT ETPH	332	57	mg/Kg dry	37.7	458	-333 *	50-150			MS-09
Surrogate: o-Terphenyl	2.04		mg/Kg dry	3.77		54.2	50-150			
Matrix Spike Dup (B186332-MSD1)				Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17				
CT ETPH	296	57	mg/Kg dry	37.8	458	-428 *	50-150	11.5	30	MS-09
Surrogate: o-Terphenyl	1.69		mg/Kg dry	3.78		44.6 *	50-150			S-23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186207 - % Solids										
Duplicate (B186207-DUP1)	Source: 17I0317-08			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	86.6		% Wt		86.1			0.579	20	
Duplicate (B186207-DUP2)	Source: 17I0317-09			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	87.4		% Wt		88.8			1.59	20	
Duplicate (B186207-DUP3)	Source: 17I0317-12			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	88.9		% Wt		88.1			0.904	20	
Duplicate (B186207-DUP4)	Source: 17I0317-16			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	87.4		% Wt		88.6			1.36	20	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-11-1

Lab Sample ID: 17I0317-07 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.14	25.0
Aroclor-1268	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-6-1**

Lab Sample ID: 17I0317-11 Date(s) Analyzed: 09/19/2017 09/19/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-6-2

Lab Sample ID: 17I0317-12 Date(s) Analyzed: 09/19/2017 09/19/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.10	18.2
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	15.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-12-1

Lab Sample ID: 17I0317-15 Date(s) Analyzed: 09/20/2017 09/20/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	0.68	13.7
Aroclor-1268	1	0.000	-0.030	0.030	2.7	
	2	0.000	-0.030	0.030	2.4	11.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-12-4**Lab Sample ID: 17I0317-18 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-1

Lab Sample ID: 17I0317-19 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-2

Lab Sample ID: 17I0317-20 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rocky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotiak

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	5-day ☐
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #: _____	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC-15-SD-35-1	9/18/17	0930		X	S	U
2	WS-AOC-15-SD-35-2	9/18/17	0939		X	S	U
3	WS-AOC-15-SD-35-3	9/18/17	0940		X	S	U
4	WS-AOC-15-SD-32-1	9/18/17	0930		X	S	U
5	WS-AOC-15-SD-32-2	9/18/17	0931		X	S	U
6	WS-AOC-15-SD-32-3	9/18/17	0932		X	S	U
7	WS-AOC-6-SD-11-1	9/18/17	1023		X	S	U
8	WS-AOC-6-SD-11-2	9/18/17	1024		X	S	U
9	WS-AOC-6-SD-11-3	9/18/17	1025		X	S	U
10	WS-AOC-6-SD-11-4	9/18/17	1026		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

222m to MS/MSO for WS-AOC-6-SD-11-2 and WS-AOC-6-SD-11-3 for PCBs.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
 O = Other (please define)

2 Preservation Codes:
 1 = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____


 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotak

Requested Turnaround Time

7-Day ☒ 10-Day ☐Other: 5-day ☐

Rush Approval Required

1-Day ☐ 3-Day ☐2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☒ EXCEL ☒Other: ☐Enhanced Data Package Required: ☐

Email To: beelerm@wseinc.com

Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-POL-6-30-6-1	9/8/17	1020		X	S	2
12	WS-POL-6-30-6-2		1021				
13	WS-POL-6-30-6-3		1022				
14	WS-POL-6-30-6-4		1023				
15	WS-POL-6-30-12-1		1040				
16	WS-POL-6-30-12-2		1041				
17	WS-POL-6-30-12-3		1042				
18	WS-POL-6-30-12-4		1043				
19	WS-POL-6-30-5-1		1045				
20	WS-POL-6-30-5-2		1046				

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

Please hold excess volumes for possible SPLP analyses.

Please do MS/MSD for WS-POL-6-30-6-2 for PCBs & EPH. Please do MS/MSD for WS-POL-6-30-12-2 for PCBs.

Relinquished by: (signature)

Date/Time: 9/8/17 1520

Received by: (signature)

Date/Time: 9/8/17 1520

Relinquished by: (signature)

Date/Time: 9/8/17 1540

Received by: (signature)

Date/Time: 9/8/17 1545

Relinquished by: (signature)

Date/Time: 9/8/17 17:06

Received by: (signature)

Date/Time: 9/8/17 1706

Program Information

☐ MCP Analytical Certification Form Required☒ RCP Analysis Certification Form Required☐ MA State DW Form Required

PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? 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
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919034.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples

17I0380-07
 17I0380-08
 17I0408-01
 17I0408-02
 17I0408-03
 17I0408-04
 17I0408-05
 17I0408-06
 17I0408-07
 17I0408-08
 17I0539-06
 17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919080.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples

17I0719-04
 17I0719-07
 17I0719-04
 17I0719-08@20X
 17I0719-09@10X
 17I0241-16@5X
 17I0244-11@10X
 17I0317-01@5X
 17I0317-08@5X
 17I0317-12@5X
 17I0317-16@5X
 17I0317-20@5X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0317

Laboratory Sample ID(s):

17I0317-01 thru 17I0317-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/20/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 19, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0175

Enclosed are results of analyses for samples received by the laboratory on September 6, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17I0175-01	5
17I0175-02	8
17I0175-03	10
17I0175-04	13
17I0175-05	15
17I0175-06	17
17I0175-07	19
17I0175-08	21
17I0175-09	24
17I0175-10	26
Sample Preparation Information	28
QC Data	29
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	29
B185991	29
Petroleum Hydrocarbons Analyses	30
B186051	30
Flag/Qualifier Summary	31
Certifications	32
Chain of Custody/Sample Receipt	33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710175

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-2-2	1710175-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-2-3	1710175-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-7-1	1710175-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-7-2	1710175-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-7-3	1710175-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-52-1	1710175-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-52-2	1710175-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-45-1	1710175-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-SO-45-2	1710175-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-45-3	1710175-10	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

CT ETPH

B186051-BS1

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2

Sampled: 9/6/2017 13:23

Sample ID: 1710175-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.3	30-150						9/18/17 16:55	
Decachlorobiphenyl [2]	87.8	30-150						9/18/17 16:55	
Tetrachloro-m-xylene [1]	80.4	30-150						9/18/17 16:55	
Tetrachloro-m-xylene [2]	90.9	30-150						9/18/17 16:55	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2

Sampled: 9/6/2017 13:23

Sample ID: 1710175-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	68	11	mg/Kg dry	1		CTDEP ETPH	9/12/17	9/13/17 18:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	52.8		50-150					9/13/17 18:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2

Sampled: 9/6/2017 13:23

Sample ID: 1710175-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-3

Sampled: 9/6/2017 13:24

Sample ID: 1710175-02

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	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.1	30-150						9/18/17 17:08	
Decachlorobiphenyl [2]	89.1	30-150						9/18/17 17:08	
Tetrachloro-m-xylene [1]	83.5	30-150						9/18/17 17:08	
Tetrachloro-m-xylene [2]	95.7	30-150						9/18/17 17:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-3

Sampled: 9/6/2017 13:24

Sample ID: 1710175-02

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	90.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1

Sampled: 9/6/2017 13:33

Sample ID: 1710175-03

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	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.1	30-150						9/18/17 17:20	
Decachlorobiphenyl [2]	87.0	30-150						9/18/17 17:20	
Tetrachloro-m-xylene [1]	90.6	30-150						9/18/17 17:20	
Tetrachloro-m-xylene [2]	102	30-150						9/18/17 17:20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1

Sampled: 9/6/2017 13:33

Sample ID: 1710175-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	100	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/13/17 18:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	68.6		50-150					9/13/17 18:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1

Sampled: 9/6/2017 13:33

Sample ID: 1710175-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.7		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-2

Sampled: 9/6/2017 13:34

Sample ID: 1710175-04

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	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.3	30-150						9/18/17 17:33	
Decachlorobiphenyl [2]	91.9	30-150						9/18/17 17:33	
Tetrachloro-m-xylene [1]	78.9	30-150						9/18/17 17:33	
Tetrachloro-m-xylene [2]	89.5	30-150						9/18/17 17:33	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-2

Sampled: 9/6/2017 13:34

Sample ID: 1710175-04

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	92.8		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-3

Sampled: 9/6/2017 13:35

Sample ID: 1710175-05

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	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.9	30-150							
Decachlorobiphenyl [2]	85.0	30-150							
Tetrachloro-m-xylene [1]	90.6	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-3

Sampled: 9/6/2017 13:35

Sample ID: 1710175-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-1

Sampled: 9/5/2017 15:18

Sample ID: 1710175-06

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	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.4	30-150							
Decachlorobiphenyl [2]	63.6	30-150							
Tetrachloro-m-xylene [1]	77.5	30-150							
Tetrachloro-m-xylene [2]	84.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-1

Sampled: 9/5/2017 15:18

Sample ID: 1710175-06

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	94.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-2

Sampled: 9/5/2017 15:19

Sample ID: 1710175-07

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	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	60.1	30-150							
Tetrachloro-m-xylene [1]	88.2	30-150							
Tetrachloro-m-xylene [2]	98.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-2

Sampled: 9/5/2017 15:19

Sample ID: 1710175-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1

Sampled: 9/5/2017 15:26

Sample ID: 1710175-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150							
Decachlorobiphenyl [2]	63.8	30-150							
Tetrachloro-m-xylene [1]	86.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1

Sampled: 9/5/2017 15:26

Sample ID: 1710175-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	9/12/17	9/14/17 10:12	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	56.1		50-150					9/14/17 10:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1

Sampled: 9/5/2017 15:26

Sample ID: 1710175-08

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	89.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-2

Sampled: 9/5/2017 15:27

Sample ID: 1710175-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.2	30-150							
Decachlorobiphenyl [2]	70.3	30-150							
Tetrachloro-m-xylene [1]	86.6	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-2

Sampled: 9/5/2017 15:27

Sample ID: 1710175-09

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	89.3		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-3

Sampled: 9/5/2017 15:34

Sample ID: 1710175-10

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	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.9	30-150						9/18/17 18:49	
Decachlorobiphenyl [2]	79.5	30-150						9/18/17 18:49	
Tetrachloro-m-xylene [1]	88.5	30-150						9/18/17 18:49	
Tetrachloro-m-xylene [2]	101	30-150						9/18/17 18:49	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-3

Sampled: 9/5/2017 15:34

Sample ID: 1710175-10

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	66.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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
17I0175-01 [WS-AOC-15-SO-2-2]	B186051	30.0	1.00	09/12/17
17I0175-03 [WS-AOC-15-SO-2-1]	B186051	30.0	1.00	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B186051	30.0	1.00	09/12/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0175-01 [WS-AOC-15-SO-2-2]	B185999	09/12/17
17I0175-02 [WS-AOC-15-SO-2-3]	B185999	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B185999	09/12/17
17I0175-04 [WS-AOC-15-SO-7-2]	B185999	09/12/17
17I0175-05 [WS-AOC-15-SO-7-3]	B185999	09/12/17
17I0175-06 [WS-AOC-12E-SO-52-1]	B185999	09/12/17
17I0175-07 [WS-AOC-12E-SO-52-2]	B185999	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B185999	09/12/17
17I0175-09 [WS-AOC-12E-SO-45-2]	B185999	09/12/17
17I0175-10 [WS-AOC-12E-SO-45-3]	B185999	09/12/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0175-01 [WS-AOC-15-SO-2-2]	B185991	10.0	10.0	09/12/17
17I0175-02 [WS-AOC-15-SO-2-3]	B185991	10.0	10.0	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B185991	10.0	10.0	09/12/17
17I0175-04 [WS-AOC-15-SO-7-2]	B185991	10.0	10.0	09/12/17
17I0175-05 [WS-AOC-15-SO-7-3]	B185991	10.0	10.0	09/12/17
17I0175-06 [WS-AOC-12E-SO-52-1]	B185991	10.0	10.0	09/12/17
17I0175-07 [WS-AOC-12E-SO-52-2]	B185991	10.0	10.0	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B185991	10.0	10.0	09/12/17
17I0175-09 [WS-AOC-12E-SO-45-2]	B185991	10.0	10.0	09/12/17
17I0175-10 [WS-AOC-12E-SO-45-3]	B185991	10.0	10.0	09/12/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185991 - SW-846 3540C
Blank (B185991-BLK1)

Prepared: 09/12/17 Analyzed: 09/18/17

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	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			

LCS (B185991-BS1)

Prepared: 09/12/17 Analyzed: 09/18/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.183		mg/Kg wet	0.200		91.4	30-150			

LCS Dup (B185991-BS1)

Prepared: 09/12/17 Analyzed: 09/18/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	4.07	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	3.01	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	3.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	1.61	30	
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		83.0	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186051 - SW-846 3546										
Blank (B186051-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.76		mg/Kg wet	3.33		82.8	50-150			
LCS (B186051-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	19.8	10	mg/Kg wet	33.3		59.3 *	60-120			L-07
Surrogate: o-Terphenyl	2.36		mg/Kg wet	3.33		70.8	50-150			
LCS Dup (B186051-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	22.6	10	mg/Kg wet	33.3		67.8	60-120	13.3	30	
Surrogate: o-Terphenyl	2.53		mg/Kg wet	3.33		75.8	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1710175



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotinak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-ADC-1532-2	9/16/17	1323		X	S	V
2	WS-ADC-1532-3	9/16/17	1324		X	S	V
3	WS-ADC-1537-1	9/16/17	1333		X	S	V
4	WS-ADC-1537-2	9/16/17	1334		X	S	V
5	WS-ADC-1537-3	9/16/17	1335		X	S	V
6	WS-ADC-12E-50-52-1	9/5/17	1513		X	S	V
7	WS-ADC-12E-50-52-2	9/5/17	1519		X	S	V
8	WS-ADC-12E-50-45-1		1526		X	S	V
9	WS-ADC-12E-20-45-2		1527		X	S	V
10	WS-ADC-12E-50-45-3		1534		X	S	V

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: 9/16/17 1430
Received by: (signature)	Date/Time: 9/16/17 1430
Relinquished by: (signature)	Date/Time: 9/16/17 1630
Received by: (signature)	Date/Time: 9/16/17 1630
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

1	Requested Turnaround Time	7-Day ☒ 10-Day ☐	Other: ☐
2	Push Approval Required	1-Day ☐ 3-Day ☐	2-Day ☐ 4-Day ☐
3	Data Delivery	Format: PDF ☒ EXCEL ☒	Other: ☐
4	Enhanced Data Package Required:	☐	
5	Email To:	beelerm@wseinc.com	
6	Fax To #:		

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

ANALYSIS REQUESTED

PCBs Sorbitol

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client Weston + Sampson
Received By JM Date 9/6/17 Time 1630

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.1
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tapered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A
Are there Rushes? N/A
Are there Short Holds? N/A
Is there enough Volume? T
Is there Headspace where applicable? N/A
Proper Media/Containers Used? T
Were trip blanks received? N/A
Do all samples have the proper pH? N/A

Who was notified?
Who was notified?
Who was notified?

MS/MSD? N/A
Is splitting samples required? N/A
On COC? N/A

Acid Base

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz <u>Amb</u> Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

D:\HPCHEM\1\DATA\A091317.SEC\A0913007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/13/17
 Data File Name A0913007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	588071	606245	-3
c - 10	1.63	595033	606245	-2
c - 12	2.35	611957	606245	1
c - 14	3.01	622160	606245	3
c - 16	3.61	634325	606245	5
c - 18	4.23	624551	606245	3
o-Terphenyl	4.51	692611	606245	
c - 20	4.83	629691	606245	4
c - 22	5.34	636645	606245	5
c - 24	5.77	591488	606245	-2
c - 26	6.16	620737	606245	2
c - 28	6.52	609671	606245	1
c - 30	6.85	598868	606245	-1
c - 32	7.16	577682	606245	-5
c - 34	7.46	576944	606245	-5
c - 36	7.77	575858	606245	-5

* One compound allowed %D <= 50%

Samples

17I0175-01
 17I0175-03@10X
 17I0177-17@10X

D:\HPCHEM\1\DATA\A091317\A0913108.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
 Data File Name A0913108.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	553300	590564	-6
c - 10	1.64	561513	590564	-5
c - 12	2.37	575104	590564	-3
c - 14	3.04	585879	590564	-1
c - 16	3.65	600478	590564	2
c - 18	4.29	597328	590564	1
o-Terphenyl	4.57	669326	590564	
c - 20	4.89	609508	590564	3
c - 22	5.40	625539	590564	6
c - 24	5.83	589170	590564	0
c - 26	6.23	623817	590564	6
c - 28	6.59	615149	590564	4
c - 30	6.92	604930	590564	2
c - 32	7.23	579634	590564	-2
c - 34	7.53	572069	590564	-3
c - 36	7.87	565044	590564	-4

* One compound allowed %D <= 50%

Samples

1710175-08
 1710248-02



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0175

Laboratory Sample ID(s):

17I0175-01 thru 17I0175-10

Sample Date(s):

09/05/2017,

09/06/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/19/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 19, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0177

Enclosed are results of analyses for samples received by the laboratory on September 6, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0177-01	7
17I0177-02	9
17I0177-03	11
17I0177-04	13
17I0177-05	16
17I0177-06	19
17I0177-07	21
17I0177-08	23
17I0177-09	26
17I0177-10	28
17I0177-11	31
17I0177-12	33
17I0177-13	35
17I0177-14	37
17I0177-15	39
17I0177-16	41
17I0177-17	43
17I0177-18	46
17I0177-19	48
17I0177-20	51
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B185967	55
Petroleum Hydrocarbons Analyses	57
B186051	57
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	58
B185740	58
Dual Column RPD Report	59
Flag/Qualifier Summary	60
Certifications	61
Chain of Custody/Sample Receipt	62

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710177

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-12E-S0-49-1	1710177-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-49-2	1710177-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-49-3	1710177-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-37-1	1710177-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-37-2	1710177-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-37-3	1710177-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-51-1	1710177-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-51-2	1710177-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-51-3	1710177-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-39-1	1710177-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-39-2	1710177-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-39-3	1710177-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-41-1	1710177-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-41-2	1710177-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-41-3	1710177-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-48-1	1710177-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-48-2	1710177-17	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-48-3	1710177-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710177

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-12E-S0-DUP-48	1710177-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-S0-2-1	1710177-20	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH**Qualifications:****L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**CT ETPH**

B186051-BS1

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**

17I0177-04[WS-AOC-12E-S0-37-1], 17I0177-10[WS-AOC-12E-S0-39-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-1

Sampled: 9/6/2017 09:29

Sample ID: 1710177-01

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	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.7	30-150						9/18/17 11:12	
Decachlorobiphenyl [2]	101	30-150						9/18/17 11:12	
Tetrachloro-m-xylene [1]	98.6	30-150						9/18/17 11:12	
Tetrachloro-m-xylene [2]	97.7	30-150						9/18/17 11:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-1

Sampled: 9/6/2017 09:29

Sample ID: 1710177-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-2

Sampled: 9/6/2017 09:30

Sample ID: 1710177-02

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.8	30-150							
Decachlorobiphenyl [2]	92.7	30-150							
Tetrachloro-m-xylene [1]	91.7	30-150							
Tetrachloro-m-xylene [2]	90.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-2

Sampled: 9/6/2017 09:30

Sample ID: 1710177-02

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	89.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-3

Sampled: 9/6/2017 09:31

Sample ID: 1710177-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.9	30-150						9/18/17 11:37	
Decachlorobiphenyl [2]	115	30-150						9/18/17 11:37	
Tetrachloro-m-xylene [1]	86.4	30-150						9/18/17 11:37	
Tetrachloro-m-xylene [2]	83.6	30-150						9/18/17 11:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-3

Sampled: 9/6/2017 09:31

Sample ID: 1710177-03

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	70.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1

Sampled: 9/6/2017 09:53

Sample ID: 1710177-04

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	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.5	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	95.6	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1

Sampled: 9/6/2017 09:53

Sample ID: 1710177-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	230	mg/Kg dry	20		CTDEP ETPH	9/12/17	9/14/17 20:03	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/14/17 20:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1

Sampled: 9/6/2017 09:53

Sample ID: 1710177-04

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	86.6		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2

Sampled: 9/6/2017 09:54

Sample ID: 1710177-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.8	30-150							
Decachlorobiphenyl [2]	95.7	30-150							
Tetrachloro-m-xylene [1]	88.8	30-150							
Tetrachloro-m-xylene [2]	85.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2

Sampled: 9/6/2017 09:54

Sample ID: 1710177-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	150	62	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/14/17 18:51	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	58.2		50-150					9/14/17 18:51	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2

Sampled: 9/6/2017 09:54

Sample ID: 1710177-05

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	80.1		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-3

Sampled: 9/6/2017 10:15

Sample ID: 1710177-06

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	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.8	30-150							
Decachlorobiphenyl [2]	94.6	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	96.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-3

Sampled: 9/6/2017 10:15

Sample ID: 1710177-06

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	83.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-1

Sampled: 9/6/2017 10:49

Sample ID: 1710177-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.3	30-150						9/18/17 12:25	
Decachlorobiphenyl [2]	96.2	30-150						9/18/17 12:25	
Tetrachloro-m-xylene [1]	99.8	30-150						9/18/17 12:25	
Tetrachloro-m-xylene [2]	98.8	30-150						9/18/17 12:25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-1

Sampled: 9/6/2017 10:49

Sample ID: 1710177-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2

Sampled: 9/6/2017 10:50

Sample ID: 1710177-08

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	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.3	30-150						9/18/17 12:37	
Decachlorobiphenyl [2]	91.6	30-150						9/18/17 12:37	
Tetrachloro-m-xylene [1]	92.9	30-150						9/18/17 12:37	
Tetrachloro-m-xylene [2]	90.1	30-150						9/18/17 12:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2

Sampled: 9/6/2017 10:50

Sample ID: 1710177-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	59	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/14/17 19:09	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	59.3		50-150					9/14/17 19:09	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2

Sampled: 9/6/2017 10:50

Sample ID: 1710177-08

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	84.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-3

Sampled: 9/6/2017 10:51

Sample ID: 1710177-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.5	30-150						9/18/17 12:50	
Decachlorobiphenyl [2]	98.5	30-150						9/18/17 12:50	
Tetrachloro-m-xylene [1]	93.9	30-150						9/18/17 12:50	
Tetrachloro-m-xylene [2]	89.1	30-150						9/18/17 12:50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-3

Sampled: 9/6/2017 10:51

Sample ID: 1710177-09

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	74.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1

Sampled: 9/6/2017 10:45

Sample ID: 1710177-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.6	30-150						9/18/17 13:48	
Decachlorobiphenyl [2]	91.3	30-150						9/18/17 13:48	
Tetrachloro-m-xylene [1]	94.0	30-150						9/18/17 13:48	
Tetrachloro-m-xylene [2]	93.5	30-150						9/18/17 13:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1

Sampled: 9/6/2017 10:45

Sample ID: 1710177-10

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	690	210	mg/Kg dry	20		CTDEP ETPH	9/12/17	9/14/17 19:27	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/14/17 19:27		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1

Sampled: 9/6/2017 10:45

Sample ID: 1710177-10

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	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-2

Sampled: 9/6/2017 10:46

Sample ID: 1710177-11

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.3	30-150							
Decachlorobiphenyl [2]	85.4	30-150							
Tetrachloro-m-xylene [1]	90.6	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-2

Sampled: 9/6/2017 10:46

Sample ID: 1710177-11

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	89.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-3

Sampled: 9/6/2017 10:47

Sample ID: 1710177-12

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	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.1	30-150						9/18/17 14:13	
Decachlorobiphenyl [2]	102	30-150						9/18/17 14:13	
Tetrachloro-m-xylene [1]	83.8	30-150						9/18/17 14:13	
Tetrachloro-m-xylene [2]	82.3	30-150						9/18/17 14:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-3

Sampled: 9/6/2017 10:47

Sample ID: 1710177-12

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	73.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-1

Sampled: 9/6/2017 11:07

Sample ID: 1710177-13

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.4	30-150						9/18/17 14:25	
Decachlorobiphenyl [2]	85.5	30-150						9/18/17 14:25	
Tetrachloro-m-xylene [1]	87.4	30-150						9/18/17 14:25	
Tetrachloro-m-xylene [2]	88.6	30-150						9/18/17 14:25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-1

Sampled: 9/6/2017 11:07

Sample ID: 1710177-13

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	88.8		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-2

Sampled: 9/6/2017 11:08

Sample ID: 1710177-14

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.7	30-150						9/18/17 14:37	
Decachlorobiphenyl [2]	71.5	30-150						9/18/17 14:37	
Tetrachloro-m-xylene [1]	80.0	30-150						9/18/17 14:37	
Tetrachloro-m-xylene [2]	82.8	30-150						9/18/17 14:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-2

Sampled: 9/6/2017 11:08

Sample ID: 1710177-14

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	88.9		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-3

Sampled: 9/6/2017 11:09

Sample ID: 1710177-15

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	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.0	30-150							
Decachlorobiphenyl [2]	79.7	30-150							
Tetrachloro-m-xylene [1]	91.7	30-150							
Tetrachloro-m-xylene [2]	89.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-3

Sampled: 9/6/2017 11:09

Sample ID: 1710177-15

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	78.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-1

Sampled: 9/6/2017 11:00

Sample ID: 1710177-16

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	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.4	30-150							
Decachlorobiphenyl [2]	90.3	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-1

Sampled: 9/6/2017 11:00

Sample ID: 1710177-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2

Sampled: 9/6/2017 11:01

Sample ID: 1710177-17

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	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.9	30-150						9/18/17 15:14	
Decachlorobiphenyl [2]	97.4	30-150						9/18/17 15:14	
Tetrachloro-m-xylene [1]	97.9	30-150						9/18/17 15:14	
Tetrachloro-m-xylene [2]	96.3	30-150						9/18/17 15:14	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2

Sampled: 9/6/2017 11:01

Sample ID: 1710177-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	360	120	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/13/17 19:52	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	57.3		50-150					9/13/17 19:52	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2

Sampled: 9/6/2017 11:01

Sample ID: 1710177-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-3

Sampled: 9/6/2017 11:02

Sample ID: 1710177-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.3	30-150							
Decachlorobiphenyl [2]	86.8	30-150							
Tetrachloro-m-xylene [1]	92.6	30-150							
Tetrachloro-m-xylene [2]	89.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-3

Sampled: 9/6/2017 11:02

Sample ID: 1710177-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48

Sampled: 9/6/2017 00:00

Sample ID: 1710177-19

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	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.0	30-150						9/18/17 15:38	
Decachlorobiphenyl [2]	77.7	30-150						9/18/17 15:38	
Tetrachloro-m-xylene [1]	85.8	30-150						9/18/17 15:38	
Tetrachloro-m-xylene [2]	82.1	30-150						9/18/17 15:38	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48

Sampled: 9/6/2017 00:00

Sample ID: 1710177-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	120	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/14/17 19:45	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	67.4		50-150					9/14/17 19:45	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48

Sampled: 9/6/2017 00:00

Sample ID: 1710177-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-S0-2-1

Sampled: 9/6/2017 13:22

Sample ID: 1710177-20

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	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1268 [2]	0.15	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.5	30-150							
Decachlorobiphenyl [2]	92.5	30-150							
Tetrachloro-m-xylene [1]	90.0	30-150							
Tetrachloro-m-xylene [2]	92.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-S0-2-1

Sampled: 9/6/2017 13:22

Sample ID: 1710177-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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
17I0177-04 [WS-AOC-12E-S0-37-1]	B186051	30.0	1.00	09/12/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B186051	30.0	1.00	09/12/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B186051	30.0	1.00	09/12/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B186051	30.0	1.00	09/12/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B186051	30.0	1.00	09/12/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B186051	30.0	1.00	09/12/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0177-01 [WS-AOC-12E-S0-49-1]	B185740	09/07/17
17I0177-02 [WS-AOC-12E-S0-49-2]	B185740	09/07/17
17I0177-03 [WS-AOC-12E-S0-49-3]	B185740	09/07/17
17I0177-04 [WS-AOC-12E-S0-37-1]	B185740	09/07/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B185740	09/07/17
17I0177-06 [WS-AOC-12E-S0-37-3]	B185740	09/07/17
17I0177-07 [WS-AOC-12E-S0-51-1]	B185740	09/07/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B185740	09/07/17
17I0177-09 [WS-AOC-12E-S0-51-3]	B185740	09/07/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B185740	09/07/17
17I0177-11 [WS-AOC-12E-S0-39-2]	B185740	09/07/17
17I0177-12 [WS-AOC-12E-S0-39-3]	B185740	09/07/17
17I0177-13 [WS-AOC-12E-S0-41-1]	B185740	09/07/17
17I0177-14 [WS-AOC-12E-S0-41-2]	B185740	09/07/17
17I0177-15 [WS-AOC-12E-S0-41-3]	B185740	09/07/17
17I0177-16 [WS-AOC-12E-S0-48-1]	B185740	09/07/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B185740	09/07/17
17I0177-18 [WS-AOC-12E-S0-48-3]	B185740	09/07/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B185740	09/07/17
17I0177-20 [WS-AOC-15-S0-2-1]	B185740	09/07/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0177-01 [WS-AOC-12E-S0-49-1]	B185967	10.0	10.0	09/11/17
17I0177-02 [WS-AOC-12E-S0-49-2]	B185967	10.0	10.0	09/11/17
17I0177-03 [WS-AOC-12E-S0-49-3]	B185967	10.0	10.0	09/11/17
17I0177-04 [WS-AOC-12E-S0-37-1]	B185967	10.0	10.0	09/11/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B185967	10.0	10.0	09/11/17
17I0177-06 [WS-AOC-12E-S0-37-3]	B185967	10.0	10.0	09/11/17
17I0177-07 [WS-AOC-12E-S0-51-1]	B185967	10.0	10.0	09/11/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B185967	10.0	10.0	09/11/17
17I0177-09 [WS-AOC-12E-S0-51-3]	B185967	10.0	10.0	09/11/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B185967	10.0	10.0	09/11/17
17I0177-11 [WS-AOC-12E-S0-39-2]	B185967	10.0	10.0	09/11/17
17I0177-12 [WS-AOC-12E-S0-39-3]	B185967	10.0	10.0	09/11/17
17I0177-13 [WS-AOC-12E-S0-41-1]	B185967	10.0	10.0	09/11/17
17I0177-14 [WS-AOC-12E-S0-41-2]	B185967	10.0	10.0	09/11/17
17I0177-15 [WS-AOC-12E-S0-41-3]	B185967	10.0	10.0	09/11/17
17I0177-16 [WS-AOC-12E-S0-48-1]	B185967	10.0	10.0	09/11/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B185967	10.0	10.0	09/11/17
17I0177-18 [WS-AOC-12E-S0-48-3]	B185967	10.0	10.0	09/11/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B185967	10.0	10.0	09/11/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0177-20 [WS-AOC-15-S0-2-1]	B185967	10.0	10.0	09/11/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185967 - SW-846 3540C										
Blank (B185967-BLK1)										
Prepared: 09/11/17 Analyzed: 09/18/17										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.3	30-150			
LCS (B185967-BS1)										
Prepared: 09/11/17 Analyzed: 09/18/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			
LCS Dup (B185967-BSD1)										
Prepared: 09/11/17 Analyzed: 09/18/17										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.4	40-140	0.207	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.1	40-140	1.96	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.49	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.79	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		88.2	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185967 - SW-846 3540C
Matrix Spike (B185967-MS1)
Source: 17I0177-12

Prepared: 09/11/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.11	mg/Kg dry	0.273	ND	71.0	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.273	ND	81.4	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.273	ND	55.7	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.273	ND	63.1	40-140			
Surrogate: Decachlorobiphenyl	0.192		mg/Kg dry	0.273		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.398		mg/Kg dry	0.273		146	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg dry	0.273		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.273		82.9	30-150			

Matrix Spike Dup (B185967-MSD1)
Source: 17I0177-12

Prepared: 09/11/17 Analyzed: 09/18/17

Aroclor-1016	0.17	0.11	mg/Kg dry	0.273	ND	61.9	40-140	13.6	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.273	ND	77.5	40-140	4.95	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.273	ND	56.7	40-140	1.85	50	
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.273	ND	65.1	40-140	3.16	50	
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.273		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.269		mg/Kg dry	0.273		98.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.226		mg/Kg dry	0.273		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.227		mg/Kg dry	0.273		83.3	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186051 - SW-846 3546										
Blank (B186051-BLK1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.76		mg/Kg wet	3.33		82.8	50-150			
LCS (B186051-BS1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
CT ETPH	19.8	10	mg/Kg wet	33.3		59.3 *	60-120			L-07
Surrogate: o-Terphenyl	2.36		mg/Kg wet	3.33		70.8	50-150			
LCS Dup (B186051-BSD1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
CT ETPH	22.6	10	mg/Kg wet	33.3		67.8	60-120	13.3	30	
Surrogate: o-Terphenyl	2.53		mg/Kg wet	3.33		75.8	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B185740 - % Solids
Duplicate (B185740-DUP1)
Source: 1710177-11

Prepared: 09/07/17 Analyzed: 09/08/17

% Solids	90.7		% Wt		89.2			1.67	20	
----------	------	--	------	--	------	--	--	------	----	--

Duplicate (B185740-DUP2)
Source: 1710177-12

Prepared: 09/07/17 Analyzed: 09/08/17

% Solids	76.7		% Wt		73.3			4.53	20	
----------	------	--	------	--	------	--	--	------	----	--

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-15-S0-2-1***SW-846 8082A*

Lab Sample ID: 17I0177-20 Date(s) Analyzed: 09/18/2017 09/18/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.15	14.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

CHAIN OF CUSTODY RECORD
1710177
39 Spruce Street
East Longmeadow, MA 01028

con-test[®]
ANALYTICAL LABORATORY

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky Hill, CT
Phone: 860 513-1473
Project Name: English Station
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 2170495
Project Manager: Malcolm Beeler
Con-Test Bid:
Invoice Recipient: Malcolm Beeler (Weston & Sampson)
Sampled By: Chris Berthiaume/Will Sirotiak

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Other: 5-day ☐
Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADC-12E3839-2	9/6/17	1040		X	S	U
12	WS-ADC-12E3839-3	9/6/17	1047		X	S	U
13	WS-ADC-12E3841-1	9/6/17	1107		X	S	U
14	WS-ADC-12E3841-2	9/6/17	1103		X	S	U
15	WS-ADC-12E3841-3	9/6/17	1109		X	S	U
16	WS-ADC-12E3848-1	9/6/17	1100		X	S	U
17	WS-ADC-12E3848-2	9/6/17	1101		X	S	U
18	WS-ADC-12E3848-3	9/6/17	1102		X	S	U
19	WS-ADC-12E3848-DUP 43	9/6/17	-		X	S	U
20	WS-ADC-15382-1	9/6/17	1322		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.
For WS-ADC-12E-39-3 please do MS/MSD

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Date/Time: 9/6/17 1830
Received by: (signature) Date/Time: 9/6/17 1430
Relinquished by: (signature) Date/Time: 9/6/17 1630
Received by: (signature) Date/Time: 9/6/17 1630
Relinquished by: (signature) Date/Time: 9/6/17 1630
Received by: (signature) Date/Time: 9/6/17 1630

Detection Limit Requirements
MA
GT
Other:
RES DEC

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
PWSID #

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM

Date 9/6/17

Time 1630

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

Were samples within
Temperature? 2-6°C T

By Blank #

Actual Temp -

Was Custody Seal Intact? N/A

Were Samples Tampered with? N/A

Was COC Relinquished? T

Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T

Were samples received within holding time? T

Did COC include all

Client T

Analysis T

Sampler Name T

pertinent Information? Project T

ID's T

Collection Dates/Times T

Are Sample labels filled out and legible? N/A

Are there Lab to Filters? N/A

Are there Rushes? N/A

Are there Short Holds? N/A

Is there enough Volume? T

Is there Headspace where applicable? N/A

Proper Media/Containers Used? T

Were trip blanks received? N/A

Do all samples have the proper pH? N/A

Who was notified?

Who was notified?

Who was notified?

MS/MSD? N/A

Is splitting samples required? N/A

On COC? N/A

Acid

Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091317.SEC\A0913007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/13/17
 Data File Name A0913007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	588071	606245	-3
c - 10	1.63	595033	606245	-2
c - 12	2.35	611957	606245	1
c - 14	3.01	622160	606245	3
c - 16	3.61	634325	606245	5
c - 18	4.23	624551	606245	3
o-Terphenyl	4.51	692611	606245	
c - 20	4.83	629691	606245	4
c - 22	5.34	636645	606245	5
c - 24	5.77	591488	606245	-2
c - 26	6.16	620737	606245	2
c - 28	6.52	609671	606245	1
c - 30	6.85	598868	606245	-1
c - 32	7.16	577682	606245	-5
c - 34	7.46	576944	606245	-5
c - 36	7.77	575858	606245	-5

* One compound allowed %D <= 50%

Samples

17I0175-01
 17I0175-03@10X
 17I0177-17@10X

D:\HPCHEM\1\DATA\A091417\A0914006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
 Data File Name A0914006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	453384	492607	-8
c - 10	1.64	459697	492607	-7
c - 12	2.37	475397	492607	-3
c - 14	3.04	486082	492607	-1
c - 16	3.65	499764	492607	1
c - 18	4.29	497896	492607	1
o-Terphenyl	4.57	557590	492607	
c - 20	4.89	508182	492607	3
c - 22	5.39	521020	492607	6
c - 24	5.83	490841	492607	0
c - 26	6.23	519460	492607	5
c - 28	6.59	511554	492607	4
c - 30	6.92	503634	492607	2
c - 32	7.24	486513	492607	-1
c - 34	7.53	487105	492607	-1
c - 36	7.88	488572	492607	-1

* One compound allowed %D <= 50%

Samples

17I0177-05
 17I0177-08
 17I0177-10
 17I0177-19
 17I0177-04
 17I0325-03

D:\HPCHEM\1\DATA\A091417.SEC\A0914007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
 Data File Name A0914007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	539073	575809	-6
c - 10	1.62	543533	575809	-6
c - 12	2.34	558790	575809	-3
c - 14	3.01	572281	575809	-1
c - 16	3.61	587727	575809	2
c - 18	4.23	583831	575809	1
o-Terphenyl	4.51	652231	575809	
c - 20	4.83	593936	575809	3
c - 22	5.34	605192	575809	5
c - 24	5.77	567503	575809	-1
c - 26	6.17	598870	575809	4
c - 28	6.52	591410	575809	3
c - 30	6.85	587003	575809	2
c - 32	7.16	570625	575809	-1
c - 34	7.46	570163	575809	-1
c - 36	7.77	567197	575809	-1

* One compound allowed %D <= 50%

Samples

17I0174-01
 17I0174-02
 17I0287-02
 17I0287-03
 17I0287-04
 17I0314-01
 17I0314-02
 17I0314-03
 17I0322-01
 17I0325-01
 17I0325-02
 17I0325-03



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: 17I0177

Laboratory Sample ID(s):

17I0177-01 thru 17I0177-20

Sample Date(s):

09/06/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/19/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 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: 1710240

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17I0240-01	6
17I0240-02	8
17I0240-03	11
17I0240-04	13
17I0240-05	15
17I0240-06	18
17I0240-07	20
17I0240-08	23
17I0240-09	25
17I0240-10	27
17I0240-11	30
Sample Preparation Information	32
QC Data	33
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	33
B186216	33
Petroleum Hydrocarbons Analyses	35
B186111	35
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	36
B186180	36
Dual Column RPD Report	37
Flag/Qualifier Summary	38
Certifications	39

Table of Contents (continued)

Chain of Custody/Sample Receipt	40
---------------------------------	----

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710240

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-34-3	1710240-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-31-1	1710240-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-31-2	1710240-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-31-3	1710240-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-36-1	1710240-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-36-2	1710240-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-33-1	1710240-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-33-2	1710240-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-33-3	1710240-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-37-1	1710240-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-37-2	1710240-11	Soil		SM 2540G	
				SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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.

A handwritten signature in black ink, appearing to read "Tod Kopyscinski". The signature is fluid and cursive, with the first name "Tod" and last name "Kopyscinski" clearly distinguishable.

Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-3

Sampled: 9/7/2017 14:10

Sample ID: 1710240-01

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	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.7	30-150						9/16/17 12:47	
Decachlorobiphenyl [2]	89.1	30-150						9/16/17 12:47	
Tetrachloro-m-xylene [1]	83.0	30-150						9/16/17 12:47	
Tetrachloro-m-xylene [2]	87.4	30-150						9/16/17 12:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-3

Sampled: 9/7/2017 14:10

Sample ID: 1710240-01

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	62.3		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-1

Sampled: 9/7/2017 14:19

Sample ID: 1710240-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	94.4	30-150							
Tetrachloro-m-xylene [1]	87.1	30-150							
Tetrachloro-m-xylene [2]	91.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-1

Sampled: 9/7/2017 14:19

Sample ID: 1710240-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	20	13	mg/Kg dry	1		CTDEP ETPH	9/13/17	9/18/17 1:21	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	86.3		50-150					9/18/17 1:21	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-1

Sampled: 9/7/2017 14:19

Sample ID: 1710240-02

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	73.2		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-2

Sampled: 9/7/2017 14:20

Sample ID: 1710240-03

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	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.3	30-150							
Decachlorobiphenyl [2]	87.9	30-150							
Tetrachloro-m-xylene [1]	88.0	30-150							
Tetrachloro-m-xylene [2]	92.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-2

Sampled: 9/7/2017 14:20

Sample ID: 1710240-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.3		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-3

Sampled: 9/7/2017 14:21

Sample ID: 1710240-04

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	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.9	30-150							
Decachlorobiphenyl [2]	95.0	30-150							
Tetrachloro-m-xylene [1]	88.6	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-3

Sampled: 9/7/2017 14:21

Sample ID: 1710240-04

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	83.1		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-1

Sampled: 9/7/2017 14:31

Sample ID: 1710240-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.3	30-150							
Decachlorobiphenyl [2]	89.9	30-150							
Tetrachloro-m-xylene [1]	87.9	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-1

Sampled: 9/7/2017 14:31

Sample ID: 1710240-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	74	55	mg/Kg dry	5		CTDEP ETPH	9/13/17	9/18/17 1:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	68.0		50-150					9/18/17 1:38	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-1

Sampled: 9/7/2017 14:31

Sample ID: 1710240-05

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	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-2

Sampled: 9/7/2017 14:32

Sample ID: 1710240-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.6	30-150							
Decachlorobiphenyl [2]	78.9	30-150							
Tetrachloro-m-xylene [1]	82.6	30-150							
Tetrachloro-m-xylene [2]	87.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-2

Sampled: 9/7/2017 14:32

Sample ID: 1710240-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.6		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-1

Sampled: 9/7/2017 14:37

Sample ID: 1710240-07

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	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.0	30-150						9/16/17 14:33	
Decachlorobiphenyl [2]	85.0	30-150						9/16/17 14:33	
Tetrachloro-m-xylene [1]	86.9	30-150						9/16/17 14:33	
Tetrachloro-m-xylene [2]	90.9	30-150						9/16/17 14:33	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-1

Sampled: 9/7/2017 14:37

Sample ID: 1710240-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	43	13	mg/Kg dry	1		CTDEP ETPH	9/13/17	9/18/17 1:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	88.9		50-150					9/18/17 1:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-1

Sampled: 9/7/2017 14:37

Sample ID: 1710240-07

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	76.0		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-2

Sampled: 9/7/2017 14:38

Sample ID: 1710240-08

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	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.4	30-150							
Decachlorobiphenyl [2]	87.8	30-150							
Tetrachloro-m-xylene [1]	84.6	30-150							
Tetrachloro-m-xylene [2]	88.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-2

Sampled: 9/7/2017 14:38

Sample ID: 1710240-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.0		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-3

Sampled: 9/7/2017 14:39

Sample ID: 1710240-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150						9/16/17 16:14	
Decachlorobiphenyl [2]	84.8	30-150						9/16/17 16:14	
Tetrachloro-m-xylene [1]	79.9	30-150						9/16/17 16:14	
Tetrachloro-m-xylene [2]	82.6	30-150						9/16/17 16:14	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-3

Sampled: 9/7/2017 14:39

Sample ID: 1710240-09

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	65.8		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-1

Sampled: 9/7/2017 14:47

Sample ID: 1710240-10

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	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1268 [1]	0.12	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.1	30-150							
Decachlorobiphenyl [2]	84.1	30-150							
Tetrachloro-m-xylene [1]	81.7	30-150							
Tetrachloro-m-xylene [2]	85.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-1

Sampled: 9/7/2017 14:47

Sample ID: 1710240-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40	11	mg/Kg dry	1		CTDEP ETPH	9/13/17	9/18/17 13:59	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.3		50-150					9/18/17 13:59	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-1

Sampled: 9/7/2017 14:47

Sample ID: 1710240-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-2

Sampled: 9/7/2017 14:48

Sample ID: 1710240-11

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	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.6	30-150							
Decachlorobiphenyl [2]	79.8	30-150							
Tetrachloro-m-xylene [1]	83.4	30-150							
Tetrachloro-m-xylene [2]	88.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-2

Sampled: 9/7/2017 14:48

Sample ID: 1710240-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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
17I0240-02 [WS-AOC-15-SO-31-1]	B186111	30.8	1.00	09/13/17
17I0240-05 [WS-AOC-15-SO-36-1]	B186111	30.5	1.00	09/13/17
17I0240-07 [WS-AOC-15-SO-33-1]	B186111	30.0	1.00	09/13/17
17I0240-10 [WS-AOC-15-SO-37-1]	B186111	30.9	1.00	09/13/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0240-01 [WS-AOC-15-SO-34-3]	B186180	09/15/17
17I0240-02 [WS-AOC-15-SO-31-1]	B186180	09/15/17
17I0240-03 [WS-AOC-15-SO-31-2]	B186180	09/15/17
17I0240-04 [WS-AOC-15-SO-31-3]	B186180	09/15/17
17I0240-05 [WS-AOC-15-SO-36-1]	B186180	09/15/17
17I0240-06 [WS-AOC-15-SO-36-2]	B186180	09/15/17
17I0240-07 [WS-AOC-15-SO-33-1]	B186180	09/15/17
17I0240-08 [WS-AOC-15-SO-33-2]	B186180	09/15/17
17I0240-09 [WS-AOC-15-SO-33-3]	B186180	09/15/17
17I0240-10 [WS-AOC-15-SO-37-1]	B186180	09/15/17
17I0240-11 [WS-AOC-15-SO-37-2]	B186180	09/15/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0240-01 [WS-AOC-15-SO-34-3]	B186216	10.7	10.0	09/14/17
17I0240-02 [WS-AOC-15-SO-31-1]	B186216	10.4	10.0	09/14/17
17I0240-03 [WS-AOC-15-SO-31-2]	B186216	10.6	10.0	09/14/17
17I0240-04 [WS-AOC-15-SO-31-3]	B186216	10.7	10.0	09/14/17
17I0240-05 [WS-AOC-15-SO-36-1]	B186216	10.6	10.0	09/14/17
17I0240-06 [WS-AOC-15-SO-36-2]	B186216	10.7	10.0	09/14/17
17I0240-07 [WS-AOC-15-SO-33-1]	B186216	10.7	10.0	09/14/17
17I0240-08 [WS-AOC-15-SO-33-2]	B186216	10.8	10.0	09/14/17
17I0240-09 [WS-AOC-15-SO-33-3]	B186216	10.6	10.0	09/14/17
17I0240-10 [WS-AOC-15-SO-37-1]	B186216	10.7	10.0	09/14/17
17I0240-11 [WS-AOC-15-SO-37-2]	B186216	10.5	10.0	09/14/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186216 - SW-846 3540C
Blank (B186216-BLK1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			

LCS (B186216-BS1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.4	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.0	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.4	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.1	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.7	30-150			

LCS Dup (B186216-BSD1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.7	40-140	3.88	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.7	40-140	0.355	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.0	40-140	5.34	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.3	40-140	5.34	30	
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		82.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.200		84.2	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186216 - SW-846 3540C
Matrix Spike (B186216-MS1)
Source: 1710240-11

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.22	0.094	mg/Kg dry	0.235	ND	94.9	40-140			
Aroclor-1016 [2C]	0.22	0.094	mg/Kg dry	0.235	ND	93.0	40-140			
Aroclor-1260	0.18	0.094	mg/Kg dry	0.235	ND	77.7	40-140			
Aroclor-1260 [2C]	0.19	0.094	mg/Kg dry	0.235	ND	79.1	40-140			
Surrogate: Decachlorobiphenyl	0.179		mg/Kg dry	0.235		76.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.189		mg/Kg dry	0.235		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.235		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.212		mg/Kg dry	0.235		90.2	30-150			

Matrix Spike Dup (B186216-MSD1)
Source: 1710240-11

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.21	0.090	mg/Kg dry	0.224	ND	92.0	40-140	7.90	50	
Aroclor-1016 [2C]	0.21	0.090	mg/Kg dry	0.224	ND	91.7	40-140	6.25	50	
Aroclor-1260	0.17	0.090	mg/Kg dry	0.224	ND	73.7	40-140	10.0	50	
Aroclor-1260 [2C]	0.17	0.090	mg/Kg dry	0.224	ND	75.8	40-140	9.15	50	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg dry	0.224		69.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg dry	0.224		73.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg dry	0.224		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.224		86.6	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186111 - SW-846 3546										
Blank (B186111-BLK1)				Prepared: 09/13/17 Analyzed: 09/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.15		mg/Kg wet	3.33		94.4	50-150			
LCS (B186111-BS1)				Prepared: 09/13/17 Analyzed: 09/15/17						
CT ETPH	25.5	10	mg/Kg wet	33.3		76.4	60-120			
Surrogate: o-Terphenyl	3.34		mg/Kg wet	3.33		100	50-150			
LCS Dup (B186111-BSD1)				Prepared: 09/13/17 Analyzed: 09/15/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120	1.15	30	
Surrogate: o-Terphenyl	3.33		mg/Kg wet	3.33		99.8	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186180 - % Solids
Duplicate (B186180-DUP3)
Source: 1710240-01

Prepared & Analyzed: 09/15/17

% Solids	66.4		% Wt		62.3			6.37	20	
----------	------	--	------	--	------	--	--	------	----	--

Duplicate (B186180-DUP4)
Source: 1710240-02

Prepared & Analyzed: 09/15/17

% Solids	72.0		% Wt		73.2			1.65	20	
----------	------	--	------	--	------	--	--	------	----	--

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-15-SO-37-1***SW-846 8082A*

Lab Sample ID: 17I0240-10 Date(s) Analyzed: 09/16/2017 09/16/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.12	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1710240



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky Hill, CT
Phone: 860 513-1473

Project Name: English Station
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 2170495
Project Manager: Malcolm Beeler

Con-Test Bid: Malcolm Beeler (Weston & Sampson)
Invoice Recipient: Chris Berthiaume/Will Sirotnak
Sampled By:

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Other: ☐ 5-day ☐
Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Data Delivery
Format: PDF ☒ EXCEL ☒
Other: ☐
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-ADC-15-SD-34-3	9/7/17	14:00		X	S	U
02	WS-ADC-15-SD-31-1		14:19				
03	WS-ADC-15-SD-31-2		14:20				
04	WS-ADC-15-SD-31-3		14:21				
05	WS-ADC-15-SD-36-1		14:31				
06	WS-ADC-15-SD-36-2		14:32				
07	WS-ADC-15-SD-36-2						
08	WS-ADC-15-SD-33-1		14:37				
09	WS-ADC-15-SD-33-2		14:38				
09	WS-ADC-15-SD-33-3		14:39				

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: 9/7/17 15:00	Detection Limit Requirements	MA	Other
Received by: (signature)	Date/Time: 9/7/17 15:00			
Relinquished by: (signature)	Date/Time: 9/7/17 15:00			
Received by: (signature)	Date/Time: 9/7/17 4:00	RES DEC	CT	Other
Relinquished by: (signature)	Date/Time: 9/7/17 5:00			
Received by: (signature)	Date/Time: 9/7/17 17:00			

Program Information
☐ MCP Analytical Certification Form Required
☒ RCP Analysis Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NECAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

of Containers
2 Preservation Code
3 Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Page 41 of 46

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 Engineers

Received By WCG Date 9/7/17 Time 17:05

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0/2.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? T

Proper Media/Containers Used? T

Were trip blanks received? N/A

Do all samples have the proper pH?

Who was notified?

Who was notified?

Who was notified?

MS/MSD? N/A

Is splitting samples required? N/A

On COC? N/A

Acid N/A Base N/A

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			

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091717\A0917006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
 Data File Name A0917006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	515974	554748	-7
c - 10	1.64	522877	554748	-6
c - 12	2.37	540525	554748	-3
c - 14	3.04	554332	554748	0
c - 16	3.65	569229	554748	3
c - 18	4.28	564619	554748	2
o-Terphenyl	4.56	627166	554748	
c - 20	4.89	573008	554748	3
c - 22	5.39	583609	554748	5
c - 24	5.83	546227	554748	-2
c - 26	6.23	576595	554748	4
c - 28	6.59	569569	554748	3
c - 30	6.92	562874	554748	1
c - 32	7.23	547089	554748	-1
c - 34	7.53	548272	554748	-1
c - 36	7.87	546413	554748	-2

* One compound allowed %D <= 50%

Samples

17I0325-05
 17I0325-07

D:\HPCHEM\1\DATA\A091717\A0917040.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
 Data File Name A0917040.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	535890	583545	-8
c - 10	1.64	548818	583545	-6
c - 12	2.37	569864	583545	-2
c - 14	3.04	583427	583545	0
c - 16	3.65	599105	583545	3
c - 18	4.29	595027	583545	2
o-Terphenyl	4.57	659631	583545	
c - 20	4.89	603748	583545	3
c - 22	5.39	614462	583545	5
c - 24	5.83	575104	583545	-1
c - 26	6.23	606423	583545	4
c - 28	6.59	598609	583545	3
c - 30	6.92	591495	583545	1
c - 32	7.23	575072	583545	-1
c - 34	7.53	577173	583545	-1
c - 36	7.87	578951	583545	-1

* One compound allowed %D <= 50%

Samples

17I0234-01
 17I0234-02
 17I0234-04
 17I0234-05
 17I0234-06
 17I0234-07
 17I0240-02
 17I0240-05@5X
 17I0240-07

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0234-03@5X
 17I0234-08@5X
 17I0374-03@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: 17I0240

Laboratory Sample ID(s):

17I0240-01 thru 17I0240-11

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Laboratory Director
Printed Name: Tod E. Kopyscinski
Date: 09/18/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0241

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0241-01	7
17I0241-02	10
17I0241-03	12
17I0241-04	14
17I0241-05	17
17I0241-06	19
17I0241-07	21
17I0241-08	23
17I0241-09	25
17I0241-10	27
17I0241-11	30
17I0241-12	32
17I0241-13	34
17I0241-14	37
17I0241-15	39
17I0241-16	41
17I0241-17	44
17I0241-18	46
17I0241-19	48
17I0241-20	51
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B186156	55
Petroleum Hydrocarbons Analyses	57
B186230	57
B186581	57
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	58
B186104	58
Flag/Qualifier Summary	59
Certifications	60
Chain of Custody/Sample Receipt	61

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710241

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-15-1	1710241-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-15-2	1710241-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-15-3	1710241-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-21-1	1710241-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-21-2	1710241-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-21-3	1710241-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP49	1710241-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP50	1710241-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP51	1710241-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-28-1	1710241-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-28-2	1710241-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-28-3	1710241-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-26-1	1710241-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-26-2	1710241-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-26-3	1710241-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-30-1	1710241-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-30-2	1710241-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-30-3	1710241-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710241

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-34-1	1710241-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-34-2	1710241-20	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH**Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

17I0241-10RE1[WS-AOC-15-SO-28-1], B186581-MS1, B186581-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**o-Terphenyl**

17I0241-04[WS-AOC-15-SO-21-1], 17I0241-13[WS-AOC-15-SO-26-1]

SW-846 8082A**Qualifications:****DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17I0241-04[WS-AOC-15-SO-21-1], 17I0241-05[WS-AOC-15-SO-21-2], 17I0241-13[WS-AOC-15-SO-26-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-1

Sampled: 9/7/2017 12:02

Sample ID: 1710241-01

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	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	106	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	96.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-1

Sampled: 9/7/2017 12:02

Sample ID: 1710241-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	30	12	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 18:46	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.6		50-150					9/18/17 18:46	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-1

Sampled: 9/7/2017 12:02

Sample ID: 1710241-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-2

Sampled: 9/7/2017 12:03

Sample ID: 1710241-02

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	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	111	30-150							
Decachlorobiphenyl [2]	109	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	106	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-2

Sampled: 9/7/2017 12:03

Sample ID: 1710241-02

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	90.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-3

Sampled: 9/7/2017 12:04

Sample ID: 1710241-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.0	30-150							
Decachlorobiphenyl [2]	94.8	30-150							
Tetrachloro-m-xylene [1]	94.5	30-150							
Tetrachloro-m-xylene [2]	98.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-3

Sampled: 9/7/2017 12:04

Sample ID: 1710241-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-1

Sampled: 9/7/2017 12:25

Sample ID: 1710241-04

Sample Matrix: Soil

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	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150							
Decachlorobiphenyl [2]	83.1	30-150							
Tetrachloro-m-xylene [1]	90.2	30-150							
Tetrachloro-m-xylene [2]	96.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-1

Sampled: 9/7/2017 12:25

Sample ID: 1710241-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1400	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/20/17 12:24	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 12:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-1

Sampled: 9/7/2017 12:25

Sample ID: 1710241-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-2

Sampled: 9/7/2017 12:26

Sample ID: 1710241-05

Sample Matrix: Soil

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	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
Decachlorobiphenyl [1]	59.9		30-150			9/18/17 17:07			
Decachlorobiphenyl [2]	66.7		30-150			9/18/17 17:07			
Tetrachloro-m-xylene [1]	82.1		30-150			9/18/17 17:07			
Tetrachloro-m-xylene [2]	90.6		30-150			9/18/17 17:07			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-2

Sampled: 9/7/2017 12:26

Sample ID: 1710241-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-3

Sampled: 9/7/2017 12:27

Sample ID: 1710241-06

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	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.8	30-150							
Decachlorobiphenyl [2]	96.0	30-150							
Tetrachloro-m-xylene [1]	93.2	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-3

Sampled: 9/7/2017 12:27

Sample ID: 1710241-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP49

Sampled: 9/7/2017 00:00

Sample ID: 1710241-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.3	30-150							
Decachlorobiphenyl [2]	94.5	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	98.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP49

Sampled: 9/7/2017 00:00

Sample ID: 1710241-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP50

Sampled: 9/7/2017 00:00

Sample ID: 1710241-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.6	30-150							
Decachlorobiphenyl [2]	83.4	30-150							
Tetrachloro-m-xylene [1]	83.2	30-150							
Tetrachloro-m-xylene [2]	85.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP50

Sampled: 9/7/2017 00:00

Sample ID: 1710241-08

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	85.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP51

Sampled: 9/7/2017 00:00

Sample ID: 1710241-09

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	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	92.0	30-150							
Tetrachloro-m-xylene [1]	96.4	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP51

Sampled: 9/7/2017 00:00

Sample ID: 1710241-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-1

Sampled: 9/7/2017 13:42

Sample ID: 1710241-10

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.3	30-150							
Decachlorobiphenyl [2]	93.1	30-150							
Tetrachloro-m-xylene [1]	95.3	30-150							
Tetrachloro-m-xylene [2]	95.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-1

Sampled: 9/7/2017 13:42

Sample ID: 1710241-10

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	270	59	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/19/17	9/21/17 3:11	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	73.4		50-150				9/21/17 3:11		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-1

Sampled: 9/7/2017 13:42

Sample ID: 1710241-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-2

Sampled: 9/7/2017 13:43

Sample ID: 1710241-11

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.9	30-150							
Decachlorobiphenyl [2]	89.2	30-150							
Tetrachloro-m-xylene [1]	92.8	30-150							
Tetrachloro-m-xylene [2]	95.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-2

Sampled: 9/7/2017 13:43

Sample ID: 1710241-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-3

Sampled: 9/7/2017 13:44

Sample ID: 1710241-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150						9/19/17 11:07	
Decachlorobiphenyl [2]	80.6	30-150						9/19/17 11:07	
Tetrachloro-m-xylene [1]	84.3	30-150						9/19/17 11:07	
Tetrachloro-m-xylene [2]	88.5	30-150						9/19/17 11:07	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-3

Sampled: 9/7/2017 13:44

Sample ID: 1710241-12

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	76.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-1

Sampled: 9/7/2017 13:53

Sample ID: 1710241-13

Sample Matrix: Soil

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	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.6	30-150							
Decachlorobiphenyl [2]	78.0	30-150							
Tetrachloro-m-xylene [1]	85.6	30-150							
Tetrachloro-m-xylene [2]	91.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-1

Sampled: 9/7/2017 13:53

Sample ID: 1710241-13

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1600	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 20:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/19/17 20:42		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-1

Sampled: 9/7/2017 13:53

Sample ID: 1710241-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-2

Sampled: 9/7/2017 13:54

Sample ID: 1710241-14

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	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.5	30-150							
Decachlorobiphenyl [2]	84.8	30-150							
Tetrachloro-m-xylene [1]	94.9	30-150							
Tetrachloro-m-xylene [2]	97.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-2

Sampled: 9/7/2017 13:54

Sample ID: 1710241-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-3

Sampled: 9/7/2017 13:55

Sample ID: 1710241-15

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	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.6	30-150							
Decachlorobiphenyl [2]	70.6	30-150							
Tetrachloro-m-xylene [1]	87.0	30-150							
Tetrachloro-m-xylene [2]	89.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-3

Sampled: 9/7/2017 13:55

Sample ID: 1710241-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-1

Sampled: 9/7/2017 13:59

Sample ID: 1710241-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.3	30-150						9/18/17 21:27	
Decachlorobiphenyl [2]	85.9	30-150						9/18/17 21:27	
Tetrachloro-m-xylene [1]	89.9	30-150						9/18/17 21:27	
Tetrachloro-m-xylene [2]	92.3	30-150						9/18/17 21:27	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-1

Sampled: 9/7/2017 13:59

Sample ID: 1710241-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	62	mg/Kg dry	5		CTDEP ETPH	9/14/17	9/20/17 2:18	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	58.4		50-150					9/20/17 2:18	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-1

Sampled: 9/7/2017 13:59

Sample ID: 1710241-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-2

Sampled: 9/7/2017 14:00

Sample ID: 1710241-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.2	30-150							
Decachlorobiphenyl [2]	121	30-150							
Tetrachloro-m-xylene [1]	89.3	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-2

Sampled: 9/7/2017 14:00

Sample ID: 1710241-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-3

Sampled: 9/7/2017 14:01

Sample ID: 1710241-18

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150							
Decachlorobiphenyl [2]	92.9	30-150							
Tetrachloro-m-xylene [1]	91.4	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-3

Sampled: 9/7/2017 14:01

Sample ID: 1710241-18

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	83.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-1

Sampled: 9/7/2017 14:08

Sample ID: 1710241-19

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	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.6	30-150						9/18/17 22:21	
Decachlorobiphenyl [2]	96.3	30-150						9/18/17 22:21	
Tetrachloro-m-xylene [1]	97.2	30-150						9/18/17 22:21	
Tetrachloro-m-xylene [2]	99.4	30-150						9/18/17 22:21	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-1

Sampled: 9/7/2017 14:08

Sample ID: 1710241-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 19:21	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	61.9		50-150					9/18/17 19:21	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-1

Sampled: 9/7/2017 14:08

Sample ID: 1710241-19

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	91.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-2

Sampled: 9/7/2017 14:09

Sample ID: 1710241-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	89.0	30-150							
Tetrachloro-m-xylene [1]	86.6	30-150							
Tetrachloro-m-xylene [2]	89.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-2

Sampled: 9/7/2017 14:09

Sample ID: 1710241-20

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	65.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0241-01 [WS-AOC-15-SO-15-1]	B186230	30.0	1.00	09/14/17
17I0241-04 [WS-AOC-15-SO-21-1]	B186230	30.0	2.00	09/14/17
17I0241-13 [WS-AOC-15-SO-26-1]	B186230	30.0	2.00	09/14/17
17I0241-16 [WS-AOC-15-SO-30-1]	B186230	30.0	1.00	09/14/17
17I0241-19 [WS-AOC-15-SO-34-1]	B186230	30.0	1.00	09/14/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0241-10RE1 [WS-AOC-15-SO-28-1]	B186581	30.1	1.00	09/19/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0241-01 [WS-AOC-15-SO-15-1]	B186104	09/13/17
17I0241-02 [WS-AOC-15-SO-15-2]	B186104	09/13/17
17I0241-03 [WS-AOC-15-SO-15-3]	B186104	09/13/17
17I0241-04 [WS-AOC-15-SO-21-1]	B186104	09/13/17
17I0241-05 [WS-AOC-15-SO-21-2]	B186104	09/13/17
17I0241-06 [WS-AOC-15-SO-21-3]	B186104	09/13/17
17I0241-07 [WS-AOC-15-SO-DUP49]	B186104	09/13/17
17I0241-08 [WS-AOC-15-SO-DUP50]	B186104	09/13/17
17I0241-09 [WS-AOC-15-SO-DUP51]	B186104	09/13/17
17I0241-10 [WS-AOC-15-SO-28-1]	B186104	09/13/17
17I0241-11 [WS-AOC-15-SO-28-2]	B186104	09/13/17
17I0241-12 [WS-AOC-15-SO-28-3]	B186104	09/13/17
17I0241-13 [WS-AOC-15-SO-26-1]	B186104	09/13/17
17I0241-14 [WS-AOC-15-SO-26-2]	B186104	09/13/17
17I0241-15 [WS-AOC-15-SO-26-3]	B186104	09/13/17
17I0241-16 [WS-AOC-15-SO-30-1]	B186104	09/13/17
17I0241-17 [WS-AOC-15-SO-30-2]	B186104	09/13/17
17I0241-18 [WS-AOC-15-SO-30-3]	B186104	09/13/17
17I0241-19 [WS-AOC-15-SO-34-1]	B186104	09/13/17
17I0241-20 [WS-AOC-15-SO-34-2]	B186104	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0241-01 [WS-AOC-15-SO-15-1]	B186156	10.0	10.0	09/13/17
17I0241-02 [WS-AOC-15-SO-15-2]	B186156	10.0	10.0	09/13/17
17I0241-03 [WS-AOC-15-SO-15-3]	B186156	10.0	10.0	09/13/17
17I0241-04 [WS-AOC-15-SO-21-1]	B186156	10.0	10.0	09/13/17
17I0241-05 [WS-AOC-15-SO-21-2]	B186156	10.1	10.0	09/13/17
17I0241-06 [WS-AOC-15-SO-21-3]	B186156	10.0	10.0	09/13/17
17I0241-07 [WS-AOC-15-SO-DUP49]	B186156	10.0	10.0	09/13/17
17I0241-08 [WS-AOC-15-SO-DUP50]	B186156	10.0	10.0	09/13/17
17I0241-09 [WS-AOC-15-SO-DUP51]	B186156	10.0	10.0	09/13/17
17I0241-10 [WS-AOC-15-SO-28-1]	B186156	10.0	10.0	09/13/17
17I0241-11 [WS-AOC-15-SO-28-2]	B186156	10.2	10.0	09/13/17
17I0241-12 [WS-AOC-15-SO-28-3]	B186156	10.0	10.0	09/13/17
17I0241-13 [WS-AOC-15-SO-26-1]	B186156	10.1	10.0	09/13/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0241-14 [WS-AOC-15-SO-26-2]	B186156	10.1	10.0	09/13/17
17I0241-15 [WS-AOC-15-SO-26-3]	B186156	10.1	10.0	09/13/17
17I0241-16 [WS-AOC-15-SO-30-1]	B186156	10.0	10.0	09/13/17
17I0241-17 [WS-AOC-15-SO-30-2]	B186156	10.0	10.0	09/13/17
17I0241-18 [WS-AOC-15-SO-30-3]	B186156	10.0	10.0	09/13/17
17I0241-19 [WS-AOC-15-SO-34-1]	B186156	10.0	10.0	09/13/17
17I0241-20 [WS-AOC-15-SO-34-2]	B186156	10.1	10.0	09/13/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186156 - SW-846 3540C
Blank (B186156-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			

LCS (B186156-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.4	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.7	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.0	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.7	30-150			

LCS Dup (B186156-BSD1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		102	40-140	7.96	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.0	40-140	5.62	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.5	40-140	8.40	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.9	40-140	6.55	30	
Surrogate: Decachlorobiphenyl	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg wet	0.200		100	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186156 - SW-846 3540C
Matrix Spike (B186156-MS1)
Source: 1710241-10

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.23	0.095	mg/Kg dry	0.238	ND	96.0	40-140			
Aroclor-1016 [2C]	0.23	0.095	mg/Kg dry	0.238	ND	94.7	40-140			
Aroclor-1260	0.20	0.095	mg/Kg dry	0.238	ND	83.8	40-140			
Aroclor-1260 [2C]	0.20	0.095	mg/Kg dry	0.238	ND	83.5	40-140			
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.238		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.218		mg/Kg dry	0.238		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.215		mg/Kg dry	0.238		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.238		92.8	30-150			

Matrix Spike Dup (B186156-MSD1)
Source: 1710241-10

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.25	0.095	mg/Kg dry	0.238	ND	105	40-140	8.94	50	
Aroclor-1016 [2C]	0.25	0.095	mg/Kg dry	0.238	ND	104	40-140	9.04	50	
Aroclor-1260	0.21	0.095	mg/Kg dry	0.238	ND	89.2	40-140	6.23	50	
Aroclor-1260 [2C]	0.21	0.095	mg/Kg dry	0.238	ND	88.1	40-140	5.33	50	
Surrogate: Decachlorobiphenyl	0.234		mg/Kg dry	0.238		98.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.235		mg/Kg dry	0.238		98.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.236		mg/Kg dry	0.238		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.242		mg/Kg dry	0.238		102	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186230 - SW-846 3546										
Blank (B186230-BLK1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.9	50-150			
LCS (B186230-BS1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	2.89		mg/Kg wet	3.33		86.7	50-150			
LCS Dup (B186230-BSD1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	26.1	10	mg/Kg wet	33.3		78.4	60-120	3.81	30	
Surrogate: o-Terphenyl	3.02		mg/Kg wet	3.33		90.6	50-150			
Batch B186581 - SW-846 3546										
Blank (B186581-BLK1)				Prepared: 09/19/17 Analyzed: 09/20/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.41		mg/Kg wet	3.33		102	50-150			
LCS (B186581-BS1)				Prepared: 09/19/17 Analyzed: 09/20/17						
CT ETPH	24.7	10	mg/Kg wet	33.3		74.1	60-120			
Surrogate: o-Terphenyl	3.30		mg/Kg wet	3.33		99.0	50-150			
LCS Dup (B186581-BSD1)				Prepared: 09/19/17 Analyzed: 09/20/17						
CT ETPH	27.7	10	mg/Kg wet	33.3		83.2	60-120	11.7	30	
Surrogate: o-Terphenyl	3.57		mg/Kg wet	3.33		107	50-150			
Matrix Spike (B186581-MS1)				Source: 17I0241-10RE1		Prepared: 09/19/17 Analyzed: 09/21/17				
CT ETPH	256	60	mg/Kg dry	39.7	269	-33.0 *	50-150			MS-07A
Surrogate: o-Terphenyl	2.83		mg/Kg dry	3.97		71.2	50-150			
Matrix Spike Dup (B186581-MSD1)				Source: 17I0241-10RE1		Prepared: 09/19/17 Analyzed: 09/21/17				
CT ETPH	255	59	mg/Kg dry	39.6	269	-35.6 *	50-150	0.375	30	MS-07A
Surrogate: o-Terphenyl	2.78		mg/Kg dry	3.96		70.4	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186104 - % Solids										
Duplicate (B186104-DUP1)	Source: 17I0241-10			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	86.9		% Wt		84.0			3.39	20	
Duplicate (B186104-DUP2)	Source: 17I0241-11			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	80.3		% Wt		82.8			3.07	20	
Duplicate (B186104-DUP3)	Source: 17I0241-12			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	76.7		% Wt		76.4			0.392	20	
Duplicate (B186104-DUP4)	Source: 17I0241-13			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	95.5		% Wt		95.1			0.420	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**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.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid: Malcolm Beeler

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

Requested Turnaround Time

7-Day ☒ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required

1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☒ EXCEL ☒
Other: ☐

Enhanced Data Package Required: ☐

Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-ADG-15-50-15-1	9/7/17	1202		X	S	U
02	WS-ADG-15-50-15-2	9/7/17	1203		X	S	U
03	WS-ADG-15-50-15-3	9/7/17	1204		X	S	U
04	WS-ADG-15-50-21-1	9/7/17	1225		X	S	U
05	WS-ADG-15-50-21-2	9/7/17	1226		X	S	U
06	WS-ADG-15-50-21-3	9/7/17	1227		X	S	U
07	WS-ADG-15-50-DUP49	9/7/17	-		X	S	U
08	WS-ADG-15-50-DUP 50	9/7/17	-		X	S	U
09	WS-ADG-15-50-DUP 51	9/7/17	-		X	S	U
10	WS-ADG-15-50-23-1	9/7/17	1342		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Date/Time: 9/7/17 1500

Received by: (signature) Date/Time: 9/7/17 1500

Relinquished by: (signature) Date/Time: RES DEC

Received by: (signature) Date/Time: 9/7/17 4:00

Relinquished by: (signature) Date/Time: 9/7/17 5:05

Received by: (signature) Date/Time: 9/7/17 17:05

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	5-Day ☐
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #: _____	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADC-15-SO-23-2	9/17/17	1343		X	S	U
12	WS-ADC-15-SO-28-3		1344				
13	WS-ADC-15-SO-26-1		1353				
14	WS-ADC-15-SO-26-2		1354				
15	WS-ADC-15-SO-26-3		1355				
16	WS-ADC-15-SO-30-1		1359				
17	WS-ADC-15-SO-30-2		1400				
18	WS-ADC-15-SO-30-3		1401				
19	WS-ADC-15-SO-34-1		1408				
20	WS-ADC-15-SO-34-2		1409				

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

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

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 Western & Sampson Engineers

Received By WCG Date 9/7/17 Time 17:05

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0°C/2.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? 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 Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb /Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919034.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples

17I0380-07
 17I0380-08
 17I0408-01
 17I0408-02
 17I0408-03
 17I0408-04
 17I0408-05
 17I0408-06
 17I0408-07
 17I0408-08
 17I0539-06
 17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919080.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples

17I0719-04
 17I0719-07
 17I0719-04
 17I0719-08@20X
 17I0719-09@10X
 17I0241-16@5X
 17I0244-11@10X
 17I0317-01@5X
 17I0317-08@5X
 17I0317-12@5X
 17I0317-16@5X
 17I0317-20@5X

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919137.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
 17I0380-01
 17I0380-03
 17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920031.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920079.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
 17I0517-09
 17I0517-12
 17I0462-04
 17I0462-17
 17I0462-20
 17I0463-12
 17I0241-10RE1@5X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0241

Laboratory Sample ID(s):

17I0241-01 thru 17I0241-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/21/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0242

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0242-01	7
17I0242-02	9
17I0242-03	11
17I0242-04	14
17I0242-05	17
17I0242-06	19
17I0242-07	22
17I0242-08	25
17I0242-09	27
17I0242-10	30
17I0242-11	33
17I0242-12	35
17I0242-13	38
17I0242-14	40
17I0242-15	42
17I0242-16	45
17I0242-17	47
17I0242-18	49
17I0242-19	52
17I0242-20	54
Sample Preparation Information	56
QC Data	58

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS	58
B186232	58
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	60
B186158	60
Petroleum Hydrocarbons Analyses	62
B186230	62
B186685	62
Flag/Qualifier Summary	63
Certifications	64
Chain of Custody/Sample Receipt	66

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710242

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-17-2	1710242-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-17-3	1710242-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-18-1	1710242-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-18-2	1710242-04	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-18-3	1710242-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-8-1	1710242-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-8-2	1710242-07	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-8-3	1710242-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-19-1	1710242-09	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-19-2	1710242-10	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-19-3	1710242-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-25-1	1710242-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-25-2	1710242-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-25-3	1710242-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-1	1710242-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-2	1710242-16	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710242

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-20-3	1710242-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-24-1	1710242-18	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-24-2	1710242-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-24-3	1710242-20	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 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

1710242-06[WS-AOC-15-SO-8-1], 1710242-09[WS-AOC-15-SO-19-1], 1710242-15[WS-AOC-15-SO-20-1], 1710242-18RE1[WS-AOC-15-SO-24-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-2

Sampled: 9/7/2017 10:44

Sample ID: 1710242-01

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.7	30-150							
Decachlorobiphenyl [2]	88.4	30-150							
Tetrachloro-m-xylene [1]	88.8	30-150							
Tetrachloro-m-xylene [2]	91.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-2

Sampled: 9/7/2017 10:44

Sample ID: 1710242-01

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	84.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-3

Sampled: 9/7/2017 10:45

Sample ID: 1710242-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	84.6	30-150							
Tetrachloro-m-xylene [1]	81.0	30-150							
Tetrachloro-m-xylene [2]	85.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-3

Sampled: 9/7/2017 10:45

Sample ID: 1710242-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-1

Sampled: 9/7/2017 11:03

Sample ID: 1710242-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	72.6	30-150							
Tetrachloro-m-xylene [1]	76.4	30-150							
Tetrachloro-m-xylene [2]	78.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-1

Sampled: 9/7/2017 11:03

Sample ID: 1710242-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	56	mg/Kg dry	5		CTDEP ETPH	9/14/17	9/20/17 2:36	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	63.3		50-150					9/20/17 2:36	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-1

Sampled: 9/7/2017 11:03

Sample ID: 1710242-03

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	89.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-2

Sampled: 9/7/2017 11:04

Sample ID: 1710242-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	60.8	30-130						9/15/17 13:05	
2-Fluorobiphenyl	67.3	30-130						9/15/17 13:05	
p-Terphenyl-d14	70.0	30-130						9/15/17 13:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-2

Sampled: 9/7/2017 11:04

Sample ID: 1710242-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.7	30-150							
Decachlorobiphenyl [2]	81.8	30-150							
Tetrachloro-m-xylene [1]	84.0	30-150							
Tetrachloro-m-xylene [2]	86.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-2

Sampled: 9/7/2017 11:04

Sample ID: 1710242-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-3

Sampled: 9/7/2017 11:05

Sample ID: 1710242-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.7	30-150							
Decachlorobiphenyl [2]	75.2	30-150							
Tetrachloro-m-xylene [1]	79.3	30-150							
Tetrachloro-m-xylene [2]	80.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-3

Sampled: 9/7/2017 11:05

Sample ID: 1710242-05

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	79.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-1

Sampled: 9/7/2017 11:37

Sample ID: 1710242-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.1	30-150							
Decachlorobiphenyl [2]	74.9	30-150							
Tetrachloro-m-xylene [1]	77.9	30-150							
Tetrachloro-m-xylene [2]	78.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-1

Sampled: 9/7/2017 11:37

Sample ID: 1710242-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	650	470	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 19:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/19/17 19:31		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-1

Sampled: 9/7/2017 11:37

Sample ID: 1710242-06

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	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-2

Sampled: 9/7/2017 11:38

Sample ID: 1710242-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	55.5	30-130						9/15/17 13:31	
2-Fluorobiphenyl	62.1	30-130						9/15/17 13:31	
p-Terphenyl-d14	65.9	30-130						9/15/17 13:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-2

Sampled: 9/7/2017 11:38

Sample ID: 1710242-07

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	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.7	30-150							
Decachlorobiphenyl [2]	84.6	30-150							
Tetrachloro-m-xylene [1]	92.6	30-150							
Tetrachloro-m-xylene [2]	93.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-2

Sampled: 9/7/2017 11:38

Sample ID: 1710242-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-3

Sampled: 9/7/2017 11:39

Sample ID: 1710242-08

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	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.5	30-150							
Decachlorobiphenyl [2]	91.3	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-3

Sampled: 9/7/2017 11:39

Sample ID: 1710242-08

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	71.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-1

Sampled: 9/7/2017 11:43

Sample ID: 1710242-09

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	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.1	30-150						9/18/17 19:20	
Decachlorobiphenyl [2]	77.3	30-150						9/18/17 19:20	
Tetrachloro-m-xylene [1]	78.5	30-150						9/18/17 19:20	
Tetrachloro-m-xylene [2]	85.1	30-150						9/18/17 19:20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-1

Sampled: 9/7/2017 11:43

Sample ID: 1710242-09

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2500	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 19:49	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/19/17 19:49		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-1

Sampled: 9/7/2017 11:43

Sample ID: 1710242-09

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	94.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-2

Sampled: 9/7/2017 11:44

Sample ID: 1710242-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Chrysene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Fluoranthene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Phenanthrene	0.22	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Pyrene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	76.8	30-130							
2-Fluorobiphenyl	84.9	30-130							
p-Terphenyl-d14	96.3	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-2

Sampled: 9/7/2017 11:44

Sample ID: 1710242-10

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	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
Decachlorobiphenyl [1]	61.9		30-150			9/18/17 19:38			
Decachlorobiphenyl [2]	68.4		30-150			9/18/17 19:38			
Tetrachloro-m-xylene [1]	78.7		30-150			9/18/17 19:38			
Tetrachloro-m-xylene [2]	80.5		30-150			9/18/17 19:38			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-2

Sampled: 9/7/2017 11:44

Sample ID: 1710242-10

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	83.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-3

Sampled: 9/7/2017 11:45

Sample ID: 1710242-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	107	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-3

Sampled: 9/7/2017 11:45

Sample ID: 1710242-11

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	86.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-1

Sampled: 9/7/2017 12:14

Sample ID: 1710242-12

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	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	105	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	95.6	30-150							
Tetrachloro-m-xylene [2]	99.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-1

Sampled: 9/7/2017 12:14

Sample ID: 1710242-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	56	11	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 19:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	59.7		50-150					9/18/17 19:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-1

Sampled: 9/7/2017 12:14

Sample ID: 1710242-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-2

Sampled: 9/7/2017 12:15

Sample ID: 1710242-13

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.3	30-150						9/19/17 16:13	
Decachlorobiphenyl [2]	93.3	30-150						9/19/17 16:13	
Tetrachloro-m-xylene [1]	92.0	30-150						9/19/17 16:13	
Tetrachloro-m-xylene [2]	95.0	30-150						9/19/17 16:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-2

Sampled: 9/7/2017 12:15

Sample ID: 1710242-13

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	84.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-3

Sampled: 9/7/2017 12:16

Sample ID: 1710242-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.5	30-150							
Decachlorobiphenyl [2]	85.8	30-150							
Tetrachloro-m-xylene [1]	83.4	30-150							
Tetrachloro-m-xylene [2]	85.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-3

Sampled: 9/7/2017 12:16

Sample ID: 1710242-14

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	78.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/7/2017 11:59

Sample ID: 1710242-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.5	30-150							
Decachlorobiphenyl [2]	72.0	30-150							
Tetrachloro-m-xylene [1]	82.0	30-150							
Tetrachloro-m-xylene [2]	84.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/7/2017 11:59

Sample ID: 1710242-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	580	460	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 16:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/19/17 16:42	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/7/2017 11:59

Sample ID: 1710242-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/7/2017 12:01

Sample ID: 1710242-16

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	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.4	30-150							
Decachlorobiphenyl [2]	72.7	30-150							
Tetrachloro-m-xylene [1]	74.9	30-150							
Tetrachloro-m-xylene [2]	77.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/7/2017 12:01

Sample ID: 1710242-16

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	85.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/7/2017 12:02

Sample ID: 1710242-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.1	30-150						9/19/17 17:24	
Decachlorobiphenyl [2]	78.1	30-150						9/19/17 17:24	
Tetrachloro-m-xylene [1]	76.1	30-150						9/19/17 17:24	
Tetrachloro-m-xylene [2]	78.4	30-150						9/19/17 17:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/7/2017 12:02

Sample ID: 1710242-17

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	75.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-1

Sampled: 9/7/2017 12:13

Sample ID: 1710242-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.4	30-150							
Decachlorobiphenyl [2]	69.3	30-150							
Tetrachloro-m-xylene [1]	78.8	30-150							
Tetrachloro-m-xylene [2]	80.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-1

Sampled: 9/7/2017 12:13

Sample ID: 1710242-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	680	270	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/21/17 13:45	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/21/17 13:45	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-1

Sampled: 9/7/2017 12:13

Sample ID: 1710242-18

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	75.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-2

Sampled: 9/7/2017 12:14

Sample ID: 1710242-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.5	30-150							
Decachlorobiphenyl [2]	73.9	30-150							
Tetrachloro-m-xylene [1]	80.3	30-150							
Tetrachloro-m-xylene [2]	82.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-2

Sampled: 9/7/2017 12:14

Sample ID: 1710242-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-3

Sampled: 9/7/2017 12:15

Sample ID: 1710242-20

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	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	59.1	30-150						9/19/17 18:17	
Decachlorobiphenyl [2]	62.3	30-150						9/19/17 18:17	
Tetrachloro-m-xylene [1]	66.6	30-150						9/19/17 18:17	
Tetrachloro-m-xylene [2]	69.0	30-150						9/19/17 18:17	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-3

Sampled: 9/7/2017 12:15

Sample ID: 1710242-20

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	82.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-03 [WS-AOC-15-SO-18-1]	B186230	30.0	1.00	09/14/17
17I0242-06 [WS-AOC-15-SO-8-1]	B186230	30.1	2.00	09/14/17
17I0242-09 [WS-AOC-15-SO-19-1]	B186230	30.1	2.00	09/14/17
17I0242-12 [WS-AOC-15-SO-25-1]	B186230	30.0	1.00	09/14/17
17I0242-15 [WS-AOC-15-SO-20-1]	B186230	30.0	2.00	09/14/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-18RE1 [WS-AOC-15-SO-24-1]	B186685	30.0	1.00	09/20/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0242-01 [WS-AOC-15-SO-17-2]	B186104	09/13/17
17I0242-02 [WS-AOC-15-SO-17-3]	B186104	09/13/17
17I0242-03 [WS-AOC-15-SO-18-1]	B186104	09/13/17
17I0242-04 [WS-AOC-15-SO-18-2]	B186104	09/13/17
17I0242-05 [WS-AOC-15-SO-18-3]	B186104	09/13/17
17I0242-06 [WS-AOC-15-SO-8-1]	B186104	09/13/17
17I0242-07 [WS-AOC-15-SO-8-2]	B186104	09/13/17
17I0242-08 [WS-AOC-15-SO-8-3]	B186104	09/13/17
17I0242-09 [WS-AOC-15-SO-19-1]	B186104	09/13/17
17I0242-10 [WS-AOC-15-SO-19-2]	B186104	09/13/17
17I0242-11 [WS-AOC-15-SO-19-3]	B186104	09/13/17
17I0242-12 [WS-AOC-15-SO-25-1]	B186104	09/13/17
17I0242-13 [WS-AOC-15-SO-25-2]	B186104	09/13/17
17I0242-14 [WS-AOC-15-SO-25-3]	B186104	09/13/17
17I0242-15 [WS-AOC-15-SO-20-1]	B186104	09/13/17
17I0242-16 [WS-AOC-15-SO-20-2]	B186104	09/13/17
17I0242-17 [WS-AOC-15-SO-20-3]	B186104	09/13/17
17I0242-18 [WS-AOC-15-SO-24-1]	B186104	09/13/17
17I0242-19 [WS-AOC-15-SO-24-2]	B186104	09/13/17
17I0242-20 [WS-AOC-15-SO-24-3]	B186104	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-01 [WS-AOC-15-SO-17-2]	B186158	10.0	10.0	09/13/17
17I0242-02 [WS-AOC-15-SO-17-3]	B186158	10.1	10.0	09/13/17
17I0242-03 [WS-AOC-15-SO-18-1]	B186158	10.0	10.0	09/13/17
17I0242-04 [WS-AOC-15-SO-18-2]	B186158	10.1	10.0	09/13/17
17I0242-05 [WS-AOC-15-SO-18-3]	B186158	10.1	10.0	09/13/17
17I0242-06 [WS-AOC-15-SO-8-1]	B186158	10.0	10.0	09/13/17
17I0242-07 [WS-AOC-15-SO-8-2]	B186158	10.2	10.0	09/13/17
17I0242-08 [WS-AOC-15-SO-8-3]	B186158	10.0	10.0	09/13/17
17I0242-09 [WS-AOC-15-SO-19-1]	B186158	10.0	10.0	09/13/17
17I0242-10 [WS-AOC-15-SO-19-2]	B186158	10.0	10.0	09/13/17
17I0242-11 [WS-AOC-15-SO-19-3]	B186158	10.0	10.0	09/13/17
17I0242-12 [WS-AOC-15-SO-25-1]	B186158	10.0	10.0	09/13/17
17I0242-13 [WS-AOC-15-SO-25-2]	B186158	10.0	10.0	09/13/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-14 [WS-AOC-15-SO-25-3]	B186158	10.0	10.0	09/13/17
17I0242-15 [WS-AOC-15-SO-20-1]	B186158	10.1	10.0	09/13/17
17I0242-16 [WS-AOC-15-SO-20-2]	B186158	10.1	10.0	09/13/17
17I0242-17 [WS-AOC-15-SO-20-3]	B186158	10.1	10.0	09/13/17
17I0242-18 [WS-AOC-15-SO-24-1]	B186158	10.0	10.0	09/13/17
17I0242-19 [WS-AOC-15-SO-24-2]	B186158	10.0	10.0	09/13/17
17I0242-20 [WS-AOC-15-SO-24-3]	B186158	10.0	10.0	09/13/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-04 [WS-AOC-15-SO-18-2]	B186232	30.3	1.00	09/14/17
17I0242-07 [WS-AOC-15-SO-8-2]	B186232	30.7	1.00	09/14/17
17I0242-10 [WS-AOC-15-SO-19-2]	B186232	30.0	1.00	09/14/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186232 - SW-846 3546

Blank (B186232-BLK1)

Prepared: 09/14/17 Analyzed: 09/15/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.64		mg/Kg wet	3.33		49.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.01		mg/Kg wet	3.33		60.2	30-130			
Surrogate: p-Terphenyl-d14	3.08		mg/Kg wet	3.33		92.3	30-130			

LCS (B186232-BS1)

Prepared: 09/14/17 Analyzed: 09/15/17

Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Benzo(a)anthracene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.3	40-140			
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140			
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: p-Terphenyl-d14	3.10		mg/Kg wet	3.33		93.1	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186232 - SW-846 3546										
LCS Dup (B186232-BSD1)					Prepared: 09/14/17 Analyzed: 09/15/17					
Acenaphthene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140	5.02	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	5.82	30	
Anthracene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140	3.90	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	3.96	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	5.12	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	4.40	30	
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	4.56	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	4.54	30	
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	3.07	30	
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	4.28	30	
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	1.60	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	5.02	30	
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	7.08	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	14.6	30	
Naphthalene	0.889	0.17	mg/Kg wet	1.67		53.4	40-140	19.5	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	3.06	30	
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	3.90	30	
Surrogate: Nitrobenzene-d5	1.85		mg/Kg wet	3.33		55.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: p-Terphenyl-d14	2.98		mg/Kg wet	3.33		89.4	30-130			

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 B186158 - SW-846 3540C
Blank (B186158-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

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		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.6	30-150			

LCS (B186158-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.7	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		72.9	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.2	30-150			

LCS Dup (B186158-BSD1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.1	40-140	9.56	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.7	40-140	8.97	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.8	40-140	12.4	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.8	40-140	12.7	30	
Surrogate: Decachlorobiphenyl	0.209		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg wet	0.200		94.6	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186158 - SW-846 3540C

Matrix Spike (B186158-MS1)

Source: 1710242-01

Prepared: 09/13/17 Analyzed: 09/19/17

Aroclor-1016	0.22	0.095	mg/Kg dry	0.236	ND	94.5	40-140			
Aroclor-1016 [2C]	0.22	0.095	mg/Kg dry	0.236	ND	91.3	40-140			
Aroclor-1260	0.18	0.095	mg/Kg dry	0.236	ND	76.8	40-140			
Aroclor-1260 [2C]	0.18	0.095	mg/Kg dry	0.236	ND	76.8	40-140			
Surrogate: Decachlorobiphenyl	0.179		mg/Kg dry	0.236		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg dry	0.236		78.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg dry	0.236		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg dry	0.236		84.3	30-150			

Matrix Spike Dup (B186158-MSD1)

Source: 1710242-01

Prepared: 09/13/17 Analyzed: 09/19/17

Aroclor-1016	0.24	0.095	mg/Kg dry	0.236	ND	101	40-140	6.56	50	
Aroclor-1016 [2C]	0.23	0.095	mg/Kg dry	0.236	ND	99.1	40-140	8.17	50	
Aroclor-1260	0.21	0.095	mg/Kg dry	0.236	ND	90.2	40-140	16.0	50	
Aroclor-1260 [2C]	0.21	0.095	mg/Kg dry	0.236	ND	89.2	40-140	15.0	50	
Surrogate: Decachlorobiphenyl	0.226		mg/Kg dry	0.236		95.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.228		mg/Kg dry	0.236		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.231		mg/Kg dry	0.236		97.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.237		mg/Kg dry	0.236		100	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186230 - SW-846 3546										
Blank (B186230-BLK1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.9	50-150			
LCS (B186230-BS1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	2.89		mg/Kg wet	3.33		86.7	50-150			
LCS Dup (B186230-BSD1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	26.1	10	mg/Kg wet	33.3		78.4	60-120	3.81	30	
Surrogate: o-Terphenyl	3.02		mg/Kg wet	3.33		90.6	50-150			
Batch B186685 - SW-846 3546										
Blank (B186685-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.8	50-150			
LCS (B186685-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	23.9	10	mg/Kg wet	33.3		71.7	60-120			
Surrogate: o-Terphenyl	2.60		mg/Kg wet	3.33		77.9	50-150			
LCS Dup (B186685-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	25.1	10	mg/Kg wet	33.3		75.2	60-120	4.79	30	
Surrogate: o-Terphenyl	2.74		mg/Kg wet	3.33		82.3	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test 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 ☐ Other:
☐ 2-Day ☐ 4-Day

Data Delivery
 Format: PDF ☒ EXCEL ☐
 Other:
 Enhanced Data Package Required: ☐
 Email To: beelerm@wseinc.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-AOC-15-SD-17-2	9/7/17	1044		X	S	U
02	WS-AOC-15-SD-17-3	9/7/17	1045		X	S	U
03	WS-AOC-15-SD-18-1	9/7/17	1103		X	S	U
04	WS-AOC-15-SD-18-2	9/7/17	1104		X	S	U
05	WS-AOC-15-SD-18-3	9/7/17	1105		X	S	U
06	WS-AOC-15-SD-18-1	9/7/17	1137		X	S	U
07	WS-AOC-15-SD-18-2	9/7/17	1138		X	S	U
08	WS-AOC-15-SD-18-3	9/7/17	1139		X	S	U
09	WS-AOC-15-SD-19-1	9/7/17	1143		X	S	U
10	WS-AOC-15-SD-19-2	9/7/17	1144		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/7/17 1570	Detection Limit Requirements MA CT 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
Received by: (signature)	Date/Time: 9/7/17 1540		
Relinquished by: (signature)	Date/Time:		
Received by: (signature)	Date/Time: 9-7-17 4:00		
Relinquished by: (signature)	Date/Time: 9-7-17 5:05	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	
Received by: (signature)	Date/Time: 9/7/17 17:05		


 Phone: 413-525-2332
 Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume / Will Sirotnak

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐ 5-day ☐	
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To:	beelerm@wseinc.com
Fax To #:	

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC-15-SO-19-3	9/7/17	1145		X	S	U
12	WS-AOC-15-SO-25-1	9/7/17	1214		X	S	U
13	WS-AOC-15-SO-25-2	9/7/17	1215		X	S	U
14	WS-AOC-15-SO-25-3	9/7/17	1214		X	S	U
15	WS-AOC-15-SO-20-1	9/7/17	1159		X	S	U
16	WS-AOC-15-SO-20-2	9/7/17	1201		X	S	U
17	WS-AOC-15-SO-20-3	9/7/17	1202		X	S	U
18	WS-AOC-15-SO-24-1	9/7/17	1213		X	S	U
19	WS-AOC-15-SO-24-2	9/7/17	1214		X	S	U
20	WS-AOC-15-SO-24-3	9/7/17	1215		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/7/17 15:00	Detection Limit Requirements MA CT 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
Received by: (signature)	Date/Time: 9/7/17 15:10		
Relinquished by: (signature)	Date/Time:		
Received by: (signature)	Date/Time: 9-7-17 4:00		
Relinquished by: (signature)	Date/Time: 9-7-17 5:05	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.	
Received by: (signature)	Date/Time: 9/7/17 17:05	PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT	

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson Engineers

Received By WCG Date 9/17/17 Time 17:05

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0/2.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tamped with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear <u>20</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919165.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919165.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581953	610650	-5
c - 10	1.62	593472	610650	-3
c - 12	2.34	610263	610650	0
c - 14	3.01	616782	610650	1
c - 16	3.61	626257	610650	3
c - 18	4.23	613483	610650	0
o-Terphenyl	4.51	680975	610650	
c - 20	4.83	616619	610650	1
c - 22	5.33	622698	610650	2
c - 24	5.77	580341	610650	-5
c - 26	6.16	612913	610650	0
c - 28	6.52	610060	610650	0
c - 30	6.85	612659	610650	0
c - 32	7.16	604431	610650	-1
c - 34	7.45	632261	610650	4
c - 36	7.76	625559	610650	2

* One compound allowed %D <= 50%

Samples

1710244-08@25X
 1710244-17@50X
 1710531-05@10X
 1710242-18@5X

D:\HPCHEM\1\DATA\A091917\A0919168.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
Data File Name A0919168.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.29	558217	618025	-10
c - 10	1.64	570347	618025	-8
c - 12	2.37	590423	618025	-4
c - 14	3.04	604014	618025	-2
c - 16	3.65	622199	618025	1
c - 18	4.28	620256	618025	0
o-Terphenyl	4.56	698283	618025	
c - 20	4.89	633684	618025	3
c - 22	5.39	649827	618025	5
c - 24	5.83	613392	618025	-1
c - 26	6.23	650665	618025	5
c - 28	6.59	645040	618025	4
c - 30	6.92	639031	618025	3
c - 32	7.23	621839	618025	1
c - 34	7.53	625161	618025	1
c - 36	7.87	626287	618025	1

* One compound allowed %D <= 50%

Samples

17I0539-05@5X
17I0319-04@25X

D:\HPCHEM\1\DATA\A092017\A0920140.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/21/17
Data File Name A0920140.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	435241	470609	-8
c - 10	1.64	444152	470609	-6
c - 12	2.37	461128	470609	-2
c - 14	3.04	470801	470609	0
c - 16	3.65	482122	470609	2
c - 18	4.28	479416	470609	2
o-Terphenyl	4.57	533634	470609	
c - 20	4.89	487497	470609	4
c - 22	5.39	497649	470609	6
c - 24	5.83	465793	470609	-1
c - 26	6.23	490017	470609	4
c - 28	6.59	481800	470609	2
c - 30	6.92	474737	470609	1
c - 32	7.23	461489	470609	-2
c - 34	7.53	463004	470609	-2
c - 36	7.87	464291	470609	-1

* One compound allowed %D <= 50%

Samples

17I0242-18RE1@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: 17I0242

Laboratory Sample ID(s):

17I0242-01 thru 17I0242-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/21/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 19, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0243

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0243-01	7
17I0243-02	10
17I0243-03	12
17I0243-04	14
17I0243-05	17
17I0243-06	20
17I0243-07	22
17I0243-08	24
17I0243-09	26
17I0243-10	29
17I0243-11	32
17I0243-12	34
17I0243-13	36
17I0243-14	39
17I0243-15	41
17I0243-16	43
17I0243-17	46
17I0243-18	49
17I0243-19	51
17I0243-20	54
Sample Preparation Information	56
QC Data	58

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS	58
B186232	58
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	60
B186157	60
Petroleum Hydrocarbons Analyses	62
B186235	62
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	63
B186104	63
Flag/Qualifier Summary	64
Certifications	65
Chain of Custody/Sample Receipt	67

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710243

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-3-1	1710243-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-3-2	1710243-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-3-3	1710243-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-6-1	1710243-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-6-2	1710243-05	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-6-3	1710243-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-4-1	1710243-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-4-2	1710243-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-4-3	1710243-09	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-9-1	1710243-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-9-2	1710243-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-9-3	1710243-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-10-1	1710243-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-10-2	1710243-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-10-3	1710243-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-5-1	1710243-16	Soil		SM 2540G SW-846 8082A SW-846 8270D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710243

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-5-2	1710243-17	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-5-3	1710243-18	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-14-1	1710243-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-14-2	1710243-20	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH**Qualifications:****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:**CT ETPH**

B186235-MS1, B186235-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**o-Terphenyl**

1710243-01[WS-AOC-15-SO-3-1], 1710243-04[WS-AOC-15-SO-6-1], 1710243-10[WS-AOC-15-SO-9-1], 1710243-13[WS-AOC-15-SO-10-1], 1710243-19[WS-AOC-15-SO-14-1], B186235-MS1, B186235-MSD1

SW-846 8270D**Qualifications:****RL-12**

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710243-16[WS-AOC-15-SO-5-1]

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:**Nitrobenzene-d5**

1710243-05[WS-AOC-15-SO-6-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-1

Sampled: 9/7/2017 08:42

Sample ID: 1710243-01

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.6	30-150							
Decachlorobiphenyl [2]	89.9	30-150							
Tetrachloro-m-xylene [1]	80.5	30-150							
Tetrachloro-m-xylene [2]	74.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-1

Sampled: 9/7/2017 08:42

Sample ID: 1710243-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	9400	2400	mg/Kg dry	100		CTDEP ETPH	9/14/17	9/18/17 18:10	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/18/17 18:10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-1

Sampled: 9/7/2017 08:42

Sample ID: 1710243-01

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	83.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-2

Sampled: 9/7/2017 08:43

Sample ID: 1710243-02

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	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.3	30-150							
Decachlorobiphenyl [2]	78.0	30-150							
Tetrachloro-m-xylene [1]	76.5	30-150							
Tetrachloro-m-xylene [2]	76.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-2

Sampled: 9/7/2017 08:43

Sample ID: 1710243-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-3

Sampled: 9/7/2017 08:44

Sample ID: 1710243-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.9	30-150						9/18/17 17:24	
Decachlorobiphenyl [2]	101	30-150						9/18/17 17:24	
Tetrachloro-m-xylene [1]	99.2	30-150						9/18/17 17:24	
Tetrachloro-m-xylene [2]	96.5	30-150						9/18/17 17:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-3

Sampled: 9/7/2017 08:44

Sample ID: 1710243-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-1

Sampled: 9/7/2017 08:47

Sample ID: 1710243-04

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	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.9	30-150							
Decachlorobiphenyl [2]	94.9	30-150							
Tetrachloro-m-xylene [1]	93.4	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-1

Sampled: 9/7/2017 08:47

Sample ID: 1710243-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4900	2100	mg/Kg dry	100		CTDEP ETPH	9/14/17	9/18/17 18:28	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/18/17 18:28	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-1

Sampled: 9/7/2017 08:47

Sample ID: 1710243-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-2

Sampled: 9/7/2017 08:48

Sample ID: 1710243-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(a)anthracene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(a)pyrene	0.93	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(b)fluoranthene	1.4	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(g,h,i)perylene	0.59	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(k)fluoranthene	0.44	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Chrysene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Fluoranthene	1.9	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Indeno(1,2,3-cd)pyrene	0.66	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Phenanthrene	0.85	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Pyrene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5	30.0	30-130			S-07			9/15/17 14:22	
2-Fluorobiphenyl	35.2	30-130						9/15/17 14:22	
p-Terphenyl-d14	39.0	30-130						9/15/17 14:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-2

Sampled: 9/7/2017 08:48

Sample ID: 1710243-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	68.3	30-150							
Decachlorobiphenyl [2]	81.9	30-150							
Tetrachloro-m-xylene [1]	73.8	30-150							
Tetrachloro-m-xylene [2]	70.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-2

Sampled: 9/7/2017 08:48

Sample ID: 1710243-05

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	80.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-3

Sampled: 9/7/2017 08:49

Sample ID: 1710243-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.6	30-150							
Decachlorobiphenyl [2]	92.6	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	106	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-3

Sampled: 9/7/2017 08:49

Sample ID: 1710243-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-1

Sampled: 9/7/2017 08:53

Sample ID: 1710243-07

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	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.0	30-150							
Decachlorobiphenyl [2]	96.5	30-150							
Tetrachloro-m-xylene [1]	95.4	30-150							
Tetrachloro-m-xylene [2]	90.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-1

Sampled: 9/7/2017 08:53

Sample ID: 1710243-07

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	94.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-2

Sampled: 9/7/2017 08:54

Sample ID: 1710243-08

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	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.3	30-150							
Decachlorobiphenyl [2]	86.7	30-150							
Tetrachloro-m-xylene [1]	98.2	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-2

Sampled: 9/7/2017 08:54

Sample ID: 1710243-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-3

Sampled: 9/7/2017 08:55

Sample ID: 1710243-09

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	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.7	30-150							
Decachlorobiphenyl [2]	85.4	30-150							
Tetrachloro-m-xylene [1]	99.0	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-3

Sampled: 9/7/2017 08:55

Sample ID: 1710243-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	21	12	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/17/17 19:08	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	60.2		50-150					9/17/17 19:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-3

Sampled: 9/7/2017 08:55

Sample ID: 1710243-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-1

Sampled: 9/7/2017 09:05

Sample ID: 1710243-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.4	30-150							
Decachlorobiphenyl [2]	82.9	30-150							
Tetrachloro-m-xylene [1]	92.3	30-150							
Tetrachloro-m-xylene [2]	88.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-1

Sampled: 9/7/2017 09:05

Sample ID: 1710243-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	1100	mg/Kg dry	100		CTDEP ETPH	9/14/17	9/18/17 17:16	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/18/17 17:16	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-1

Sampled: 9/7/2017 09:05

Sample ID: 1710243-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-2

Sampled: 9/7/2017 09:06

Sample ID: 1710243-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.7	30-150							
Decachlorobiphenyl [2]	81.4	30-150							
Tetrachloro-m-xylene [1]	79.7	30-150							
Tetrachloro-m-xylene [2]	74.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-2

Sampled: 9/7/2017 09:06

Sample ID: 1710243-11

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	79.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:52	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-3

Sampled: 9/7/2017 09:07

Sample ID: 1710243-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.5	30-150							
Decachlorobiphenyl [2]	85.2	30-150							
Tetrachloro-m-xylene [1]	83.8	30-150							
Tetrachloro-m-xylene [2]	90.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-3

Sampled: 9/7/2017 09:07

Sample ID: 1710243-12

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	80.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-1

Sampled: 9/7/2017 09:11

Sample ID: 1710243-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.9	30-150							
Decachlorobiphenyl [2]	85.1	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	96.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-1

Sampled: 9/7/2017 09:11

Sample ID: 1710243-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1800	570	mg/Kg dry	50		CTDEP ETPH	9/14/17	9/18/17 17:52	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/18/17 17:52	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-1

Sampled: 9/7/2017 09:11

Sample ID: 1710243-13

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	87.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-2

Sampled: 9/7/2017 09:12

Sample ID: 1710243-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150							
Decachlorobiphenyl [2]	89.4	30-150							
Tetrachloro-m-xylene [1]	89.6	30-150							
Tetrachloro-m-xylene [2]	88.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-2

Sampled: 9/7/2017 09:12

Sample ID: 1710243-14

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	83.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-3

Sampled: 9/7/2017 09:13

Sample ID: 1710243-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.5	30-150							
Decachlorobiphenyl [2]	93.0	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-3

Sampled: 9/7/2017 09:13

Sample ID: 1710243-15

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	68.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-1

Sampled: 9/7/2017 09:11

Sample ID: 1710243-16

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	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Acenaphthylene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(a)anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(a)pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(b)fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(g,h,i)perylene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(k)fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Chrysene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Dibenz(a,h)anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Fluorene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Indeno(1,2,3-cd)pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
2-Methylnaphthalene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Naphthalene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Phenanthrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	30.3	30-130						9/15/17 14:47	
2-Fluorobiphenyl	35.2	30-130						9/15/17 14:47	
p-Terphenyl-d14	40.8	30-130						9/15/17 14:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-1

Sampled: 9/7/2017 09:11

Sample ID: 1710243-16

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	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.3	30-150							
Decachlorobiphenyl [2]	85.5	30-150							
Tetrachloro-m-xylene [1]	89.0	30-150							
Tetrachloro-m-xylene [2]	85.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-1

Sampled: 9/7/2017 09:11

Sample ID: 1710243-16

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	87.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-2

Sampled: 9/7/2017 09:12

Sample ID: 1710243-17

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	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.9	30-150							
Decachlorobiphenyl [2]	85.0	30-150							
Tetrachloro-m-xylene [1]	88.1	30-150							
Tetrachloro-m-xylene [2]	92.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-2

Sampled: 9/7/2017 09:12

Sample ID: 1710243-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	61	12	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/17/17 19:26	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	51.8		50-150				9/17/17 19:26		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-2

Sampled: 9/7/2017 09:12

Sample ID: 1710243-17

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	85.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-3

Sampled: 9/7/2017 09:13

Sample ID: 1710243-18

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	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.6	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	95.2	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-3

Sampled: 9/7/2017 09:13

Sample ID: 1710243-18

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	68.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-1

Sampled: 9/7/2017 09:23

Sample ID: 1710243-19

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	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.3	30-150							
Decachlorobiphenyl [2]	81.8	30-150							
Tetrachloro-m-xylene [1]	93.2	30-150							
Tetrachloro-m-xylene [2]	96.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-1

Sampled: 9/7/2017 09:23

Sample ID: 1710243-19

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	320	230	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/18/17 14:53	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/18/17 14:53		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-1

Sampled: 9/7/2017 09:23

Sample ID: 1710243-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-2

Sampled: 9/7/2017 09:24

Sample ID: 1710243-20

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	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.1	30-150							
Decachlorobiphenyl [2]	91.1	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	107	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-2

Sampled: 9/7/2017 09:24

Sample ID: 1710243-20

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	95.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-01 [WS-AOC-15-SO-3-1]	B186235	30.0	2.00	09/14/17
17I0243-04 [WS-AOC-15-SO-6-1]	B186235	30.0	2.00	09/14/17
17I0243-09 [WS-AOC-15-SO-4-3]	B186235	30.0	1.00	09/14/17
17I0243-10 [WS-AOC-15-SO-9-1]	B186235	30.0	1.00	09/14/17
17I0243-13 [WS-AOC-15-SO-10-1]	B186235	30.1	1.00	09/14/17
17I0243-17 [WS-AOC-15-SO-5-2]	B186235	30.1	1.00	09/14/17
17I0243-19 [WS-AOC-15-SO-14-1]	B186235	30.1	1.00	09/14/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0243-01 [WS-AOC-15-SO-3-1]	B186104	09/13/17
17I0243-02 [WS-AOC-15-SO-3-2]	B186104	09/13/17
17I0243-03 [WS-AOC-15-SO-3-3]	B186104	09/13/17
17I0243-04 [WS-AOC-15-SO-6-1]	B186104	09/13/17
17I0243-05 [WS-AOC-15-SO-6-2]	B186104	09/13/17
17I0243-06 [WS-AOC-15-SO-6-3]	B186104	09/13/17
17I0243-07 [WS-AOC-15-SO-4-1]	B186104	09/13/17
17I0243-08 [WS-AOC-15-SO-4-2]	B186104	09/13/17
17I0243-09 [WS-AOC-15-SO-4-3]	B186104	09/13/17
17I0243-10 [WS-AOC-15-SO-9-1]	B186104	09/13/17
17I0243-11 [WS-AOC-15-SO-9-2]	B186104	09/13/17
17I0243-12 [WS-AOC-15-SO-9-3]	B186104	09/13/17
17I0243-13 [WS-AOC-15-SO-10-1]	B186104	09/13/17
17I0243-14 [WS-AOC-15-SO-10-2]	B186104	09/13/17
17I0243-15 [WS-AOC-15-SO-10-3]	B186104	09/13/17
17I0243-16 [WS-AOC-15-SO-5-1]	B186104	09/13/17
17I0243-17 [WS-AOC-15-SO-5-2]	B186104	09/13/17
17I0243-18 [WS-AOC-15-SO-5-3]	B186104	09/13/17
17I0243-19 [WS-AOC-15-SO-14-1]	B186104	09/13/17
17I0243-20 [WS-AOC-15-SO-14-2]	B186104	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-01 [WS-AOC-15-SO-3-1]	B186157	10.1	10.0	09/13/17
17I0243-02 [WS-AOC-15-SO-3-2]	B186157	10.0	10.0	09/13/17
17I0243-03 [WS-AOC-15-SO-3-3]	B186157	10.1	10.0	09/13/17
17I0243-04 [WS-AOC-15-SO-6-1]	B186157	10.0	10.0	09/13/17
17I0243-05 [WS-AOC-15-SO-6-2]	B186157	10.0	10.0	09/13/17
17I0243-06 [WS-AOC-15-SO-6-3]	B186157	10.0	10.0	09/13/17
17I0243-07 [WS-AOC-15-SO-4-1]	B186157	10.1	10.0	09/13/17
17I0243-08 [WS-AOC-15-SO-4-2]	B186157	10.0	10.0	09/13/17
17I0243-09 [WS-AOC-15-SO-4-3]	B186157	10.0	10.0	09/13/17
17I0243-10 [WS-AOC-15-SO-9-1]	B186157	10.1	10.0	09/13/17
17I0243-11 [WS-AOC-15-SO-9-2]	B186157	10.0	10.0	09/13/17
17I0243-12 [WS-AOC-15-SO-9-3]	B186157	10.0	10.0	09/13/17
17I0243-13 [WS-AOC-15-SO-10-1]	B186157	10.0	10.0	09/13/17
17I0243-14 [WS-AOC-15-SO-10-2]	B186157	10.0	10.0	09/13/17
17I0243-15 [WS-AOC-15-SO-10-3]	B186157	10.0	10.0	09/13/17
17I0243-16 [WS-AOC-15-SO-5-1]	B186157	10.0	10.0	09/13/17
17I0243-17 [WS-AOC-15-SO-5-2]	B186157	10.0	10.0	09/13/17
17I0243-18 [WS-AOC-15-SO-5-3]	B186157	10.1	10.0	09/13/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-19 [WS-AOC-15-SO-14-1]	B186157	10.0	10.0	09/13/17
17I0243-20 [WS-AOC-15-SO-14-2]	B186157	10.0	10.0	09/13/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-05 [WS-AOC-15-SO-6-2]	B186232	30.7	1.00	09/14/17
17I0243-16 [WS-AOC-15-SO-5-1]	B186232	30.0	2.00	09/14/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186232 - SW-846 3546
Blank (B186232-BLK1)

Prepared: 09/14/17 Analyzed: 09/15/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.64		mg/Kg wet	3.33		49.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.01		mg/Kg wet	3.33		60.2	30-130			
Surrogate: p-Terphenyl-d14	3.08		mg/Kg wet	3.33		92.3	30-130			

LCS (B186232-BS1)

Prepared: 09/14/17 Analyzed: 09/15/17

Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Benzo(a)anthracene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.3	40-140			
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140			
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: p-Terphenyl-d14	3.10		mg/Kg wet	3.33		93.1	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186232 - SW-846 3546										
LCS Dup (B186232-BSD1)					Prepared: 09/14/17 Analyzed: 09/15/17					
Acenaphthene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140	5.02	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	5.82	30	
Anthracene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140	3.90	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	3.96	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	5.12	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	4.40	30	
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	4.56	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	4.54	30	
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	3.07	30	
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	4.28	30	
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	1.60	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	5.02	30	
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	7.08	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	14.6	30	
Naphthalene	0.889	0.17	mg/Kg wet	1.67		53.4	40-140	19.5	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	3.06	30	
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	3.90	30	
Surrogate: Nitrobenzene-d5	1.85		mg/Kg wet	3.33		55.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: p-Terphenyl-d14	2.98		mg/Kg wet	3.33		89.4	30-130			

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 B186157 - SW-846 3540C
Blank (B186157-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

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	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			

LCS (B186157-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.5	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.9	40-140			
Surrogate: Decachlorobiphenyl	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.217		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		75.1	30-150			

LCS Dup (B186157-BSD1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.9	40-140	3.04	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.5	40-140	7.61	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		92.2	40-140	2.80	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.0	40-140	4.39	30	
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.6	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186157 - SW-846 3540C

Matrix Spike (B186157-MS1)

Source: 17I0243-13

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.092	mg/Kg dry	0.230	ND	81.0	40-140			
Aroclor-1016 [2C]	0.16	0.092	mg/Kg dry	0.230	ND	71.4	40-140			
Aroclor-1260	0.14	0.092	mg/Kg dry	0.230	ND	59.3	40-140			
Aroclor-1260 [2C]	0.13	0.092	mg/Kg dry	0.230	ND	56.6	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg dry	0.230		73.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg dry	0.230		82.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.206		mg/Kg dry	0.230		89.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg dry	0.230		87.1	30-150			

Matrix Spike Dup (B186157-MSD1)

Source: 17I0243-13

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.092	mg/Kg dry	0.230	ND	84.4	40-140	4.13	50	
Aroclor-1016 [2C]	0.16	0.092	mg/Kg dry	0.230	ND	71.5	40-140	0.126	50	
Aroclor-1260	0.14	0.092	mg/Kg dry	0.230	ND	59.3	40-140	0.0641	50	
Aroclor-1260 [2C]	0.13	0.092	mg/Kg dry	0.230	ND	57.0	40-140	0.757	50	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg dry	0.230		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg dry	0.230		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.230		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.216		mg/Kg dry	0.230		94.2	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186235 - SW-846 3546										
Blank (B186235-BLK1)										
					Prepared: 09/14/17 Analyzed: 09/17/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.64		mg/Kg wet	3.33		79.2	50-150			
LCS (B186235-BS1)										
					Prepared: 09/14/17 Analyzed: 09/17/17					
CT ETPH	22.7	10	mg/Kg wet	33.3		68.1	60-120			
Surrogate: o-Terphenyl	2.98		mg/Kg wet	3.33		89.5	50-150			
LCS Dup (B186235-BSD1)										
					Prepared: 09/14/17 Analyzed: 09/17/17					
CT ETPH	23.1	10	mg/Kg wet	33.3		69.2	60-120	1.54	30	
Surrogate: o-Terphenyl	2.97		mg/Kg wet	3.33		89.2	50-150			
Matrix Spike (B186235-MS1)										
			Source: 17I0243-13		Prepared: 09/14/17 Analyzed: 09/19/17					
CT ETPH	1960	570	mg/Kg dry	38.3	1810	386	*	50-150		MS-19
Surrogate: o-Terphenyl	0.00		mg/Kg dry	3.83			*	50-150		S-01
Matrix Spike Dup (B186235-MSD1)										
			Source: 17I0243-13		Prepared: 09/14/17 Analyzed: 09/19/17					
CT ETPH	1590	570	mg/Kg dry	38.1	1810	-562	*	50-150	20.4	30 MS-19
Surrogate: o-Terphenyl	0.00		mg/Kg dry	3.81			*	50-150		S-01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186104 - % Solids										
Duplicate (B186104-DUP5)	Source: 17I0243-10			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	89.1		% Wt		91.3			2.44	20	
Duplicate (B186104-DUP6)	Source: 17I0243-11			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	76.4		% Wt		79.7			4.23	20	
Duplicate (B186104-DUP7)	Source: 17I0243-12			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	78.8		% Wt		80.3			1.89	20	
Duplicate (B186104-DUP8)	Source: 17I0243-13			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	86.7		% Wt		87.1			0.460	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**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.
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.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume / Will Sirotak

Requested Turnaround Time:
 7-Day ☒ 10-Day ☐
 Other: ☐ 5-day ☐
Analysis Requested:
 1-Day ☐ 3-Day ☐
 2-Day ☐ 4-Day ☐
Format: PDF ☒ EXCEL ☒
Other:
 Enhanced Data Package Required: ☐
 Email To: beeler@wseinc.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-15-50-9-2	9/17/17	0900		X	S	U
12	WS-PDC-15-50-9-3	9/17/17	0907		X	S	U
13	WS-PDC-15-50-10-1	9/17/17	0911		X	S	U
14	WS-PDC-15-50-10-2	9/17/17	0912		X	S	U
15	WS-PDC-15-50-10-3	9/17/17	0913		X	S	U
16	WS-PDC-15-50-5-1	9/17/17	0911		X	S	U
17	WS-PDC-15-50-5-2	9/17/17	0912		X	S	U
18	WS-PDC-15-50-5-3	9/17/17	0913		X	S	U
19	WS-PDC-15-50-14-1	9/17/17	0923		X	S	U
20	WS-PDC-15-50-14-2	9/17/17	0924		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Waste analysis WS-PDC-15-50-10-1 for MSW also for EPA/PCBS

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *[Signature]* Date/Time: 9/17/17 1510
Received by: (signature) *[Signature]* Date/Time: 9/17/17 1510
Relinquished by: (signature) *[Signature]* Date/Time: 9/17/17 1510
Received by: (signature) *[Signature]* Date/Time: 9/17/17 1510
Relinquished by: (signature) *[Signature]* Date/Time: 9/17/17 1510
Received by: (signature) *[Signature]* Date/Time: 9/17/17 1510

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

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 Engineers

Received By WCG Date 9/7/17 Time 17:05

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0°C/2.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? +

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis + Sampler Name T
pertinent Information? Project + ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091717.SEC\A0917007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
 Data File Name A0917007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	597076	636547	-6
c - 10	1.62	605287	636547	-5
c - 12	2.34	626376	636547	-2
c - 14	3.01	640333	636547	1
c - 16	3.61	656511	636547	3
c - 18	4.23	650510	636547	2
o-Terphenyl	4.51	726871	636547	
c - 20	4.83	660040	636547	4
c - 22	5.34	670890	636547	5
c - 24	5.77	626137	636547	-2
c - 26	6.16	658819	636547	3
c - 28	6.52	649880	636547	2
c - 30	6.85	641260	636547	1
c - 32	7.16	621701	636547	-2
c - 34	7.45	622676	636547	-2
c - 36	7.77	620710	636547	-2

* One compound allowed %D <= 50%

Samples

17I0572-03
 17I0243-09
 17I0243-17

D:\HPCHEM\1\DATA\A091717.SEC\A0917041.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
 Data File Name A0917041.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	639717	689121	-7
c - 10	1.63	654249	689121	-5
c - 12	2.35	680470	689121	-1
c - 14	3.01	696715	689121	1
c - 16	3.61	713676	689121	4
c - 18	4.23	705868	689121	2
o-Terphenyl	4.51	787004	689121	
c - 20	4.83	715274	689121	4
c - 22	5.34	725953	689121	5
c - 24	5.77	676931	689121	-2
c - 26	6.16	711325	689121	3
c - 28	6.52	701176	689121	2
c - 30	6.85	692215	689121	0
c - 32	7.16	672885	689121	-2
c - 34	7.45	675274	689121	-2
c - 36	7.77	675089	689121	-2

* One compound allowed %D <= 50%

Samples

17I0350-01
 17I0374-02
 17I0374-04
 17I0325-03
 17I0325-04

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0243

Laboratory Sample ID(s):

17I0243-01 thru 17I0243-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/19/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 20, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0244

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0244-01	7
17I0244-02	9
17I0244-03	12
17I0244-04	14
17I0244-05	16
17I0244-06	19
17I0244-07	21
17I0244-08	23
17I0244-09	26
17I0244-10	28
17I0244-11	30
17I0244-12	33
17I0244-13	36
17I0244-14	38
17I0244-15	41
17I0244-16	43
17I0244-17	45
17I0244-18	48
17I0244-19	51
17I0244-20	53
Sample Preparation Information	56
QC Data	58

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS	58
B186035	58
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	60
B186068	60
Petroleum Hydrocarbons Analyses	62
B186230	62
Flag/Qualifier Summary	63
Certifications	64
Chain of Custody/Sample Receipt	66

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710244

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-14-3	1710244-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-11-1	1710244-02	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-11-2	1710244-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-11-3	1710244-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-13-1	1710244-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-13-2	1710244-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-13-3	1710244-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-12-1	1710244-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-12-2	1710244-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-12-3	1710244-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-22-1	1710244-11	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-22-2	1710244-12	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-22-3	1710244-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-16-1	1710244-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-16-2	1710244-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-16-3	1710244-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-23-1	1710244-17	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710244

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-23-2	1710244-18	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-23-3	1710244-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-17-1	1710244-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

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

17I0244-05[WS-AOC-15-SO-13-1], 17I0244-14[WS-AOC-15-SO-16-1], 17I0244-17[WS-AOC-15-SO-23-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Tod Kopyscinski", written in a cursive style.

Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-3

Sampled: 9/7/2017 09:25

Sample ID: 1710244-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.5	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	83.4	30-150							
Tetrachloro-m-xylene [2]	84.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-3

Sampled: 9/7/2017 09:25

Sample ID: 1710244-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1

Sampled: 9/7/2017 09:20

Sample ID: 1710244-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.0	30-150							
Decachlorobiphenyl [2]	75.2	30-150							
Tetrachloro-m-xylene [1]	77.4	30-150							
Tetrachloro-m-xylene [2]	73.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1

Sampled: 9/7/2017 09:20

Sample ID: 1710244-02

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	480	110	mg/Kg dry	10		CTDEP ETPH	9/14/17	9/20/17 2:01	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	60.2		50-150					9/20/17 2:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1

Sampled: 9/7/2017 09:20

Sample ID: 1710244-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-2

Sampled: 9/7/2017 09:21

Sample ID: 1710244-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.7	30-150						9/19/17 16:11	
Decachlorobiphenyl [2]	81.9	30-150						9/19/17 16:11	
Tetrachloro-m-xylene [1]	95.5	30-150						9/19/17 16:11	
Tetrachloro-m-xylene [2]	90.1	30-150						9/19/17 16:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-2

Sampled: 9/7/2017 09:21

Sample ID: 1710244-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-3

Sampled: 9/7/2017 09:22

Sample ID: 1710244-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150							
Decachlorobiphenyl [2]	98.4	30-150							
Tetrachloro-m-xylene [1]	86.1	30-150							
Tetrachloro-m-xylene [2]	83.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-3

Sampled: 9/7/2017 09:22

Sample ID: 1710244-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1

Sampled: 9/7/2017 09:33

Sample ID: 1710244-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.2	30-150							
Decachlorobiphenyl [2]	109	30-150							
Tetrachloro-m-xylene [1]	94.4	30-150							
Tetrachloro-m-xylene [2]	91.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1

Sampled: 9/7/2017 09:33

Sample ID: 1710244-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	620	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 17:18	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/19/17 17:18	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1

Sampled: 9/7/2017 09:33

Sample ID: 1710244-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.6	30-150							
Decachlorobiphenyl [2]	78.3	30-150							
Tetrachloro-m-xylene [1]	79.4	30-150							
Tetrachloro-m-xylene [2]	79.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-3

Sampled: 9/7/2017 09:40

Sample ID: 1710244-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.2	30-150							
Decachlorobiphenyl [2]	91.8	30-150							
Tetrachloro-m-xylene [1]	92.4	30-150							
Tetrachloro-m-xylene [2]	90.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-3

Sampled: 9/7/2017 09:40

Sample ID: 1710244-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1

Sampled: 9/7/2017 09:37

Sample ID: 1710244-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.0	30-150							
Decachlorobiphenyl [2]	91.6	30-150							
Tetrachloro-m-xylene [1]	88.7	30-150							
Tetrachloro-m-xylene [2]	84.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1

Sampled: 9/7/2017 09:37

Sample ID: 1710244-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	270	mg/Kg dry	25		CTDEP ETPH	9/14/17	9/20/17 13:46	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	62.1		50-150					9/20/17 13:46	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1

Sampled: 9/7/2017 09:37

Sample ID: 1710244-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.3	30-150							
Decachlorobiphenyl [2]	87.8	30-150							
Tetrachloro-m-xylene [1]	90.4	30-150							
Tetrachloro-m-xylene [2]	90.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-3

Sampled: 9/7/2017 09:39

Sample ID: 1710244-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.8	30-150							
Decachlorobiphenyl [2]	103	30-150							
Tetrachloro-m-xylene [1]	96.0	30-150							
Tetrachloro-m-xylene [2]	96.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-3

Sampled: 9/7/2017 09:39

Sample ID: 1710244-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1

Sampled: 9/7/2017 10:07

Sample ID: 1710244-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.5	30-150							
Decachlorobiphenyl [2]	90.9	30-150							
Tetrachloro-m-xylene [1]	91.7	30-150							
Tetrachloro-m-xylene [2]	87.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1

Sampled: 9/7/2017 10:07

Sample ID: 1710244-11

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	540	110	mg/Kg dry	10		CTDEP ETPH	9/14/17	9/20/17 2:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	57.9		50-150					9/20/17 2:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1

Sampled: 9/7/2017 10:07

Sample ID: 1710244-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2

Sampled: 9/7/2017 10:08

Sample ID: 1710244-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(a)anthracene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(a)pyrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(b)fluoranthene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(g,h,i)perylene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Chrysene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Fluoranthene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Indeno(1,2,3-cd)pyrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Phenanthrene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Pyrene	0.66	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	58.7	30-130							
2-Fluorobiphenyl	64.7	30-130							
p-Terphenyl-d14	66.0	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2

Sampled: 9/7/2017 10:08

Sample ID: 1710244-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150							
Decachlorobiphenyl [2]	92.6	30-150							
Tetrachloro-m-xylene [1]	80.2	30-150							
Tetrachloro-m-xylene [2]	77.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2

Sampled: 9/7/2017 10:08

Sample ID: 1710244-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-3

Sampled: 9/7/2017 10:09

Sample ID: 1710244-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.3	30-150							
Decachlorobiphenyl [2]	99.3	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	98.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-3

Sampled: 9/7/2017 10:09

Sample ID: 1710244-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1

Sampled: 9/7/2017 10:05

Sample ID: 1710244-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	101	30-150						9/19/17 20:11	
Decachlorobiphenyl [2]	113	30-150						9/19/17 20:11	
Tetrachloro-m-xylene [1]	104	30-150						9/19/17 20:11	
Tetrachloro-m-xylene [2]	103	30-150						9/19/17 20:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1

Sampled: 9/7/2017 10:05

Sample ID: 1710244-14

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	630	430	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 18:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/19/17 18:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1

Sampled: 9/7/2017 10:05

Sample ID: 1710244-14

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	93.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-2

Sampled: 9/7/2017 10:06

Sample ID: 1710244-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.2	30-150							
Decachlorobiphenyl [2]	87.5	30-150							
Tetrachloro-m-xylene [1]	95.3	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-2

Sampled: 9/7/2017 10:06

Sample ID: 1710244-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-3

Sampled: 9/7/2017 10:07

Sample ID: 1710244-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.3	30-150							
Decachlorobiphenyl [2]	96.0	30-150							
Tetrachloro-m-xylene [1]	93.9	30-150							
Tetrachloro-m-xylene [2]	93.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-3

Sampled: 9/7/2017 10:07

Sample ID: 1710244-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1

Sampled: 9/7/2017 10:25

Sample ID: 1710244-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.1	30-150						9/19/17 21:03	
Decachlorobiphenyl [2]	84.7	30-150						9/19/17 21:03	
Tetrachloro-m-xylene [1]	90.0	30-150						9/19/17 21:03	
Tetrachloro-m-xylene [2]	86.9	30-150						9/19/17 21:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1

Sampled: 9/7/2017 10:25

Sample ID: 1710244-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1500	550	mg/Kg dry	50		CTDEP ETPH	9/14/17	9/20/17 14:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 14:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1

Sampled: 9/7/2017 10:25

Sample ID: 1710244-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2

Sampled: 9/7/2017 10:26

Sample ID: 1710244-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(a)anthracene	0.40	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(a)pyrene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(b)fluoranthene	0.51	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(g,h,i)perylene	0.25	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Chrysene	0.55	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Fluoranthene	0.82	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Indeno(1,2,3-cd)pyrene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Naphthalene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Phenanthrene	0.79	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Pyrene	0.64	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	61.5	30-130						9/14/17 13:56	
2-Fluorobiphenyl	68.8	30-130						9/14/17 13:56	
p-Terphenyl-d14	67.8	30-130						9/14/17 13:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2

Sampled: 9/7/2017 10:26

Sample ID: 1710244-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.3	30-150							
Decachlorobiphenyl [2]	93.3	30-150							
Tetrachloro-m-xylene [1]	84.9	30-150							
Tetrachloro-m-xylene [2]	82.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2

Sampled: 9/7/2017 10:26

Sample ID: 1710244-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-3

Sampled: 9/7/2017 10:27

Sample ID: 1710244-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.8	30-150							
Decachlorobiphenyl [2]	94.0	30-150							
Tetrachloro-m-xylene [1]	92.7	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-3

Sampled: 9/7/2017 10:27

Sample ID: 1710244-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1

Sampled: 9/7/2017 10:43

Sample ID: 1710244-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.7	30-150						9/19/17 21:55	
Decachlorobiphenyl [2]	96.5	30-150						9/19/17 21:55	
Tetrachloro-m-xylene [1]	95.7	30-150						9/19/17 21:55	
Tetrachloro-m-xylene [2]	94.1	30-150						9/19/17 21:55	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1

Sampled: 9/7/2017 10:43

Sample ID: 1710244-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	78	11	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 20:50	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	63.7		50-150					9/18/17 20:50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1

Sampled: 9/7/2017 10:43

Sample ID: 1710244-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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
17I0244-02 [WS-AOC-15-SO-11-1]	B186230	30.1	1.00	09/14/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186230	30.0	2.00	09/14/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186230	30.0	1.00	09/14/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186230	30.0	1.00	09/14/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186230	30.0	2.00	09/14/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186230	30.1	1.00	09/14/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186230	30.0	1.00	09/14/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0244-01 [WS-AOC-15-SO-14-3]	B186104	09/13/17
17I0244-02 [WS-AOC-15-SO-11-1]	B186104	09/13/17
17I0244-03 [WS-AOC-15-SO-11-2]	B186104	09/13/17
17I0244-04 [WS-AOC-15-SO-11-3]	B186104	09/13/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186104	09/13/17
17I0244-06 [WS-AOC-15-SO-13-2]	B186104	09/13/17
17I0244-07 [WS-AOC-15-SO-13-3]	B186104	09/13/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186104	09/13/17
17I0244-09 [WS-AOC-15-SO-12-2]	B186104	09/13/17
17I0244-10 [WS-AOC-15-SO-12-3]	B186104	09/13/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186104	09/13/17
17I0244-12 [WS-AOC-15-SO-22-2]	B186104	09/13/17
17I0244-13 [WS-AOC-15-SO-22-3]	B186104	09/13/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186104	09/13/17
17I0244-15 [WS-AOC-15-SO-16-2]	B186104	09/13/17
17I0244-16 [WS-AOC-15-SO-16-3]	B186104	09/13/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186104	09/13/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186104	09/13/17
17I0244-19 [WS-AOC-15-SO-23-3]	B186104	09/13/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186104	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-01 [WS-AOC-15-SO-14-3]	B186068	10.0	10.0	09/12/17
17I0244-02 [WS-AOC-15-SO-11-1]	B186068	10.0	10.0	09/12/17
17I0244-03 [WS-AOC-15-SO-11-2]	B186068	10.0	10.0	09/12/17
17I0244-04 [WS-AOC-15-SO-11-3]	B186068	10.0	10.0	09/12/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186068	10.0	10.0	09/12/17
17I0244-06 [WS-AOC-15-SO-13-2]	B186068	10.0	10.0	09/12/17
17I0244-07 [WS-AOC-15-SO-13-3]	B186068	10.0	10.0	09/12/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186068	10.0	10.0	09/12/17
17I0244-09 [WS-AOC-15-SO-12-2]	B186068	10.0	10.0	09/12/17
17I0244-10 [WS-AOC-15-SO-12-3]	B186068	10.0	10.0	09/12/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186068	10.0	10.0	09/12/17
17I0244-12 [WS-AOC-15-SO-22-2]	B186068	10.0	10.0	09/12/17
17I0244-13 [WS-AOC-15-SO-22-3]	B186068	10.0	10.0	09/12/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186068	10.0	10.0	09/12/17
17I0244-15 [WS-AOC-15-SO-16-2]	B186068	10.0	10.0	09/12/17
17I0244-16 [WS-AOC-15-SO-16-3]	B186068	10.0	10.0	09/12/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186068	10.0	10.0	09/12/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186068	10.0	10.0	09/12/17

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
17I0244-19 [WS-AOC-15-SO-23-3]	B186068	10.0	10.0	09/12/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186068	10.0	10.0	09/12/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-12 [WS-AOC-15-SO-22-2]	B186035	30.0	1.00	09/12/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186035	30.0	1.00	09/12/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186035 - SW-846 3546										
Blank (B186035-BLK1)										
Prepared: 09/12/17 Analyzed: 09/13/17										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.2	30-130			
Surrogate: p-Terphenyl-d14	3.30		mg/Kg wet	3.33		98.9	30-130			
LCS (B186035-BS1)										
Prepared: 09/12/17 Analyzed: 09/13/17										
Acenaphthene	0.931	0.17	mg/Kg wet	1.67		55.9	40-140			
Acenaphthylene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(a)pyrene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Fluorene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.47		mg/Kg wet	3.33		74.1	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.6	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186035 - SW-846 3546										
LCS Dup (B186035-BSD1)					Prepared: 09/12/17 Analyzed: 09/13/17					
Acenaphthene	0.973	0.17	mg/Kg wet	1.67		58.4	40-140	4.34	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	7.44	30	
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	6.92	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	5.73	30	
Benzo(a)pyrene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	9.94	30	
Benzo(b)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	6.93	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	8.41	30	
Benzo(k)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140	7.83	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	6.68	30	
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	7.86	30	
Fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140	6.79	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	7.79	30	
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140	8.75	30	
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140	7.39	30	
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	4.48	30	
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	4.22	30	
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	5.80	30	
Surrogate: Nitrobenzene-d5	2.37		mg/Kg wet	3.33		71.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.6	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		90.1	30-130			

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 B186068 - SW-846 3540C
Blank (B186068-BLK1)

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.221		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.136		mg/Kg wet	0.200		67.8	30-150			

LCS (B186068-BS1)

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.4	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		67.3	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.1	40-140			
Surrogate: Decachlorobiphenyl	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.132		mg/Kg wet	0.200		66.0	30-150			

LCS Dup (B186068-BSD1)

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.7	40-140	8.16	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140	9.86	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.5	40-140	7.23	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.9	40-140	7.08	30	
Surrogate: Decachlorobiphenyl	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		70.2	30-150			

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 B186068 - SW-846 3540C

Matrix Spike (B186068-MS1)

Source: 17I0244-01

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	0.20	0.089	mg/Kg dry	0.224	ND	90.5	40-140			
Aroclor-1016 [2C]	0.18	0.089	mg/Kg dry	0.224	ND	80.6	40-140			
Aroclor-1260	0.17	0.089	mg/Kg dry	0.224	ND	76.0	40-140			
Aroclor-1260 [2C]	0.17	0.089	mg/Kg dry	0.224	ND	76.1	40-140			
Surrogate: Decachlorobiphenyl	0.189		mg/Kg dry	0.224		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg dry	0.224		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.211		mg/Kg dry	0.224		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg dry	0.224		91.9	30-150			

Matrix Spike Dup (B186068-MSD1)

Source: 17I0244-01

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	0.20	0.089	mg/Kg dry	0.224	ND	91.3	40-140	0.955	50	
Aroclor-1016 [2C]	0.19	0.089	mg/Kg dry	0.224	ND	83.4	40-140	3.34	50	
Aroclor-1260	0.18	0.089	mg/Kg dry	0.224	ND	81.6	40-140	7.10	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.224	ND	85.2	40-140	11.3	50	
Surrogate: Decachlorobiphenyl	0.200		mg/Kg dry	0.224		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.220		mg/Kg dry	0.224		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg dry	0.224		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg dry	0.224		91.7	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186230 - SW-846 3546
Blank (B186230-BLK1)

Prepared: 09/14/17 Analyzed: 09/15/17

CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.9	50-150			

LCS (B186230-BS1)

Prepared: 09/14/17 Analyzed: 09/15/17

CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	2.89		mg/Kg wet	3.33		86.7	50-150			

LCS Dup (B186230-BSD1)

Prepared: 09/14/17 Analyzed: 09/15/17

CT ETPH	26.1	10	mg/Kg wet	33.3		78.4	60-120	3.81	30	
Surrogate: o-Terphenyl	3.02		mg/Kg wet	3.33		90.6	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

English Station

510 Grand Ave, New Haven, CT

Project Number: 2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak



Requested Turnaround Time

7-Day ☒ 10-Day ☐Other: 5-day ☐

Rush Approval Required

1-Day ☐ 3-Day ☐2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☒ EXCEL ☒Other: Enhanced Data Package Required: ☐

Email To: beeler@wseinc.com

Fax To #:

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
ANALYSIS REQUESTED																																																																																																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Matrix Codes:																																																																																																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Preservation Codes:																																																																																																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Container Codes:																																																																																																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Comments:																																																																																																			


 Phone: 413-525-2332
 Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume / Will Sirotnak

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	5-Day ☐
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADC-15-SD-22-1	9/7/17	10:07		X	S	U
12	WS-ADC-15-SD-22-2	9/7/17	10:08		X	S	U
13	WS-ADC-15-SD-22-3	9/7/17	10:09		X	S	U
14	WS-ADC-15-SD-16-1	9/7/17	10:05		X	S	U
15	WS-ADC-15-SD-16-2	9/7/17	10:06		X	S	U
16	WS-ADC-15-SD-16-3	9/7/17	10:07		X	S	U
17	WS-ADC-15-SD-23-1	9/7/17	10:25		X	S	U
18	WS-ADC-15-SD-23-2	9/7/17	10:26		X	S	U
19	WS-ADC-15-SD-23-3	9/7/17	10:27		X	S	U
20	WS-ADC-15-SD-17-1	9/7/17	10:43		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/7/17 15:10	Detection Limit Requirements MA CT Other:
Received by: (signature)	Date/Time: 9/14/17 15:00	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 9-7-17 4:00	
Relinquished by: (signature)	Date/Time: 9-7-17 5:00	Program Information ☐ MCP Analytical Certification Form Required ☒ RCP Analysis Certification Form Required ☐ MA State DW Form Required PWSID # _____
Received by: (signature)	Date/Time: 9/21/17 17:07	

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

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 Engineers

Received By WCC Date 9/7/17 Time 17:05

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0/2.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear <u>20</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919034.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples

17I0380-07
 17I0380-08
 17I0408-01
 17I0408-02
 17I0408-03
 17I0408-04
 17I0408-05
 17I0408-06
 17I0408-07
 17I0408-08
 17I0539-06
 17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919080.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples

17I0719-04
 17I0719-07
 17I0719-04
 17I0719-08@20X
 17I0719-09@10X
 17I0241-16@5X
 17I0244-11@10X
 17I0317-01@5X
 17I0317-08@5X
 17I0317-12@5X
 17I0317-16@5X
 17I0317-20@5X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919165.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919165.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581953	610650	-5
c - 10	1.62	593472	610650	-3
c - 12	2.34	610263	610650	0
c - 14	3.01	616782	610650	1
c - 16	3.61	626257	610650	3
c - 18	4.23	613483	610650	0
o-Terphenyl	4.51	680975	610650	
c - 20	4.83	616619	610650	1
c - 22	5.33	622698	610650	2
c - 24	5.77	580341	610650	-5
c - 26	6.16	612913	610650	0
c - 28	6.52	610060	610650	0
c - 30	6.85	612659	610650	0
c - 32	7.16	604431	610650	-1
c - 34	7.45	632261	610650	4
c - 36	7.76	625559	610650	2

* One compound allowed %D <= 50%

Samples

1710244-08@25X
 1710244-17@50X
 1710531-05@10X
 1710242-18@5X

D:\HPCHEM\1\DATA\A091917\A0919168.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919168.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	558217	618025	-10
c - 10	1.64	570347	618025	-8
c - 12	2.37	590423	618025	-4
c - 14	3.04	604014	618025	-2
c - 16	3.65	622199	618025	1
c - 18	4.28	620256	618025	0
o-Terphenyl	4.56	698283	618025	
c - 20	4.89	633684	618025	3
c - 22	5.39	649827	618025	5
c - 24	5.83	613392	618025	-1
c - 26	6.23	650665	618025	5
c - 28	6.59	645040	618025	4
c - 30	6.92	639031	618025	3
c - 32	7.23	621839	618025	1
c - 34	7.53	625161	618025	1
c - 36	7.87	626287	618025	1

* One compound allowed %D <= 50%

Samples

17I0539-05@5X
 17I0319-04@25X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0244

Laboratory Sample ID(s):

17I0244-01 thru 17I0244-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Laboratory Director
Printed Name: Tod E. Kopyscinski
Date: 09/20/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 20, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0317

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0317-01	7
17I0317-02	10
17I0317-03	12
17I0317-04	14
17I0317-05	17
17I0317-06	19
17I0317-07	21
17I0317-08	23
17I0317-09	26
17I0317-10	28
17I0317-11	30
17I0317-12	32
17I0317-13	35
17I0317-14	37
17I0317-15	39
17I0317-16	41
17I0317-17	44
17I0317-18	46
17I0317-19	48
17I0317-20	50
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B186360	55
Petroleum Hydrocarbons Analyses	58
B186332	58
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	59
B186207	59
Dual Column RPD Report	60
Flag/Qualifier Summary	67
Certifications	68
Chain of Custody/Sample Receipt	69

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-35-1	1710317-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-2	1710317-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-3	1710317-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-1	1710317-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-2	1710317-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-3	1710317-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-1	1710317-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-2	1710317-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-3	1710317-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-4	1710317-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-1	1710317-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-2	1710317-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-3	1710317-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-4	1710317-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-1	1710317-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-2	1710317-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-3	1710317-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-4	1710317-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-5-1	1710317-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-5-2	1710317-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH**Qualifications:****MS-09**

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

17I0317-12[WS-AOC-6-SO-6-2], B186332-MS1, B186332-MSD1

S-23

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:**o-Terphenyl**

B186332-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	97.2	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	109	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	63.6		50-150			9/20/17 3:12			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.4	30-150							
Decachlorobiphenyl [2]	91.6	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.2	30-150							
Decachlorobiphenyl [2]	90.3	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	108	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	107	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	83	14	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 1:51	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	67.9		50-150					9/19/17 1:51	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.2	30-150							
Decachlorobiphenyl [2]	78.9	30-150							
Tetrachloro-m-xylene [1]	85.5	30-150							
Tetrachloro-m-xylene [2]	87.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	102	30-150							
Decachlorobiphenyl [2]	94.9	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1260 [1]	0.18	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1268 [1]	0.15	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	102	30-150						9/19/17 18:47	
Decachlorobiphenyl [2]	106	30-150						9/19/17 18:47	
Tetrachloro-m-xylene [1]	104	30-150						9/19/17 18:47	
Tetrachloro-m-xylene [2]	103	30-150						9/19/17 18:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.2	30-150							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	99.7	30-150							
Tetrachloro-m-xylene [2]	98.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	56.4		50-150					9/20/17 3:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.0	30-150							
Decachlorobiphenyl [2]	124	30-150							
Tetrachloro-m-xylene [1]	84.3	30-150							
Tetrachloro-m-xylene [2]	89.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.1	30-150						9/19/17 19:40	
Decachlorobiphenyl [2]	107	30-150						9/19/17 19:40	
Tetrachloro-m-xylene [1]	87.5	30-150						9/19/17 19:40	
Tetrachloro-m-xylene [2]	90.4	30-150						9/19/17 19:40	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1254 [1]	0.14	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.7	30-150							
Decachlorobiphenyl [2]	88.7	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	95.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1268 [1]	0.13	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.4	30-150							
Decachlorobiphenyl [2]	94.6	30-150							
Tetrachloro-m-xylene [1]	95.9	30-150							
Tetrachloro-m-xylene [2]	97.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	460	57	mg/Kg dry	5	MS-09	CTDEP ETPH	9/15/17	9/20/17 3:47	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.2		50-150				9/20/17 3:47		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.2	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	95.8	30-150							
Tetrachloro-m-xylene [1]	96.2	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1254 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1260 [1]	0.78	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1268 [1]	2.7	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	148	30-150						9/20/17 8:58	
Decachlorobiphenyl [2]	125	30-150						9/20/17 8:58	
Tetrachloro-m-xylene [1]	115	30-150						9/20/17 8:58	
Tetrachloro-m-xylene [2]	110	30-150						9/20/17 8:58	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.7	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	96.8	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	430	56	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:05	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	82.4		50-150					9/20/17 4:05	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.5	30-150							
Decachlorobiphenyl [2]	95.9	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1268 [1]	0.13	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.3	30-150							
Decachlorobiphenyl [2]	96.6	30-150							
Tetrachloro-m-xylene [1]	84.6	30-150							
Tetrachloro-m-xylene [2]	90.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1260 [1]	0.14	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1268 [1]	0.16	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.6	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	96.7	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1260 [2]	0.14	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1268 [1]	0.13	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	99.7	30-150							
Decachlorobiphenyl [2]	96.4	30-150							
Tetrachloro-m-xylene [1]	99.3	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	57	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	70.1		50-150					9/20/17 4:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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
17I0317-01 [WS-AOC-15-SO-35-1]	B186332	30.1	1.00	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186332	30.1	1.00	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186332	30.0	1.00	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186332	30.0	1.00	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186332	30.0	1.00	09/15/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186207	09/14/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186207	09/14/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186207	09/14/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186207	09/14/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186207	09/14/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186207	09/14/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186207	09/14/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186207	09/14/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186207	09/14/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186207	09/14/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186207	09/14/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186207	09/14/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186207	09/14/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186207	09/14/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186207	09/14/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186207	09/14/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186207	09/14/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186207	09/14/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186207	09/14/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186360	10.8	10.0	09/15/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186360	10.0	10.0	09/15/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186360	10.5	10.0	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186360	10.8	10.0	09/15/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186360	10.4	10.0	09/15/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186360	10.6	10.0	09/15/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186360	10.2	10.0	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186360	10.0	10.0	09/15/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186360	10.1	10.0	09/15/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186360	10.2	10.0	09/15/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186360	10.5	10.0	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186360	10.5	10.0	09/15/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186360	10.5	10.0	09/15/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186360	10.3	10.0	09/15/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186360	10.6	10.0	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186360	10.2	10.0	09/15/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186360	10.7	10.0	09/15/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186360	10.2	10.0	09/15/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186360	10.0	10.0	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-20 [WS-AOC-6-SO-5-2]	B186360	10.4	10.0	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186360 - SW-846 3540C
Blank (B186360-BLK1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg wet	0.200		106	30-150			

LCS (B186360-BS1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Surrogate: Decachlorobiphenyl	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg wet	0.200		105	30-150			

LCS Dup (B186360-BSD1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	7.36	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.1	40-140	7.48	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	8.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.1	40-140	9.73	30	
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			

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 B186360 - SW-846 3540C										
Matrix Spike (B186360-MS1)	Source: 17I0317-08			Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.24	0.087	mg/Kg dry	0.219	ND	112	40-140			
Aroclor-1016 [2C]	0.24	0.087	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1260	0.19	0.087	mg/Kg dry	0.219	ND	84.6	40-140			
Aroclor-1260 [2C]	0.18	0.087	mg/Kg dry	0.219	ND	82.7	40-140			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg dry	0.219		95.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg dry	0.219		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.219		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.219		101	30-150			
Matrix Spike (B186360-MS2)	Source: 17I0317-09			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.20	0.088	mg/Kg dry	0.219	ND	90.3	40-140			
Aroclor-1016 [2C]	0.21	0.088	mg/Kg dry	0.219	ND	95.0	40-140			
Aroclor-1260	0.14	0.088	mg/Kg dry	0.219	ND	65.9	40-140			
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.219	ND	66.8	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg dry	0.219		77.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.286		mg/Kg dry	0.219		130	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg dry	0.219		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg dry	0.219		76.2	30-150			
Matrix Spike (B186360-MS3)	Source: 17I0317-12			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.26	0.088	mg/Kg dry	0.220	ND	116	40-140			
Aroclor-1016 [2C]	0.25	0.088	mg/Kg dry	0.220	ND	115	40-140			
Aroclor-1260	0.32	0.088	mg/Kg dry	0.220	0.12	91.4	40-140			
Aroclor-1260 [2C]	0.33	0.088	mg/Kg dry	0.220	0.10	104	40-140			
Surrogate: Decachlorobiphenyl	0.214		mg/Kg dry	0.220		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg dry	0.220		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.220		mg/Kg dry	0.220		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.220		103	30-150			
Matrix Spike (B186360-MS4)	Source: 17I0317-16			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.28	0.089	mg/Kg dry	0.223	ND	124	40-140			
Aroclor-1016 [2C]	0.29	0.089	mg/Kg dry	0.223	ND	128	40-140			
Aroclor-1260	0.20	0.089	mg/Kg dry	0.223	ND	89.2	40-140			
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.223	ND	86.3	40-140			
Surrogate: Decachlorobiphenyl	0.211		mg/Kg dry	0.223		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.220		mg/Kg dry	0.223		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.223		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.224		mg/Kg dry	0.223		100	30-150			
Matrix Spike Dup (B186360-MSD1)	Source: 17I0317-08			Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.24	0.092	mg/Kg dry	0.231	ND	104	40-140	1.83	50	
Aroclor-1016 [2C]	0.22	0.092	mg/Kg dry	0.231	ND	96.3	40-140	5.77	50	
Aroclor-1260	0.18	0.092	mg/Kg dry	0.231	ND	79.6	40-140	0.637	50	
Aroclor-1260 [2C]	0.18	0.092	mg/Kg dry	0.231	ND	78.0	40-140	0.341	50	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg dry	0.231		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg dry	0.231		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg dry	0.231		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg dry	0.231		92.3	30-150			

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 B186360 - SW-846 3540C

Matrix Spike Dup (B186360-MSD2)		Source: 17I0317-09		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.22	0.088	mg/Kg dry	0.221	ND	97.2	40-140	8.36	50	
Aroclor-1016 [2C]	0.20	0.088	mg/Kg dry	0.221	ND	90.8	40-140	3.56	50	
Aroclor-1260	0.15	0.088	mg/Kg dry	0.221	ND	66.6	40-140	2.05	50	
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.221	ND	67.0	40-140	1.36	50	
Surrogate: Decachlorobiphenyl	0.174		mg/Kg dry	0.221		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.258		mg/Kg dry	0.221		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg dry	0.221		73.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg dry	0.221		79.3	30-150			

Matrix Spike Dup (B186360-MSD3)		Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.27	0.089	mg/Kg dry	0.223	ND	119	40-140	3.42	50	
Aroclor-1016 [2C]	0.26	0.089	mg/Kg dry	0.223	ND	116	40-140	1.70	50	
Aroclor-1260	0.33	0.089	mg/Kg dry	0.223	0.12	94.1	40-140	2.44	50	
Aroclor-1260 [2C]	0.33	0.089	mg/Kg dry	0.223	0.10	104	40-140	0.482	50	
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.223		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg dry	0.223		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.227		mg/Kg dry	0.223		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.235		mg/Kg dry	0.223		106	30-150			

Matrix Spike Dup (B186360-MSD4)		Source: 17I0317-16		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.27	0.089	mg/Kg dry	0.222	ND	120	40-140	4.36	50	
Aroclor-1016 [2C]	0.25	0.089	mg/Kg dry	0.222	ND	114	40-140	12.0	50	
Aroclor-1260	0.20	0.089	mg/Kg dry	0.222	ND	87.9	40-140	1.97	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.222	ND	87.6	40-140	0.912	50	
Surrogate: Decachlorobiphenyl	0.215		mg/Kg dry	0.222		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg dry	0.222		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg dry	0.222		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.222		102	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)										
				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.07		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)										
				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	3.55		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)										
				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	3.40		mg/Kg wet	3.33		102	50-150			
Matrix Spike (B186332-MS1)										
				Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17				
CT ETPH	332	57	mg/Kg dry	37.7	458	-333 *	50-150			MS-09
Surrogate: o-Terphenyl	2.04		mg/Kg dry	3.77		54.2	50-150			
Matrix Spike Dup (B186332-MSD1)										
				Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17				
CT ETPH	296	57	mg/Kg dry	37.8	458	-428 *	50-150	11.5	30	MS-09
Surrogate: o-Terphenyl	1.69		mg/Kg dry	3.78		44.6 *	50-150			S-23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186207 - % Solids										
Duplicate (B186207-DUP1)	Source: 17I0317-08			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	86.6		% Wt		86.1			0.579	20	
Duplicate (B186207-DUP2)	Source: 17I0317-09			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	87.4		% Wt		88.8			1.59	20	
Duplicate (B186207-DUP3)	Source: 17I0317-12			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	88.9		% Wt		88.1			0.904	20	
Duplicate (B186207-DUP4)	Source: 17I0317-16			Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	87.4		% Wt		88.6			1.36	20	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-11-1

Lab Sample ID: 17I0317-07 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.14	25.0
Aroclor-1268	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-6-1**Lab Sample ID: 17I0317-11 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-6-2

Lab Sample ID: 17I0317-12 Date(s) Analyzed: 09/19/2017 09/19/2017
Instrument ID (1): Instrument ID (2):
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.10	18.2
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	15.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-12-1

Lab Sample ID: 17I0317-15 Date(s) Analyzed: 09/20/2017 09/20/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	0.68	13.7
Aroclor-1268	1	0.000	-0.030	0.030	2.7	
	2	0.000	-0.030	0.030	2.4	11.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-6-SO-12-4**

Lab Sample ID: 17I0317-18 Date(s) Analyzed: 09/19/2017 09/19/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-1

Lab Sample ID: 17I0317-19 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-2

Lab Sample ID: 17I0317-20 Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rocky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotiak

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	5-day ☐
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #: _____	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC-15-SD-35-1	9/18/17	0930		X	S	U
2	WS-AOC-15-SD-35-2	9/18/17	0939		X	S	U
3	WS-AOC-15-SD-35-3	9/18/17	0940		X	S	U
4	WS-AOC-15-SD-32-1	9/18/17	0930		X	S	U
5	WS-AOC-15-SD-32-2	9/18/17	0931		X	S	U
6	WS-AOC-15-SD-32-3	9/18/17	0932		X	S	U
7	WS-AOC-6-SD-11-1	9/18/17	1023		X	S	U
8	WS-AOC-6-SD-11-2	9/18/17	1024		X	S	U
9	WS-AOC-6-SD-11-3	9/18/17	1025		X	S	U
10	WS-AOC-6-SD-11-4	9/18/17	1026		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

222m to MS/MSO for WS-AOC-6-SD-11-2 and WS-AOC-6-SD-11-3 for PCBs.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
 O = Other (please define)

2 Preservation Codes:
 1 = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analysis Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

CHAIN OF CUSTODY RECORD

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: _____	5-day ☐
Rush Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: _____	
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-POL-6-30-6-1	9/8/17	1020		X	S	2
12	WS-POL-6-30-6-2		1021				
13	WS-POL-6-30-6-3		1022				
14	WS-POL-6-30-6-4		1023				
15	WS-POL-6-30-12-1		1040				
16	WS-POL-6-30-12-2		1041				
17	WS-POL-6-30-12-3		1042				
18	WS-POL-6-30-12-4		1043				
19	WS-POL-6-30-5-1		1045				
20	WS-POL-6-30-5-2		1046				

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

Please hold excess volumes for possible SPLP analyses.

PLEASE AS MSJMSD FOR WS-POL-6-30-6-2 FOR PCBs & EPH. PLEASE AS MSJMSD FOR WS-POL-6-30-12-2 FOR PCBs

Relinquished by: (signature) Date/Time: 9/8/17 1520

Received by: (signature) Date/Time: 9/8/17 1520

Relinquished by: (signature) Date/Time: 9/8/17 1540

Received by: (signature) Date/Time: 9/8/17 1545

Relinquished by: (signature) Date/Time: 9/8/17 17:06

Received by: (signature) Date/Time: 9/8/17 1706

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified?

Are there Rushes? N/A Who was notified?

Are there Short Holds? N/A Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A 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
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918033.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples

17I0243-10@100X
 17I0325-09@25X
 17I0243-13@50X
 17I0243-01@100X
 17I0243-04@100X
 17I0241-01
 17I0241-19
 17I0242-12
 17I0244-20
 17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/18/17
 Data File Name A0918007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples

17I0247-01
 17I0247-02
 17I0374-01
 17I0240-10
 17I0374-03
 17I0234-03@5X
 17I0234-08@5X

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0918085.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
 17I0317-12
 17I0317-20
 17I0320-04
 17I0320-08
 17I0320-16

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919034.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples

17I0380-07
 17I0380-08
 17I0408-01
 17I0408-02
 17I0408-03
 17I0408-04
 17I0408-05
 17I0408-06
 17I0408-07
 17I0408-08
 17I0539-06
 17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919080.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples

17I0719-04
 17I0719-07
 17I0719-04
 17I0719-08@20X
 17I0719-09@10X
 17I0241-16@5X
 17I0244-11@10X
 17I0317-01@5X
 17I0317-08@5X
 17I0317-12@5X
 17I0317-16@5X
 17I0317-20@5X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0317

Laboratory Sample ID(s):

17I0317-01 thru 17I0317-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/20/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0321

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17I0321-01	6
17I0321-02	8
17I0321-03	12
17I0321-04	14
17I0321-05	16
17I0321-06	20
17I0321-07	22
17I0321-08	24
17I0321-09	27
17I0321-10	29
17I0321-11	31
17I0321-12	33
17I0321-13	35
17I0321-14	37
17I0321-15	39
Sample Preparation Information	41
QC Data	42
Semivolatile Organic Compounds by GC/MS	42
B186330	42
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	44
B186353	44
Petroleum Hydrocarbons Analyses	45

Table of Contents (continued)

B186332	45
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	46
B186207	46
Flag/Qualifier Summary	47
Certifications	48
Chain of Custody/Sample Receipt	50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710321

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-109-3	1710321-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-108-1	1710321-02	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-12W-SO-108-2	1710321-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-108-3	1710321-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-106-1	1710321-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-12W-SO-106-2	1710321-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-106-3	1710321-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP52	1710321-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP53	1710321-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP54	1710321-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP55	1710321-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP56	1710321-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP57	1710321-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-DUP58	1710321-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-DUP59	1710321-15	Soil		SM 2540G SW-846 8082A	

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

1710321-02[WS-AOC-12W-SO-108-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150							
Decachlorobiphenyl [2]	89.0	30-150							
Tetrachloro-m-xylene [1]	91.0	30-150							
Tetrachloro-m-xylene [2]	94.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Anthracene	0.37	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)anthracene	1.3	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)pyrene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(b)fluoranthene	1.4	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(g,h,i)perylene	0.63	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(k)fluoranthene	0.47	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Chrysene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluoranthene	3.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Phenanthrene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Pyrene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	60.4	30-130							
2-Fluorobiphenyl	74.2	30-130							
p-Terphenyl-d14	79.3	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.1	30-150						9/20/17 19:12	
Decachlorobiphenyl [2]	78.6	30-150						9/20/17 19:12	
Tetrachloro-m-xylene [1]	90.6	30-150						9/20/17 19:12	
Tetrachloro-m-xylene [2]	93.7	30-150						9/20/17 19:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	280	mg/Kg dry	20		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 3:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.3	30-150							
Decachlorobiphenyl [2]	69.6	30-150							
Tetrachloro-m-xylene [1]	74.8	30-150							
Tetrachloro-m-xylene [2]	79.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.8	30-150							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	94.5	30-150							
Tetrachloro-m-xylene [2]	95.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)anthracene	0.95	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)pyrene	0.98	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(b)fluoranthene	1.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(g,h,i)perylene	0.57	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(k)fluoranthene	0.44	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Chrysene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluoranthene	2.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Indeno(1,2,3-cd)pyrene	0.63	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Naphthalene	0.32	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Phenanthrene	0.52	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Pyrene	2.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	55.7	30-130							
2-Fluorobiphenyl	62.6	30-130							
p-Terphenyl-d14	64.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.3	30-150							
Decachlorobiphenyl [2]	87.6	30-150							
Tetrachloro-m-xylene [1]	87.6	30-150							
Tetrachloro-m-xylene [2]	91.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	55.4		50-150					9/19/17 18:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.7	30-150							
Decachlorobiphenyl [2]	90.0	30-150							
Tetrachloro-m-xylene [1]	87.2	30-150							
Tetrachloro-m-xylene [2]	91.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	97.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.5	30-150							
Decachlorobiphenyl [2]	89.4	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	80	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 19:14	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	73.8		50-150				9/19/17 19:14		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	97.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	60.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.4	30-150							
Decachlorobiphenyl [2]	90.8	30-150							
Tetrachloro-m-xylene [1]	90.1	30-150							
Tetrachloro-m-xylene [2]	92.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	86.8	30-150							
Tetrachloro-m-xylene [1]	90.6	30-150							
Tetrachloro-m-xylene [2]	93.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	77.5	30-150							
Tetrachloro-m-xylene [2]	81.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.2	30-150							
Decachlorobiphenyl [2]	92.0	30-150							
Tetrachloro-m-xylene [1]	96.8	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.5	30-150							
Decachlorobiphenyl [2]	89.5	30-150							
Tetrachloro-m-xylene [1]	95.1	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	95.2	30-150							
Tetrachloro-m-xylene [1]	92.1	30-150							
Tetrachloro-m-xylene [2]	93.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186332	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186332	30.1	1.00	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186332	30.1	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186207	09/14/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186207	09/14/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186207	09/14/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186207	09/14/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186207	09/14/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186207	09/14/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186207	09/14/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186207	09/14/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186207	09/14/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186207	09/14/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186207	09/14/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186207	09/14/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186207	09/14/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186207	09/14/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186353	10.4	10.0	09/15/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186353	10.2	10.0	09/15/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186353	10.5	10.0	09/15/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186353	10.6	10.0	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186353	10.6	10.0	09/15/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186353	10.4	10.0	09/15/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186353	10.4	10.0	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186353	10.5	10.0	09/15/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186353	10.5	10.0	09/15/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186353	10.6	10.0	09/15/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186353	10.4	10.0	09/15/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186353	10.8	10.0	09/15/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186353	10.6	10.0	09/15/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186353	10.5	10.0	09/15/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186353	10.3	10.0	09/15/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186330	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186330	30.1	1.00	09/15/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186330 - SW-846 3546
Blank (B186330-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.9	30-130			

LCS (B186330-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.3	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)					Prepared: 09/15/17 Analyzed: 09/18/17					
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	3.76		mg/Kg wet	3.33		113	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186353 - SW-846 3540C
Blank (B186353-BLK1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			

LCS (B186353-BS1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			

LCS Dup (B186353-BSD1)

Prepared: 09/15/17 Analyzed: 09/19/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.07		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	3.55		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	3.40		mg/Kg wet	3.33		102	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186207 - % Solids

Duplicate (B186207-DUP7)		Source: 1710321-01		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	55.2		% Wt		58.0			4.95	20	
Duplicate (B186207-DUP8)		Source: 1710321-02		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	67.5		% Wt		72.1			6.59	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>CTDEP ETPH in Soil</i>	
CT ETPH	CT
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1710321



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

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 Sirotek

Requested Turnaround Time

7-Day ☒ 10-Day ☐Other: 5-day ☐

Rush Approval Required

1-Day ☐ 3-Day ☐2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☒ EXCEL ☒Other: ☐Enhanced Data Package Required: ☐

Email To: beelerm@wseinc.com

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC-12W-50-101-3	9/13/17	1300		X	S	U
2	WS-AOC-12W-50-103-1		1327				
3	WS-AOC-12W-50-103-2		1323				
4	WS-AOC-12W-50-102-3		1324				
5	WS-AOC-12W-50-100-1		1423				
6	WS-AOC-12W-50-100-2		1424				
7	WS-AOC-12W-50-100-3		1425				
8	WS-AOC-15-50-100-52						
9	WS-AOC-15-50-100-53						

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: 9/15/17 1520	Detection Limit Requirements MA CT 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
Received by: (signature)	Date/Time: 9/18/17 1520		
Relinquished by: (signature)	Date/Time: 9/18/17 1540		
Received by: (signature)	Date/Time: 9/18/17 1545		
Relinquished by: (signature)	Date/Time: 9/18/17 1707	TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.	
Received by: (signature)	Date/Time: 9/18/17 1707	PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT	

17IO321

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 _____ of _____

Company Name: Weston & Sampson Engineers Address: 273 Dividend Rd Rocky Hill, CT Phone: 860 513-1473 Project Name: English Station Project Location: 510 Grand Ave, New Haven, CT Project Number: 2170495 Project Manager: Malcolm Beeler Con-Test Bid: Invoice Recipient: Malcolm Beeler (Weston & Sampson) Sampled By: Chris Berthiaume/Will Sirotiak		Requested Turnaround Time 7-Day ☒ 10-Day ☐ Other: ☐ 5-day ☐ Rush-Approval Required 1-Day ☐ 3-Day ☐ 2-Day ☐ 4-Day ☐ Data Delivery Format: PDF ☒ EXCEL ☒ Other: ☐ Enhanced Data Package Required: ☐ Email To: bee@rm@wseinc.com Fax To #:		ANALYSIS REQUESTED Dissolved Metals Samples ☐ Field Filtered ☐ Lab to Filter Orthophosphate Samples ☐ Field Filtered ☐ Lab to Filter		Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil/Solid SL = Sludge O = Other (please define)		Preservation Codes: I = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Thiosulfate O = Other (please define)		Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)					
Con-Test Work Order# 10 11 12 13 14 15		Client Sample ID / Description WS-POL-6-30-DUP54 WS-POL-6-30-DUP55 WS-POL-6-30-DUP56 WS-POL-6-30-DUP57 WS-POL-6-30-DUP58 WS-POL-12W-30-DUP59		Beginning Date/Time 9/8/17 9/8/17 9/8/17 9/8/17 9/8/17 9/8/17		Ending Date/Time - - - - - -		Composite X - - - - -		Grab X - - - - -		Matrix Code S - - - - -		Conc Code - - - - - -	
Comments: Please hold excess volumes for possible SPLP analyses. H - High; M - Medium; L - Low; C - Clean; U - Unknown															
Relinquished by: (signature) [Signature] Date/Time: 9/8/17 1520				Detection Limit Requirements MA				Program Information ☐ MCP Analytical Certification Form Required ☒ RCP Analysis Certification Form Required ☐ MA State DW Form Required PWSID # _____							
Received by: (signature) [Signature] Date/Time: 9/8/17 1520				RES DEC				NELAC and AIHA-LAP, LLC Accredited							
Relinquished by: (signature) [Signature] Date/Time: 9/8/17 1540				Other:				TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.							
Received by: (signature) [Signature] Date/Time: 9/8/17 1540				Other:				PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT							
Relinquished by: (signature) [Signature] Date/Time: 9/8/17 17:07				Other:				TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.							
Received by: (signature) [Signature] Date/Time: 9/8/17 1707				Other:				PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT							

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified?

Are there Rushes? N/A Who was notified?

Are there Short Holds? N/A Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0321

Laboratory Sample ID(s):

17I0321-01 thru 17I0321-15

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☒ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/21/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 1710378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0378-01	7
17I0378-02	10
17I0378-03	12
17I0378-04	14
17I0378-05	16
17I0378-06	18
17I0378-07	20
17I0378-08	22
17I0378-09	24
17I0378-10	26
17I0378-11	28
17I0378-12	30
17I0378-13	33
17I0378-14	36
17I0378-15	39
17I0378-16	41
17I0378-17	43
17I0378-18	45
17I0378-19	47
17I0378-20	50
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B186484	55
Petroleum Hydrocarbons Analyses	58
B186472	58
Metals Analyses (Total)	59
B186450	59
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	60
B186437	60
Dual Column RPD Report	61
Flag/Qualifier Summary	65
Certifications	66
Chain of Custody/Sample Receipt	67

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-20-1	1710378-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-2	1710378-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-3	1710378-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-1	1710378-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-2	1710378-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-3	1710378-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-4	1710378-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-1	1710378-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-2	1710378-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-3	1710378-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-1	1710378-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-2	1710378-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-3	1710378-13	Soil		SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12W-SO-105-1	1710378-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-2	1710378-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-3	1710378-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-1	1710378-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-2	1710378-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	1710378-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-103-1	1710378-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

1710378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

1710378-01[WS-AOC-15-SO-20-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.5	30-150							
Decachlorobiphenyl [2]	84.7	30-150							
Tetrachloro-m-xylene [1]	86.2	30-150							
Tetrachloro-m-xylene [2]	85.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 19:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.2	30-150					9/21/17 18:02	
Decachlorobiphenyl [2]		98.5	30-150					9/21/17 18:02	
Tetrachloro-m-xylene [1]		87.0	30-150					9/21/17 18:02	
Tetrachloro-m-xylene [2]		88.7	30-150					9/21/17 18:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.6	30-150							
Decachlorobiphenyl [2]	90.2	30-150							
Tetrachloro-m-xylene [1]	82.1	30-150							
Tetrachloro-m-xylene [2]	79.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01		9/22/17	7:56	
Decachlorobiphenyl [2]	*	30-150			S-01		9/22/17	7:56	
Tetrachloro-m-xylene [1]	*	30-150			S-01		9/22/17	7:56	
Tetrachloro-m-xylene [2]	*	30-150			S-01		9/22/17	7:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/22/17 8:08	
Decachlorobiphenyl [2]	*	30-150			S-01			9/22/17 8:08	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/22/17 8:08	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/22/17 8:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.1	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	91.9	30-150							
Tetrachloro-m-xylene [2]	91.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	91.4	30-150							
Tetrachloro-m-xylene [2]	91.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.5	30-150							
Decachlorobiphenyl [2]	92.3	30-150							
Tetrachloro-m-xylene [1]	91.0	30-150							
Tetrachloro-m-xylene [2]	92.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.5	30-150							
Decachlorobiphenyl [2]	80.5	30-150							
Tetrachloro-m-xylene [1]	72.3	30-150							
Tetrachloro-m-xylene [2]	72.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.0	30-150							
Decachlorobiphenyl [2]	81.2	30-150							
Tetrachloro-m-xylene [1]	77.7	30-150							
Tetrachloro-m-xylene [2]	80.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.3	30-150							
Decachlorobiphenyl [2]	84.5	30-150							
Tetrachloro-m-xylene [1]	87.9	30-150							
Tetrachloro-m-xylene [2]	92.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.9	30-150							
Decachlorobiphenyl [2]	86.0	30-150							
Tetrachloro-m-xylene [1]	90.0	30-150							
Tetrachloro-m-xylene [2]	97.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	83.2		50-150					9/20/17 1:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	93.3	30-150							
Tetrachloro-m-xylene [2]	96.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.1	30-150						9/21/17 23:21	
Decachlorobiphenyl [2]	94.2	30-150						9/21/17 23:21	
Tetrachloro-m-xylene [1]	90.4	30-150						9/21/17 23:21	
Tetrachloro-m-xylene [2]	89.7	30-150						9/21/17 23:21	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	64.0		50-150					9/20/17 2:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.5	30-150						9/21/17 23:38	
Decachlorobiphenyl [2]	83.7	30-150						9/21/17 23:38	
Tetrachloro-m-xylene [1]	84.8	30-150						9/21/17 23:38	
Tetrachloro-m-xylene [2]	90.9	30-150						9/21/17 23:38	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	41.8	30-150							
Decachlorobiphenyl [2]	50.9	30-150							
Tetrachloro-m-xylene [1]	45.9	30-150							
Tetrachloro-m-xylene [2]	44.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.7	30-150							
Decachlorobiphenyl [2]	78.4	30-150							
Tetrachloro-m-xylene [1]	80.6	30-150							
Tetrachloro-m-xylene [2]	85.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150						9/22/17 0:31	
Decachlorobiphenyl [2]	85.5	30-150						9/22/17 0:31	
Tetrachloro-m-xylene [1]	82.3	30-150						9/22/17 0:31	
Tetrachloro-m-xylene [2]	88.2	30-150						9/22/17 0:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.8	30-150						9/22/17 0:48	
Decachlorobiphenyl [2]	89.4	30-150						9/22/17 0:48	
Tetrachloro-m-xylene [1]	88.2	30-150						9/22/17 0:48	
Tetrachloro-m-xylene [2]	92.8	30-150						9/22/17 0:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.8		50-150					9/20/17 19:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.8	30-150						9/22/17 1:06	
Decachlorobiphenyl [2]	87.4	30-150						9/22/17 1:06	
Tetrachloro-m-xylene [1]	86.3	30-150						9/22/17 1:06	
Tetrachloro-m-xylene [2]	91.6	30-150						9/22/17 1:06	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	79.8		50-150					9/20/17 7:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186437	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186437	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186484 - SW-846 3540C
Blank (B186484-BLK1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.5	30-150			

LCS (B186484-BS1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

LCS Dup (B186484-BSD1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	0.167		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)	Source: 1710378-12			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	0.155		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)	Source: 1710378-15			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.209		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)	Source: 1710378-18			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	0.165		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	0.160		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg dry	0.212		84.2	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186484 - SW-846 3540C

Matrix Spike Dup (B186484-MSD2)		Source: 1710378-12		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg dry	0.205		101	30-150			

Matrix Spike Dup (B186484-MSD3)		Source: 1710378-15		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg dry	0.210		96.2	30-150			

Matrix Spike Dup (B186484-MSD4)		Source: 1710378-18		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	0.163		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.208		93.3	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546										
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.75		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	2.85		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.8	50-150			
Matrix Spike (B186472-MS1)				Source: 17I0378-12		Prepared: 09/18/17 Analyzed: 09/20/17				
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	-48.7 *	50-150			MS-09
Surrogate: o-Terphenyl	2.70		mg/Kg dry	3.44		78.4	50-150			
Matrix Spike Dup (B186472-MSD1)				Source: 17I0378-12		Prepared: 09/18/17 Analyzed: 09/20/17				
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	-70.3 *	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	2.36		mg/Kg dry	3.44		68.7	50-150			

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 B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)	Source: 1710378-12			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)	Source: 1710378-15			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)	Source: 1710378-18			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	96.0		% Wt		96.3			0.312	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-9-SO-29-1***SW-846 8082A*

Lab Sample ID: 17I0378-04 Date(s) Analyzed: 09/22/2017 09/22/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-9-SO-29-2**

Lab Sample ID: 1710378-05 Date(s) Analyzed: 09/22/2017 09/22/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-2***SW-846 8082A*

Lab Sample ID: 17I0378-09 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-3***SW-846 8082A*

Lab Sample ID: 17I0378-10 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1710378



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 5

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcooky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume / Will Sirotnak

Requested Turnaround Time	☒ 7-Day ☐ 10-Day ☐ 5-day
Rush-Approval Required	☐ 3-Day ☐ 4-Day
Data Delivery	☒ EXCEL ☐
Enhanced Data Package Required:	☐
Email To:	beelerm@wseinc.com
Fax To #:	

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-12W-SD-111-1	9/11/17	0935		X	S	U
12	WS-PDC-12W-SD-111-2	9/11/17	0936		X	S	U
13	WS-PDC-12W-SD-111-3	9/11/17	0937		X	S	U
14	WS-PDC-12W-SD-105-1	9/11/17	0938		X	S	U
15	WS-PDC-12W-SD-105-2	9/11/17	0939		X	S	U
16	WS-PDC-12W-SD-105-3	9/11/17	0940		X	S	U
17	WS-PDC-12W-SD-110-1	9/11/17	0941		X	S	U
18	WS-PDC-12W-SD-110-2	9/11/17	0942		X	S	U
19	WS-PDC-12W-SD-110-3	9/11/17	0943		X	S	U
20	WS-PDC-12W-SD-108-1	9/11/17	0954		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

PLEASE DO NOT DESTROY ANALYSES FOR WS-PDC-12W-SD-111-2 FOR PCBs AND ETPH, AND
FOR WS-PDC-12W-SD-105-2 FOR PCBs, AND WS-PDC-12W-SD-110-2 FOR PCBs

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Date/Time: 9/11/17 1445

Received by: (signature) Date/Time: 9/11/17 1445

Relinquished by: (signature) Date/Time: 9/11/17 1505

Received by: (signature) Date/Time: 9/11/17 1505

Relinquished by: (signature) Date/Time: 9/11/17 430

Received by: (signature) Date/Time: 9/11/17 1030

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE
QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME
CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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 K Sampson

Received By PLF Date 9/11/17 Time 11:30

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 23°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear <u>28</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919137.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
 17I0380-01
 17I0380-03
 17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920031.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920079.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
 17I0517-09
 17I0517-12
 17I0462-04
 17I0462-17
 17I0462-20
 17I0463-12
 17I0241-10RE1@5X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☒ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/22/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 1710378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0378-01	7
17I0378-02	10
17I0378-03	12
17I0378-04	14
17I0378-05	16
17I0378-06	18
17I0378-07	20
17I0378-08	22
17I0378-09	24
17I0378-10	26
17I0378-11	28
17I0378-12	30
17I0378-13	33
17I0378-14	36
17I0378-15	39
17I0378-16	41
17I0378-17	43
17I0378-18	45
17I0378-19	47
17I0378-20	50
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B186484	55
Petroleum Hydrocarbons Analyses	58
B186472	58
Metals Analyses (Total)	59
B186450	59
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	60
B186437	60
Dual Column RPD Report	61
Flag/Qualifier Summary	65
Certifications	66
Chain of Custody/Sample Receipt	67

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-20-1	1710378-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-2	1710378-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-3	1710378-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-1	1710378-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-2	1710378-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-3	1710378-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-4	1710378-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-1	1710378-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-2	1710378-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-3	1710378-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-1	1710378-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-2	1710378-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-3	1710378-13	Soil		SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12W-SO-105-1	1710378-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-2	1710378-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-3	1710378-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-1	1710378-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-2	1710378-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	1710378-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-103-1	1710378-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

1710378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

1710378-01[WS-AOC-15-SO-20-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.5	30-150							
Decachlorobiphenyl [2]	84.7	30-150							
Tetrachloro-m-xylene [1]	86.2	30-150							
Tetrachloro-m-xylene [2]	85.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 19:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.2	30-150							
Decachlorobiphenyl [2]	98.5	30-150							
Tetrachloro-m-xylene [1]	87.0	30-150							
Tetrachloro-m-xylene [2]	88.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.6	30-150							
Decachlorobiphenyl [2]	90.2	30-150							
Tetrachloro-m-xylene [1]	82.1	30-150							
Tetrachloro-m-xylene [2]	79.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/22/17 7:56	
Decachlorobiphenyl [2]	*	30-150			S-01			9/22/17 7:56	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/22/17 7:56	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/22/17 7:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/22/17 8:08	
Decachlorobiphenyl [2]	*	30-150			S-01			9/22/17 8:08	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/22/17 8:08	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/22/17 8:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.1	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	91.9	30-150							
Tetrachloro-m-xylene [2]	91.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	91.4	30-150							
Tetrachloro-m-xylene [2]	91.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.5	30-150						9/21/17 19:47	
Decachlorobiphenyl [2]	92.3	30-150						9/21/17 19:47	
Tetrachloro-m-xylene [1]	91.0	30-150						9/21/17 19:47	
Tetrachloro-m-xylene [2]	92.9	30-150						9/21/17 19:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.5	30-150							
Decachlorobiphenyl [2]	80.5	30-150							
Tetrachloro-m-xylene [1]	72.3	30-150							
Tetrachloro-m-xylene [2]	72.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.0	30-150							
Decachlorobiphenyl [2]	81.2	30-150							
Tetrachloro-m-xylene [1]	77.7	30-150							
Tetrachloro-m-xylene [2]	80.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.3	30-150							
Decachlorobiphenyl [2]	84.5	30-150							
Tetrachloro-m-xylene [1]	87.9	30-150							
Tetrachloro-m-xylene [2]	92.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.9	30-150							
Decachlorobiphenyl [2]	86.0	30-150							
Tetrachloro-m-xylene [1]	90.0	30-150							
Tetrachloro-m-xylene [2]	97.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	83.2		50-150					9/20/17 1:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	93.3	30-150							
Tetrachloro-m-xylene [2]	96.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.1	30-150							
Decachlorobiphenyl [2]	94.2	30-150							
Tetrachloro-m-xylene [1]	90.4	30-150							
Tetrachloro-m-xylene [2]	89.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	64.0		50-150					9/20/17 2:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.5	30-150						9/21/17 23:38	
Decachlorobiphenyl [2]	83.7	30-150						9/21/17 23:38	
Tetrachloro-m-xylene [1]	84.8	30-150						9/21/17 23:38	
Tetrachloro-m-xylene [2]	90.9	30-150						9/21/17 23:38	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	41.8	30-150							
Decachlorobiphenyl [2]	50.9	30-150							
Tetrachloro-m-xylene [1]	45.9	30-150							
Tetrachloro-m-xylene [2]	44.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.7	30-150						9/22/17 0:13	
Decachlorobiphenyl [2]	78.4	30-150						9/22/17 0:13	
Tetrachloro-m-xylene [1]	80.6	30-150						9/22/17 0:13	
Tetrachloro-m-xylene [2]	85.8	30-150						9/22/17 0:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150						9/22/17 0:31	
Decachlorobiphenyl [2]	85.5	30-150						9/22/17 0:31	
Tetrachloro-m-xylene [1]	82.3	30-150						9/22/17 0:31	
Tetrachloro-m-xylene [2]	88.2	30-150						9/22/17 0:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.8	30-150						9/22/17 0:48	
Decachlorobiphenyl [2]	89.4	30-150						9/22/17 0:48	
Tetrachloro-m-xylene [1]	88.2	30-150						9/22/17 0:48	
Tetrachloro-m-xylene [2]	92.8	30-150						9/22/17 0:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.8		50-150					9/20/17 19:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.8	30-150						9/22/17 1:06	
Decachlorobiphenyl [2]	87.4	30-150						9/22/17 1:06	
Tetrachloro-m-xylene [1]	86.3	30-150						9/22/17 1:06	
Tetrachloro-m-xylene [2]	91.6	30-150						9/22/17 1:06	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	79.8		50-150					9/20/17 7:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186437	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186437	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186484 - SW-846 3540C
Blank (B186484-BLK1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.5	30-150			

LCS (B186484-BS1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

LCS Dup (B186484-BSD1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	0.167		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)	Source: 1710378-12			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	0.155		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)	Source: 1710378-15			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.209		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)	Source: 1710378-18			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	0.165		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	0.160		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg dry	0.212		84.2	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186484 - SW-846 3540C

Matrix Spike Dup (B186484-MSD2)		Source: 1710378-12		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg dry	0.205		101	30-150			

Matrix Spike Dup (B186484-MSD3)		Source: 1710378-15		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg dry	0.210		96.2	30-150			

Matrix Spike Dup (B186484-MSD4)		Source: 1710378-18		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	0.163		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.208		93.3	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546										
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.75		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	2.85		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.8	50-150			
Matrix Spike (B186472-MS1)				Source: 17I0378-12		Prepared: 09/18/17 Analyzed: 09/20/17				
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	-48.7 *	50-150			MS-09
Surrogate: o-Terphenyl	2.70		mg/Kg dry	3.44		78.4	50-150			
Matrix Spike Dup (B186472-MSD1)				Source: 17I0378-12		Prepared: 09/18/17 Analyzed: 09/20/17				
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	-70.3 *	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	2.36		mg/Kg dry	3.44		68.7	50-150			

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 B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)	Source: 1710378-12			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)	Source: 1710378-15			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)	Source: 1710378-18			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	96.0		% Wt		96.3			0.312	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-9-SO-29-1***SW-846 8082A*

Lab Sample ID: 17I0378-04 Date(s) Analyzed: 09/22/2017 09/22/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-9-SO-29-2**Lab Sample ID: 1710378-05 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-2***SW-846 8082A*

Lab Sample ID: 17I0378-09 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-3***SW-846 8082A*

Lab Sample ID: 17I0378-10 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



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 Rcooky Hill, CT	
Phone:		860 513-1473	
Project Name:		English Station	
Project Location:		510 Grand Ave, New Haven, CT	
Project Number:		2170495	
Project Manager:		Malcolm Beeler	
Con-Test Bid:			
Invoice Recipient:		Malcolm Beeler (Weston & Sampson)	
Sampled By:		Chris Berthiaume/Will Sirotnak	

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To:	beelerm@wseinc.com
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-PDC-15-50-20-1	9/11/17	1129		X	S	U
02	WS-PDC-15-50-20-2	9/11/17	1130		X	S	U
03	WS-PDC-15-50-20-3	9/11/17	1131		X	S	U
04	WS-PDC-9-50-29-1	9/11/17	1140		X	S	U
05	WS-PDC-9-50-29-2	9/11/17	1147		X	S	U
06	WS-PDC-9-50-29-3	9/11/17	1148		X	S	U
07	WS-PDC-9-50-29-4	9/11/17	1149		X	S	U
08	WS-PDC-12W-50-112-1	9/11/17	1215		X	S	U
09	WS-PDC-12W-50-112-2	9/11/17	1216		X	S	U
10	WS-PDC-12W-50-112-3	9/11/17	1217		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Please do MSLMD for WS-PDC-12W-50-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Detection Limit Requirements
<i>[Signature]</i>	9/11/17 1445	MA
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1445	
Relinquished by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1505	CT
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1505	Other:
Relinquished by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 430	
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1030	

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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 K Sampson

Received By PLF Date 9/11/17 Time 11:30

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 23°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear <u>28</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919137.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
 17I0380-01
 17I0380-03
 17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920031.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920079.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
 17I0517-09
 17I0517-12
 17I0462-04
 17I0462-17
 17I0462-20
 17I0463-12
 17I0241-10RE1@5X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☒ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/22/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

October 19, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0378-01	7
17I0378-02	10
17I0378-03	12
17I0378-04	14
17I0378-05	16
17I0378-06	18
17I0378-07	20
17I0378-08	22
17I0378-09	24
17I0378-10	26
17I0378-11	28
17I0378-12	30
17I0378-13	33
17I0378-14	36
17I0378-15	39
17I0378-16	41
17I0378-17	43
17I0378-18	45
17I0378-19	47
17I0378-20	50
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction	55
B186484	55
Petroleum Hydrocarbons Analyses	58
B186472	58
Metals Analyses (Total)	59
B186450	59
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	60
B186437	60
Dual Column RPD Report	61
Flag/Qualifier Summary	65
Certifications	66
Chain of Custody/Sample Receipt	67

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-SO-27-1	1710378-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC15-SO-27-2	1710378-02	Soil		SM 2540G SW-846 8082A	
WS-AOC15-SO-27-3	1710378-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-1	1710378-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-2	1710378-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-3	1710378-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-4	1710378-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-1	1710378-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-2	1710378-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-3	1710378-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-1	1710378-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-2	1710378-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-3	1710378-13	Soil		SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12W-SO-105-1	1710378-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-2	1710378-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-3	1710378-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-1	1710378-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-2	1710378-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	1710378-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-103-1	1710378-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 10/19/2017 - 17I0378-01 through -03 IDs revised.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0378-01[WS-AOC15-SO-27-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

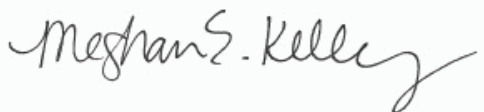
17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.5	30-150							
Decachlorobiphenyl [2]	84.7	30-150							
Tetrachloro-m-xylene [1]	86.2	30-150							
Tetrachloro-m-xylene [2]	85.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 19:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.2	30-150					9/21/17 18:02	
Decachlorobiphenyl [2]		98.5	30-150					9/21/17 18:02	
Tetrachloro-m-xylene [1]		87.0	30-150					9/21/17 18:02	
Tetrachloro-m-xylene [2]		88.7	30-150					9/21/17 18:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.6	30-150							
Decachlorobiphenyl [2]	90.2	30-150							
Tetrachloro-m-xylene [1]	82.1	30-150							
Tetrachloro-m-xylene [2]	79.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/22/17 7:56	
Decachlorobiphenyl [2]	*	30-150			S-01			9/22/17 7:56	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/22/17 7:56	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/22/17 7:56	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/22/17 8:08	
Decachlorobiphenyl [2]	*	30-150			S-01			9/22/17 8:08	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/22/17 8:08	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/22/17 8:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.1	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	91.9	30-150							
Tetrachloro-m-xylene [2]	91.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	91.4	30-150							
Tetrachloro-m-xylene [2]	91.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.5	30-150							
Decachlorobiphenyl [2]	92.3	30-150							
Tetrachloro-m-xylene [1]	91.0	30-150							
Tetrachloro-m-xylene [2]	92.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.5	30-150							
Decachlorobiphenyl [2]	80.5	30-150							
Tetrachloro-m-xylene [1]	72.3	30-150							
Tetrachloro-m-xylene [2]	72.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.0	30-150							
Decachlorobiphenyl [2]	81.2	30-150							
Tetrachloro-m-xylene [1]	77.7	30-150							
Tetrachloro-m-xylene [2]	80.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.3	30-150							
Decachlorobiphenyl [2]	84.5	30-150							
Tetrachloro-m-xylene [1]	87.9	30-150							
Tetrachloro-m-xylene [2]	92.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.9	30-150							
Decachlorobiphenyl [2]	86.0	30-150							
Tetrachloro-m-xylene [1]	90.0	30-150							
Tetrachloro-m-xylene [2]	97.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	83.2		50-150					9/20/17 1:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	93.3	30-150							
Tetrachloro-m-xylene [2]	96.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.1	30-150							
Decachlorobiphenyl [2]	94.2	30-150							
Tetrachloro-m-xylene [1]	90.4	30-150							
Tetrachloro-m-xylene [2]	89.7	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	64.0		50-150					9/20/17 2:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.5	30-150							
Decachlorobiphenyl [2]	83.7	30-150							
Tetrachloro-m-xylene [1]	84.8	30-150							
Tetrachloro-m-xylene [2]	90.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	41.8	30-150							
Decachlorobiphenyl [2]	50.9	30-150							
Tetrachloro-m-xylene [1]	45.9	30-150							
Tetrachloro-m-xylene [2]	44.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.7	30-150							
Decachlorobiphenyl [2]	78.4	30-150							
Tetrachloro-m-xylene [1]	80.6	30-150							
Tetrachloro-m-xylene [2]	85.8	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150						9/22/17 0:31	
Decachlorobiphenyl [2]	85.5	30-150						9/22/17 0:31	
Tetrachloro-m-xylene [1]	82.3	30-150						9/22/17 0:31	
Tetrachloro-m-xylene [2]	88.2	30-150						9/22/17 0:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.8	30-150						9/22/17 0:48	
Decachlorobiphenyl [2]	89.4	30-150						9/22/17 0:48	
Tetrachloro-m-xylene [1]	88.2	30-150						9/22/17 0:48	
Tetrachloro-m-xylene [2]	92.8	30-150						9/22/17 0:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.8		50-150					9/20/17 19:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.8	30-150						9/22/17 1:06	
Decachlorobiphenyl [2]	87.4	30-150						9/22/17 1:06	
Tetrachloro-m-xylene [1]	86.3	30-150						9/22/17 1:06	
Tetrachloro-m-xylene [2]	91.6	30-150						9/22/17 1:06	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	79.8		50-150					9/20/17 7:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC15-SO-27-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC15-SO-27-1]	B186437	09/18/17
17I0378-02 [WS-AOC15-SO-27-2]	B186437	09/18/17
17I0378-03 [WS-AOC15-SO-27-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC15-SO-27-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC15-SO-27-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC15-SO-27-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186484 - SW-846 3540C

Blank (B186484-BLK1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.5	30-150			

LCS (B186484-BS1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

LCS Dup (B186484-BSD1)

Prepared: 09/18/17 Analyzed: 09/21/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	0.167		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)	Source: 1710378-12			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	0.155		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)	Source: 1710378-15			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.209		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)	Source: 1710378-18			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	0.165		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	0.160		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg dry	0.212		84.2	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186484 - SW-846 3540C

Matrix Spike Dup (B186484-MSD2)		Source: 1710378-12		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg dry	0.205		101	30-150			

Matrix Spike Dup (B186484-MSD3)		Source: 1710378-15		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg dry	0.210		96.2	30-150			

Matrix Spike Dup (B186484-MSD4)		Source: 1710378-18		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	0.163		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.208		93.3	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546										
Blank (B186472-BLK1)					Prepared: 09/18/17 Analyzed: 09/19/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.75		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)					Prepared: 09/18/17 Analyzed: 09/19/17					
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	2.85		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)					Prepared: 09/18/17 Analyzed: 09/19/17					
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.8	50-150			
Matrix Spike (B186472-MS1)					Source: 1710378-12 Prepared: 09/18/17 Analyzed: 09/20/17					
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	-48.7 *	50-150			MS-09
Surrogate: o-Terphenyl	2.70		mg/Kg dry	3.44		78.4	50-150			
Matrix Spike Dup (B186472-MSD1)					Source: 1710378-12 Prepared: 09/18/17 Analyzed: 09/20/17					
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	-70.3 *	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	2.36		mg/Kg dry	3.44		68.7	50-150			

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 B186450 - SW-846 3050B
Blank (B186450-BLK1)

Prepared: 09/18/17 Analyzed: 09/19/17

Arsenic ND 2.5 mg/Kg wet

LCS (B186450-BS1)

Prepared: 09/18/17 Analyzed: 09/19/17

Arsenic 143 5.0 mg/Kg wet 157 90.9 77.8-122.1

LCS Dup (B186450-BSD1)

Prepared: 09/18/17 Analyzed: 09/19/17

Arsenic 146 4.8 mg/Kg wet 157 93.1 77.8-122.1 2.31 30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)	Source: 1710378-09			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)	Source: 1710378-12			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)	Source: 1710378-15			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)	Source: 1710378-18			Prepared: 09/18/17 Analyzed: 09/19/17						
% Solids	96.0		% Wt		96.3			0.312	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-9-SO-29-1***SW-846 8082A*Lab Sample ID: 17I0378-04 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-9-SO-29-2**Lab Sample ID: 1710378-05 Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-2***SW-846 8082A*

Lab Sample ID: 1710378-09 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-3***SW-846 8082A*

Lab Sample ID: 1710378-10 Date(s) Analyzed: 09/21/2017 09/21/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



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 Rcooky Hill, CT	
Phone:		860 513-1473	
Project Name:		English Station	
Project Location:		510 Grand Ave, New Haven, CT	
Project Number:		2170495	
Project Manager:		Malcolm Beeler	
Con-Test Bid:			
Invoice Recipient:		Malcolm Beeler (Weston & Sampson)	
Sampled By:		Chris Berthiaume/Will Sirotiak	

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other: ☐	
Enhanced Data Package Required: ☐	
Email To:	beelerm@wseinc.com
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
001	WS-PDC-15-50-20-1	9/11/17	1129		X	S	U
002	WS-PDC-15-50-20-2	9/11/17	1130		X	S	U
003	WS-PDC-15-50-20-3	9/11/17	1131		X	S	U
004	WS-PDC-9-50-29-1	9/11/17	1140		X	S	U
005	WS-PDC-9-50-29-2	9/11/17	1147		X	S	U
006	WS-PDC-9-50-29-3	9/11/17	1148		X	S	U
007	WS-PDC-9-50-29-4	9/11/17	1149		X	S	U
008	WS-PDC-12W-50-112-1	9/11/17	1215		X	S	U
009	WS-PDC-12W-50-112-2	9/11/17	1216		X	S	U
010	WS-PDC-12W-50-112-3	9/11/17	1217		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

Please do MSLMD for WS-PDC-12W-50-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Detection Limit Requirements
<i>[Signature]</i>	9/11/17 1445	MA
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1445	
Relinquished by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1505	CT
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1505	Other:
Relinquished by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 430	
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/11/17 1030	

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

1710378



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 5

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcohy Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume / Will Sirotak

Requested Turnaround Time	☒ 7-Day ☐ 10-Day ☐ 5-Day
Rush Approval Required	☐ 1-Day ☐ 3-Day ☐ 4-Day
Data Delivery	☒ EXCEL ☐ PDF
Enhanced Data Package Required:	☐
Email To:	beelerm@wseinc.com
Fax To #:	

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-12W-SD-111-1	9/11/17	0935		X	S	U
12	WS-PDC-12W-SD-111-2	9/11/17	0936		X	S	U
13	WS-PDC-12W-SD-111-3	9/11/17	0937		X	S	U
14	WS-PDC-12W-SD-105-1	9/11/17	0938		X	S	U
15	WS-PDC-12W-SD-105-2	9/11/17	0939		X	S	U
16	WS-PDC-12W-SD-105-3	9/11/17	0940		X	S	U
17	WS-PDC-12W-SD-110-1	9/11/17	0941		X	S	U
18	WS-PDC-12W-SD-110-2	9/11/17	0942		X	S	U
19	WS-PDC-12W-SD-110-3	9/11/17	0943		X	S	U
20	WS-PDC-12W-SD-108-1	9/11/17	0954		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

PLEASE DO NOT DESTROY ANALYSES FOR WS-PDC-12W-SD-111-2 FOR PCBs AND ETPH, AND
FOR WS-PDC-12W-SD-105-2 FOR PCBs, AND WS-PDC-12W-SD-110-2 FOR PCBs.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Date/Time: 9/11/17 1445

Received by: (signature) Date/Time: 9/11/17 1445

Relinquished by: (signature) Date/Time: 9/11/17 1505

Received by: (signature) Date/Time: 9/11/17 1505

Relinquished by: (signature) Date/Time: 9/11/17 430

Received by: (signature) Date/Time: 9/11/17 1030

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE
QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME
CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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 K Sampson

Received By PLF Date 9/11/17 Time 11:30

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 23°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear <u>28</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0919137.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
 17I0380-01
 17I0380-03
 17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919035.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples

17I0242-15@20X
 17I0244-05@20X
 17I0244-14@20X
 17I0320-19@5X
 17I0321-05@5X
 17I0321-08@5X
 17I0242-06@20X
 17I0242-09@20X
 17I0241-04@20X
 17I0241-13@20X
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/19/17
 Data File Name A0919081.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples

17I0531-03
 17I0531-04
 17I0656-01
 17I0378-12@5X
 17I0378-14@10X
 17I0319-08@5X
 17I0319-16@5X
 17I0320-08@5X
 17I0320-12@5X
 17I0321-02@20X
 17I0455-01@20X
 17I0531-01
 17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920031.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/20/17
 Data File Name A0920079.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
 17I0517-09
 17I0517-12
 17I0462-04
 17I0462-17
 17I0462-20
 17I0463-12
 17I0241-10RE1@5X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☒ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/22/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 28, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0465

Enclosed are results of analyses for samples received by the laboratory on September 12, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	8
17I0465-01	8
17I0465-02	9
17I0465-03	10
17I0465-04	11
17I0465-05	12
17I0465-06	13
17I0465-07	14
17I0465-08	15
17I0465-09	16
17I0465-10	17
17I0465-11	18
17I0465-12	19
17I0465-13	20
17I0465-14	21
17I0465-15	22
17I0465-16	23
17I0465-17	24
17I0465-18	25
17I0465-19	26
17I0465-20	27
17I0465-21	28
17I0465-22	29

Table of Contents (continued)

17I0465-23	30
Sample Preparation Information	37
QC Data	39
Volatile Organic Compounds by GC/MS	39
B186119	39
Semivolatile Organic Compounds by GC/MS	42
B186627	42
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	47
B186583	47
B186600	48
B186606	49
B186709	50
Metals Analyses (Total)	52
B186613	52
B186623	53
Dual Column RPD Report	54
Flag/Qualifier Summary	55
Certifications	56
Chain of Custody/Sample Receipt	61

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710465

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-AS-21	1710465-01	Product/Solid		SW-846 8082A	
WS-AOC15-AS-22	1710465-02	Product/Solid		SW-846 8082A	
WS-AOC15-AS-23	1710465-03	Product/Solid		SW-846 8082A	
WS-AOC15-AS-24	1710465-04	Product/Solid		SW-846 8082A	
WS-AOC15-AS-25	1710465-05	Product/Solid		SW-846 8082A	
WS-AOC15-AS-26	1710465-06	Product/Solid		SW-846 8082A	
WS-AOC15-AS-27	1710465-07	Product/Solid		SW-846 8082A	
WS-AOC15-AS-28	1710465-08	Product/Solid		SW-846 8082A	
WS-AOC15-AS-30	1710465-09	Product/Solid		SW-846 8082A	
WS-AOC15-AS-31	1710465-10	Product/Solid		SW-846 8082A	
WS-AOC15-AS-32	1710465-11	Product/Solid		SW-846 8082A	
WS-AOC15-AS-33	1710465-12	Product/Solid		SW-846 8082A	
WS-AOC15-AS-34	1710465-13	Product/Solid		SW-846 8082A	
WS-AOC15-AS-35	1710465-14	Product/Solid		SW-846 8082A	
WS-AOC15-AS-36	1710465-15	Product/Solid		SW-846 8082A	
WS-AOC15-AS-37	1710465-16	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-1	1710465-17	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-2	1710465-18	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-3	1710465-19	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-4	1710465-20	Product/Solid		SW-846 8082A	
WS-AOC15-AS-Dup20	1710465-21	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-Dup21	1710465-22	Product/Solid		SW-846 8082A	
WS-AOC15-SE-29	1710465-23	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 6010C-D

Qualifications:**B**

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:**Nickel**

1710465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

Zinc

1710465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:**Nickel**

1710465-23[WS-AOC15-SE-29], B186613-BLK1

Zinc

1710465-23[WS-AOC15-SE-29], B186613-BLK1

SW-846 8082A

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

1710465-02RE1[WS-AOC15-AS-22], 1710465-21[WS-AOC15-AS-Dup20], 1710465-22[WS-AOC12N-AS-Dup21]

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aroclor-1260 [2C]**

B186606-MS1, B186606-MSD1

SW-846 8270D

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710465-23[WS-AOC15-SE-29]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:**4,6-Dinitro-2-methylphenol**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**Pentachloronitrobenzene**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-21

Sampled: 9/12/2017 10:09

Sample ID: 1710465-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.1	30-150						9/27/17 16:53	
Decachlorobiphenyl [2]	93.6	30-150						9/27/17 16:53	
Tetrachloro-m-xylene [1]	87.8	30-150						9/27/17 16:53	
Tetrachloro-m-xylene [2]	91.6	30-150						9/27/17 16:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-22

Sampled: 9/12/2017 09:45

Sample ID: 1710465-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1232 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1242 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1248 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1262 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1268 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.4	30-150						9/23/17 4:23	
Decachlorobiphenyl [2]	77.6	30-150						9/23/17 4:23	
Tetrachloro-m-xylene [1]	96.9	30-150						9/23/17 4:23	
Tetrachloro-m-xylene [2]	95.5	30-150						9/23/17 4:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-23

Sampled: 9/12/2017 09:44

Sample ID: 1710465-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.7	30-150						9/27/17 17:11	
Decachlorobiphenyl [2]	75.7	30-150						9/27/17 17:11	
Tetrachloro-m-xylene [1]	82.9	30-150						9/27/17 17:11	
Tetrachloro-m-xylene [2]	85.5	30-150						9/27/17 17:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-24

Sampled: 9/12/2017 09:43

Sample ID: 1710465-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.0	30-150						9/27/17 17:29	
Decachlorobiphenyl [2]	79.5	30-150						9/27/17 17:29	
Tetrachloro-m-xylene [1]	83.4	30-150						9/27/17 17:29	
Tetrachloro-m-xylene [2]	86.3	30-150						9/27/17 17:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-25

Sampled: 9/12/2017 09:41

Sample ID: 1710465-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.1	30-150						9/27/17 17:47	
Decachlorobiphenyl [2]	88.5	30-150						9/27/17 17:47	
Tetrachloro-m-xylene [1]	87.6	30-150						9/27/17 17:47	
Tetrachloro-m-xylene [2]	89.5	30-150						9/27/17 17:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-26

Sampled: 9/12/2017 10:11

Sample ID: 1710465-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.0	30-150						9/27/17 18:04	
Decachlorobiphenyl [2]	93.6	30-150						9/27/17 18:04	
Tetrachloro-m-xylene [1]	95.5	30-150						9/27/17 18:04	
Tetrachloro-m-xylene [2]	97.5	30-150						9/27/17 18:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-27

Sampled: 9/12/2017 09:55

Sample ID: 1710465-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.2	30-150						9/27/17 18:22	
Decachlorobiphenyl [2]	88.0	30-150						9/27/17 18:22	
Tetrachloro-m-xylene [1]	97.8	30-150						9/27/17 18:22	
Tetrachloro-m-xylene [2]	100	30-150						9/27/17 18:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-28

Sampled: 9/12/2017 09:57

Sample ID: 1710465-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.5	30-150						9/27/17 18:40	
Decachlorobiphenyl [2]	94.1	30-150						9/27/17 18:40	
Tetrachloro-m-xylene [1]	95.4	30-150						9/27/17 18:40	
Tetrachloro-m-xylene [2]	97.3	30-150						9/27/17 18:40	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-30

Sampled: 9/12/2017 10:19

Sample ID: 1710465-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.6	30-150						9/27/17 18:58	
Decachlorobiphenyl [2]	97.0	30-150						9/27/17 18:58	
Tetrachloro-m-xylene [1]	97.2	30-150						9/27/17 18:58	
Tetrachloro-m-xylene [2]	99.4	30-150						9/27/17 18:58	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-31

Sampled: 9/12/2017 10:20

Sample ID: 1710465-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150						9/27/17 19:16	
Decachlorobiphenyl [2]	89.4	30-150						9/27/17 19:16	
Tetrachloro-m-xylene [1]	93.8	30-150						9/27/17 19:16	
Tetrachloro-m-xylene [2]	95.8	30-150						9/27/17 19:16	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-32

Sampled: 9/12/2017 10:21

Sample ID: 1710465-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-33

Sampled: 9/12/2017 10:22

Sample ID: 1710465-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.4	30-150						9/27/17 20:39	
Decachlorobiphenyl [2]	99.3	30-150						9/27/17 20:39	
Tetrachloro-m-xylene [1]	99.3	30-150						9/27/17 20:39	
Tetrachloro-m-xylene [2]	101	30-150						9/27/17 20:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-34

Sampled: 9/12/2017 10:23

Sample ID: 1710465-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.3	30-150						9/27/17 20:57	
Decachlorobiphenyl [2]	106	30-150						9/27/17 20:57	
Tetrachloro-m-xylene [1]	105	30-150						9/27/17 20:57	
Tetrachloro-m-xylene [2]	108	30-150						9/27/17 20:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-35

Sampled: 9/12/2017 10:24

Sample ID: 1710465-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.1	30-150						9/27/17 21:15	
Decachlorobiphenyl [2]	99.4	30-150						9/27/17 21:15	
Tetrachloro-m-xylene [1]	97.1	30-150						9/27/17 21:15	
Tetrachloro-m-xylene [2]	98.1	30-150						9/27/17 21:15	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-36

Sampled: 9/12/2017 10:25

Sample ID: 1710465-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.0	30-150						9/27/17 21:33	
Decachlorobiphenyl [2]	91.2	30-150						9/27/17 21:33	
Tetrachloro-m-xylene [1]	95.9	30-150						9/27/17 21:33	
Tetrachloro-m-xylene [2]	96.7	30-150						9/27/17 21:33	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-37

Sampled: 9/12/2017 10:26

Sample ID: 1710465-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.1	30-150						9/27/17 21:50	
Decachlorobiphenyl [2]	83.6	30-150						9/27/17 21:50	
Tetrachloro-m-xylene [1]	95.2	30-150						9/27/17 21:50	
Tetrachloro-m-xylene [2]	97.4	30-150						9/27/17 21:50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-1

Sampled: 9/12/2017 12:30

Sample ID: 1710465-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.6	30-150						9/27/17 22:08	
Decachlorobiphenyl [2]	99.5	30-150						9/27/17 22:08	
Tetrachloro-m-xylene [1]	98.7	30-150						9/27/17 22:08	
Tetrachloro-m-xylene [2]	101	30-150						9/27/17 22:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-2

Sampled: 9/12/2017 12:35

Sample ID: 1710465-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.4	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-3

Sampled: 9/12/2017 12:40

Sample ID: 1710465-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.4	30-150						9/27/17 22:44	
Decachlorobiphenyl [2]	93.0	30-150						9/27/17 22:44	
Tetrachloro-m-xylene [1]	98.9	30-150						9/27/17 22:44	
Tetrachloro-m-xylene [2]	99.1	30-150						9/27/17 22:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-4

Sampled: 9/12/2017 12:45

Sample ID: 1710465-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.5	30-150						9/27/17 23:01	
Decachlorobiphenyl [2]	89.4	30-150						9/27/17 23:01	
Tetrachloro-m-xylene [1]	96.0	30-150						9/27/17 23:01	
Tetrachloro-m-xylene [2]	97.2	30-150						9/27/17 23:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-Dup20

Sampled: 9/12/2017 00:00

Sample ID: 1710465-21

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	112	30-150						9/22/17 23:19	
Decachlorobiphenyl [2]	96.4	30-150						9/22/17 23:19	
Tetrachloro-m-xylene [1]	105	30-150						9/22/17 23:19	
Tetrachloro-m-xylene [2]	102	30-150						9/22/17 23:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-Dup21

Sampled: 9/12/2017 00:00

Sample ID: 1710465-22

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.9	30-150						9/22/17 23:36	
Decachlorobiphenyl [2]	81.6	30-150						9/22/17 23:36	
Tetrachloro-m-xylene [1]	99.6	30-150						9/22/17 23:36	
Tetrachloro-m-xylene [2]	99.4	30-150						9/22/17 23:36	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	4.0	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Acrylonitrile	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Benzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromodichloromethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromoform	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromomethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Butanone (MEK)	ND	1.6	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
sec-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
tert-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Disulfide	ND	0.24	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Tetrachloride	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorodibromomethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroform	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloromethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dibromomethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,4-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichloropropane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloropropene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Ethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Hexachlorobutadiene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Hexanone (MBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Isopropylbenzene (Cumene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Methylene Chloride	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Naphthalene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Propylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Styrene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrachloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrahydrofuran	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Toluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichloropropane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3,5-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Vinyl Chloride	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
m+p Xylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
o-Xylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	90.2	70-130							
Toluene-d8	99.2	70-130							
4-Bromofluorobenzene	107	70-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Acenaphthylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Aniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(b)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(g,h,i)perylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(k)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethoxy)methane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroisopropyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Bromophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Butylbenzylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Carbazole	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloroaniline	ND	8.5	mg/Kg dry	5	L-04	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloro-3-methylphenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chloronaphthalene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chlorophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Chrysene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenz(a,h)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenzofuran	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-butylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3,3-Dichlorobenzidine	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Diethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dimethylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dimethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4,6-Dinitro-2-methylphenol	ND	4.4	mg/Kg dry	5	V-04, V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrophenol	ND	8.5	mg/Kg dry	5	V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,6-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-octylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluorene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobutadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorocyclopentadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachloroethane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Indeno(1,2,3-cd)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Isophorone	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Methylnaphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3/4-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Naphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Nitrobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitrophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitrophenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodiphenylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodi-n-propylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachloronitrobenzene	ND	4.4	mg/Kg dry	5	V-16	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenanthrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyridine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4,5-Tetrachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4-Trichlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,5-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,6-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	47.8	30-130						9/21/17 11:47	
Phenol-d6	50.2	30-130						9/21/17 11:47	
Nitrobenzene-d5	47.7	30-130						9/21/17 11:47	
2-Fluorobiphenyl	48.2	30-130						9/21/17 11:47	
2,4,6-Tribromophenol	46.8	30-130						9/21/17 11:47	
p-Terphenyl-d14	61.5	30-130						9/21/17 11:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1254 [2]	0.18	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1260 [2]	0.49	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.1	30-150							
Decachlorobiphenyl [2]	77.2	30-150							
Tetrachloro-m-xylene [1]	74.8	30-150							
Tetrachloro-m-xylene [2]	77.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	27	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Arsenic	11	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Barium	280	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Cadmium	2.8	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Chromium	43	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Copper	540	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Lead	1900	0.96	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Mercury	0.28	0.034	mg/Kg dry	1		SW-846 7471B	9/20/17	9/20/17 12:41	TJK
Nickel	49	0.64	mg/Kg dry	1	B, B-07	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/21/17 13:13	QNW
Vanadium	110	1.3	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Zinc	920	1.3	mg/Kg dry	1	B-07, B	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.6		% Wt	1		SM 2540G	9/19/17	9/20/17 9:15	MRL

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
17I0465-23 [WS-AOC15-SE-29]	B186542	09/19/17

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186613	1.02	50.0	09/20/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186623	0.578	50.0	09/20/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-01 [WS-AOC15-AS-21]	B186600	2.00	10.0	09/19/17
17I0465-03 [WS-AOC15-AS-23]	B186600	2.00	10.0	09/19/17
17I0465-04 [WS-AOC15-AS-24]	B186600	2.00	10.0	09/19/17
17I0465-05 [WS-AOC15-AS-25]	B186600	2.00	10.0	09/19/17
17I0465-06 [WS-AOC15-AS-26]	B186600	2.00	10.0	09/19/17
17I0465-07 [WS-AOC15-AS-27]	B186600	2.00	10.0	09/19/17
17I0465-08 [WS-AOC15-AS-28]	B186600	2.00	10.0	09/19/17
17I0465-09 [WS-AOC15-AS-30]	B186600	2.00	10.0	09/19/17
17I0465-10 [WS-AOC15-AS-31]	B186600	2.00	10.0	09/19/17
17I0465-11 [WS-AOC15-AS-32]	B186600	2.00	10.0	09/19/17
17I0465-12 [WS-AOC15-AS-33]	B186600	2.00	10.0	09/19/17
17I0465-13 [WS-AOC15-AS-34]	B186600	2.00	10.0	09/19/17
17I0465-14 [WS-AOC15-AS-35]	B186600	2.00	10.0	09/19/17
17I0465-15 [WS-AOC15-AS-36]	B186600	2.00	10.0	09/19/17
17I0465-16 [WS-AOC15-AS-37]	B186600	2.00	10.0	09/19/17
17I0465-17 [WS-AOC12N-AS-1]	B186600	2.00	10.0	09/19/17
17I0465-18 [WS-AOC12N-AS-2]	B186600	2.00	10.0	09/19/17
17I0465-19 [WS-AOC12N-AS-3]	B186600	2.00	10.0	09/19/17
17I0465-20 [WS-AOC12N-AS-4]	B186600	2.00	10.0	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-21 [WS-AOC15-AS-Dup20]	B186606	2.00	10.0	09/19/17
17I0465-22 [WS-AOC12N-AS-Dup21]	B186606	2.00	10.0	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-02RE1 [WS-AOC15-AS-22]	B186709	2.04	10.0	09/20/17

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
17I0465-23 [WS-AOC15-SE-29]	B186583	10.0	10.0	09/19/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17I0465-23 [WS-AOC15-SE-29]	B186119	5.04	6.18	1	50	09/13/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186627	30.4	2.00	09/20/17

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 B186119 - SW-846 5035
Blank (B186119-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

Acetone	ND	2.5	mg/Kg wet
Acrylonitrile	ND	0.25	mg/Kg wet
Benzene	ND	0.050	mg/Kg wet
Bromobenzene	ND	0.050	mg/Kg wet
Bromodichloromethane	ND	0.050	mg/Kg wet
Bromoform	ND	0.050	mg/Kg wet
Bromomethane	ND	0.10	mg/Kg wet
2-Butanone (MEK)	ND	1.0	mg/Kg wet
n-Butylbenzene	ND	0.050	mg/Kg wet
sec-Butylbenzene	ND	0.050	mg/Kg wet
tert-Butylbenzene	ND	0.050	mg/Kg wet
Carbon Disulfide	ND	0.15	mg/Kg wet
Carbon Tetrachloride	ND	0.050	mg/Kg wet
Chlorobenzene	ND	0.050	mg/Kg wet
Chlorodibromomethane	ND	0.025	mg/Kg wet
Chloroethane	ND	0.10	mg/Kg wet
Chloroform	ND	0.10	mg/Kg wet
Chloromethane	ND	0.10	mg/Kg wet
2-Chlorotoluene	ND	0.050	mg/Kg wet
4-Chlorotoluene	ND	0.050	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet
Dibromomethane	ND	0.050	mg/Kg wet
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet
1,1-Dichloroethane	ND	0.050	mg/Kg wet
1,2-Dichloroethane	ND	0.050	mg/Kg wet
1,1-Dichloroethylene	ND	0.050	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
1,2-Dichloropropane	ND	0.050	mg/Kg wet
1,3-Dichloropropane	ND	0.025	mg/Kg wet
2,2-Dichloropropane	ND	0.050	mg/Kg wet
1,1-Dichloropropene	ND	0.10	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet
Ethylbenzene	ND	0.050	mg/Kg wet
Hexachlorobutadiene	ND	0.050	mg/Kg wet
2-Hexanone (MBK)	ND	0.50	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet
Methylene Chloride	ND	0.25	mg/Kg wet
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet
Naphthalene	ND	0.10	mg/Kg wet
n-Propylbenzene	ND	0.050	mg/Kg wet
Styrene	ND	0.050	mg/Kg wet
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet

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 B186119 - SW-846 5035
Blank (B186119-BLK1)

Prepared: 09/13/17 Analyzed: 09/18/17

Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0230		mg/Kg wet	0.0283		81.2	70-130			
Surrogate: Toluene-d8	0.0240		mg/Kg wet	0.0283		84.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0252		mg/Kg wet	0.0283		88.8	70-130			

LCS (B186119-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Acetone	0.0948	0.057	mg/Kg wet	0.113		83.7	70-130			
Acrylonitrile	0.0103	0.0057	mg/Kg wet	0.0113		90.6	70-130			
Benzene	0.00989	0.0011	mg/Kg wet	0.0113		87.3	70-130			
Bromobenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
Bromoform	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromomethane	0.0125	0.0023	mg/Kg wet	0.0113		111	70-130			
2-Butanone (MEK)	0.103	0.023	mg/Kg wet	0.113		90.5	70-130			
n-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
sec-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Carbon Disulfide	0.0980	0.0034	mg/Kg wet	0.113		86.4	70-130			
Carbon Tetrachloride	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Chlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Chlorodibromomethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Chloroethane	0.0103	0.0023	mg/Kg wet	0.0113		90.6	70-130			
Chloroform	0.0103	0.0023	mg/Kg wet	0.0113		91.2	70-130			
Chloromethane	0.00887	0.0023	mg/Kg wet	0.0113		78.3	70-130			
2-Chlorotoluene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
4-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0104	0.0057	mg/Kg wet	0.0113		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0110	0.00057	mg/Kg wet	0.0113		97.4	70-130			
Dibromomethane	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
1,2-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
trans-1,4-Dichloro-2-butene	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			
Dichlorodifluoromethane (Freon 12)	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,1-Dichloroethane	0.0101	0.0011	mg/Kg wet	0.0113		89.3	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1-Dichloroethylene	0.00943	0.0011	mg/Kg wet	0.0113		83.2	70-130			

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 B186119 - SW-846 5035										
LCS (B186119-BS1)					Prepared: 09/13/17 Analyzed: 09/18/17					
cis-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.6	70-130			
trans-1,2-Dichloroethylene	0.00971	0.0011	mg/Kg wet	0.0113		85.7	70-130			
1,2-Dichloropropane	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130			
1,3-Dichloropropane	0.0108	0.00057	mg/Kg wet	0.0113		95.5	70-130			
2,2-Dichloropropane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloropropene	0.0104	0.0023	mg/Kg wet	0.0113		91.6	70-130			
cis-1,3-Dichloropropene	0.0110	0.00057	mg/Kg wet	0.0113		97.3	70-130			
trans-1,3-Dichloropropene	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130			
Ethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
Hexachlorobutadiene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
2-Hexanone (MBK)	0.114	0.011	mg/Kg wet	0.113		101	70-130			
Isopropylbenzene (Cumene)	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130			
Methylene Chloride	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
4-Methyl-2-pentanone (MIBK)	0.115	0.011	mg/Kg wet	0.113		101	70-130			
Naphthalene	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130			
n-Propylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Styrene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,1,2-Tetrachloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,2,2-Tetrachloroethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Tetrachloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Tetrahydrofuran	0.00941	0.011	mg/Kg wet	0.0113		83.0	70-130			
Toluene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,2,3-Trichlorobenzene	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1,1-Trichloroethane	0.0108	0.0011	mg/Kg wet	0.0113		95.5	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130			
Trichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		95.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.8	70-130			
1,2,3-Trichloropropane	0.00971	0.0023	mg/Kg wet	0.0113		85.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0103	0.0011	mg/Kg wet	0.0113		90.5	70-130			
1,2,4-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Vinyl Chloride	0.00954	0.0023	mg/Kg wet	0.0113		84.2	70-130			
m+p Xylene	0.0227	0.0023	mg/Kg wet	0.0227		100	70-130			
o-Xylene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0267		mg/Kg wet	0.0283		94.4	70-130			
Surrogate: Toluene-d8	0.0279		mg/Kg wet	0.0283		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0283		mg/Kg wet	0.0283		100	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-04, V-19, V-20
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19, V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.43		mg/Kg wet	6.67		66.4	30-130			
Surrogate: Phenol-d6	4.62		mg/Kg wet	6.67		69.3	30-130			
Surrogate: Nitrobenzene-d5	2.30		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2,4,6-Tribromophenol	3.98		mg/Kg wet	6.67		59.8	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.33		81.5	30-130			
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140			
Aniline	0.956	0.34	mg/Kg wet	1.67		57.4	40-140			†
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Benzo(k)fluoranthene	0.979	0.17	mg/Kg wet	1.67		58.7	40-140			
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7	40-140			
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		75.1	40-140			
Bis(2-Ethylhexyl)phthalate	1.29	0.34	mg/Kg wet	1.67		77.4	40-140			
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Butylbenzylphthalate	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
Carbazole	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
4-Chloroaniline	0.603	0.66	mg/Kg wet	1.67		36.2	* 40-140			L-04 †
4-Chloro-3-methylphenol	1.05	0.66	mg/Kg wet	1.67		62.9	30-130			
2-Chloronaphthalene	1.05	0.34	mg/Kg wet	1.67		63.3	40-140			
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0	30-130			
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.1	40-140			
Chrysene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140			
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Dibenzofuran	1.03	0.34	mg/Kg wet	1.67		62.0	40-140			
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.5	40-140			
3,3-Dichlorobenzidine	1.44	0.17	mg/Kg wet	1.67		86.4	40-140			†
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130			
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.3	40-140			
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.1	30-130			
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		65.0	40-140			
4,6-Dinitro-2-methylphenol	1.24	0.34	mg/Kg wet	1.67		74.6	30-130			

V-04, V-19, V-20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS (B186627-BS1)										
					Prepared: 09/20/17		Analyzed: 09/21/17			
2,4-Dinitrophenol	1.11	0.66	mg/Kg wet	1.67		66.3	30-130			V-19, V-20
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140			
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Di-n-octylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140			
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140			
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140			
Hexachlorocyclopentadiene	1.03	0.34	mg/Kg wet	1.67		61.8	30-140			
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.3	40-140			
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140			
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.2	30-130			
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130			
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
2-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.5	40-140			
3-Nitroaniline	0.938	0.34	mg/Kg wet	1.67		56.3	40-140			†
4-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6	40-140			
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140			
2-Nitrophenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130			
4-Nitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0	10-130			
N-Nitrosodiphenylamine	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.4	40-140			
Pentachloronitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			V-16
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Phenol	1.08	0.34	mg/Kg wet	1.67		64.7	20-130			
Pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Pyridine	0.784	0.34	mg/Kg wet	1.67		47.0	10-140			†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
2,4,5-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.1	30-130			
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130			
Surrogate: 2-Fluorophenol	4.49		mg/Kg wet	6.67		67.3	30-130			
Surrogate: Phenol-d6	4.53		mg/Kg wet	6.67		67.9	30-130			
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.33		mg/Kg wet	3.33		69.8	30-130			
Surrogate: 2,4,6-Tribromophenol	4.28		mg/Kg wet	6.67		64.2	30-130			
Surrogate: p-Terphenyl-d14	2.21		mg/Kg wet	3.33		66.2	30-130			
LCS Dup (B186627-BS1)										
					Prepared: 09/20/17		Analyzed: 09/21/17			
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.350	30	
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140	0.900	30	
Aniline	0.908	0.34	mg/Kg wet	1.67		54.5	40-140	5.15	50	† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	3.64	30	
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.92	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	5.08	30	
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	5.23	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	5.90	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	6.43	30	
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	3.36	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS Dup (B186627-BSD1)					Prepared: 09/20/17 Analyzed: 09/21/17					
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1	40-140	3.69	30	
Bis(2-chloroisopropyl)ether	1.19	0.34	mg/Kg wet	1.67		71.1	40-140	5.42	30	
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		74.7	40-140	3.55	30	
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.67		71.5	40-140	4.17	30	
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	3.15	30	
Carbazole	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	3.16	30	
4-Chloroaniline	0.561	0.66	mg/Kg wet	1.67		33.7	* 40-140	7.16	30	L-04 †
4-Chloro-3-methylphenol	1.04	0.66	mg/Kg wet	1.67		62.3	30-130	0.959	30	
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	1.13	30	
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.5	30-130	3.89	30	
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		64.7	40-140	0.586	30	
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.06	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	8.39	30	
Dibenzofuran	1.04	0.34	mg/Kg wet	1.67		62.6	40-140	1.06	30	
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	3.06	30	
3,3-Dichlorobenzidine	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	5.91	30	† ‡
2,4-Dichlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0	30-130	2.34	30	
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	0.192	30	
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.4	30-130	2.71	30	
Dimethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.5	40-140	0.742	50	
4,6-Dinitro-2-methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4	30-130	2.36	50	V-04, V-19, V-20
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.3	30-130	3.03	50	V-19, V-20
2,4-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		73.5	40-140	0.929	30	
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	0.505	30	
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.67		71.7	40-140	7.95	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	4.10	30	
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	0.860	30	
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	1.03	30	
Hexachlorobutadiene	0.976	0.34	mg/Kg wet	1.67		58.5	40-140	5.90	30	
Hexachlorocyclopentadiene	1.04	0.34	mg/Kg wet	1.67		62.7	30-140	1.48	50	
Hexachloroethane	0.969	0.34	mg/Kg wet	1.67		58.1	40-140	6.88	50	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	6.87	50	
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	3.01	30	
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.36	30	
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.1	30-130	1.73	30	
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.9	30-130	1.92	30	
Naphthalene	0.974	0.17	mg/Kg wet	1.67		58.4	40-140	3.33	30	
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	1.09	30	
3-Nitroaniline	0.928	0.34	mg/Kg wet	1.67		55.7	40-140	1.04	30	†
4-Nitroaniline	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	1.93	30	
Nitrobenzene	1.10	0.34	mg/Kg wet	1.67		65.7	40-140	5.71	30	
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		72.1	30-130	4.32	30	
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.5	10-130	0.721	50	‡
N-Nitrosodiphenylamine	1.46	0.34	mg/Kg wet	1.67		87.7	40-140	5.00	30	
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	3.81	30	
Pentachloronitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	3.91	30	V-16
Pentachlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130	3.92	50	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	4.34	30	
Phenol	1.04	0.34	mg/Kg wet	1.67		62.6	20-130	3.21	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	5.68	30	
Pyridine	0.714	0.34	mg/Kg wet	1.67		42.8	10-140	9.35	50	†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.5	40-140	1.54	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B186627 - SW-846 3546
LCS Dup (B186627-BSD1)

Prepared: 09/20/17 Analyzed: 09/21/17

1,2,4-Trichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	4.91	30	
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.7	30-130	0.740	30	
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130	0.275	50	
Surrogate: 2-Fluorophenol	4.21		mg/Kg wet	6.67		63.1	30-130			
Surrogate: Phenol-d6	4.31		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.31		mg/Kg wet	3.33		69.3	30-130			
Surrogate: 2,4,6-Tribromophenol	4.31		mg/Kg wet	6.67		64.7	30-130			
Surrogate: p-Terphenyl-d14	2.27		mg/Kg wet	3.33		68.0	30-130			

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 B186583 - SW-846 3540C
Blank (B186583-BLK1)

Prepared: 09/19/17 Analyzed: 09/21/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.6	30-150			

LCS (B186583-BS1)

Prepared: 09/19/17 Analyzed: 09/21/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.0	40-140			
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.1	30-150			

LCS Dup (B186583-BSD1)

Prepared: 09/19/17 Analyzed: 09/21/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140	11.1	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	6.92	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	6.32	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	5.03	30	
Surrogate: Decachlorobiphenyl	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.0	30-150			

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 B186600 - SW-846 3540C
Blank (B186600-BLK1)

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.957		mg/Kg	1.00		95.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.907		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.926		mg/Kg	1.00		92.6	30-150			

LCS (B186600-BS1)

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	0.85	0.10	mg/Kg	1.00		85.1	40-140			
Aroclor-1016 [2C]	0.87	0.10	mg/Kg	1.00		86.8	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.7	40-140			
Aroclor-1260 [2C]	0.85	0.10	mg/Kg	1.00		84.6	40-140			
Surrogate: Decachlorobiphenyl	0.907		mg/Kg	1.00		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.992		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.847		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.876		mg/Kg	1.00		87.6	30-150			

LCS Dup (B186600-BSD1)

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	0.91	0.10	mg/Kg	1.00		91.5	40-140	7.22	30	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.1	40-140	3.73	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.8	40-140	5.94	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.2	40-140	3.06	30	
Surrogate: Decachlorobiphenyl	0.933		mg/Kg	1.00		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.921		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.924		mg/Kg	1.00		92.4	30-150			

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 B186600 - SW-846 3540C

Matrix Spike (B186600-MS1)

Source: 1710465-07

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	1.0	1.0	mg/Kg	1.00	ND	99.8	40-140			
Aroclor-1016 [2C]	1.0	1.0	mg/Kg	1.00	ND	101	40-140			
Aroclor-1260	0.84	1.0	mg/Kg	1.00	ND	84.3	40-140			
Aroclor-1260 [2C]	0.85	1.0	mg/Kg	1.00	ND	84.8	40-140			
Surrogate: Decachlorobiphenyl	0.700		mg/Kg	1.00		70.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.799		mg/Kg	1.00		79.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.894		mg/Kg	1.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.901		mg/Kg	1.00		90.1	30-150			

Matrix Spike Dup (B186600-MSD1)

Source: 1710465-07

Prepared: 09/19/17 Analyzed: 09/27/17

Aroclor-1016	0.94	1.0	mg/Kg	1.00	ND	94.3	40-140	5.66	50	
Aroclor-1016 [2C]	0.94	1.0	mg/Kg	1.00	ND	94.1	40-140	7.48	50	
Aroclor-1260	0.81	1.0	mg/Kg	1.00	ND	81.0	40-140	3.99	50	
Aroclor-1260 [2C]	0.81	1.0	mg/Kg	1.00	ND	80.9	40-140	4.64	50	
Surrogate: Decachlorobiphenyl	0.675		mg/Kg	1.00		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.775		mg/Kg	1.00		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.854		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.864		mg/Kg	1.00		86.4	30-150			

Batch B186606 - SW-846 3540C

Blank (B186606-BLK1)

Prepared: 09/19/17 Analyzed: 09/22/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.14		mg/Kg	1.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104	30-150			

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 B186606 - SW-846 3540C

LCS (B186606-BS1)

Prepared: 09/19/17 Analyzed: 09/22/17

Aroclor-1016	1.0	0.10	mg/Kg	1.00		101	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		104	40-140			
Aroclor-1260	0.96	0.10	mg/Kg	1.00		96.0	40-140			
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.1	40-140			
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104	30-150			

LCS Dup (B186606-BS1)

Prepared: 09/19/17 Analyzed: 09/22/17

Aroclor-1016	0.95	0.10	mg/Kg	1.00		94.8	40-140	6.81	30	
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00		96.3	40-140	8.14	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.7	40-140	7.91	30	
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00		82.5	40-140	6.53	30	
Surrogate: Decachlorobiphenyl	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.896		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.918		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.942		mg/Kg	1.00		94.2	30-150			

Matrix Spike (B186606-MS1)

Source: 1710465-21

Prepared: 09/19/17 Analyzed: 09/23/17

Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140			
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00	ND	96.5	40-140			
Aroclor-1260	0.99	0.10	mg/Kg	1.00	ND	98.5	40-140			
Aroclor-1260 [2C]	1.4	0.10	mg/Kg	1.00	ND	140	40-140			MS-22
Surrogate: Decachlorobiphenyl	0.733		mg/Kg	1.00		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.766		mg/Kg	1.00		76.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.807		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.865		mg/Kg	1.00		86.5	30-150			

Matrix Spike Dup (B186606-MSD1)

Source: 1710465-21

Prepared: 09/19/17 Analyzed: 09/23/17

Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140	0.0227	50	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00	ND	90.5	40-140	6.32	50	
Aroclor-1260	1.1	0.10	mg/Kg	1.00	ND	107	40-140	8.38	50	
Aroclor-1260 [2C]	1.5	0.10	mg/Kg	1.00	ND	152 *	40-140	8.28	50	MS-22
Surrogate: Decachlorobiphenyl	0.758		mg/Kg	1.00		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.807		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.843		mg/Kg	1.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.913		mg/Kg	1.00		91.3	30-150			

Batch B186709 - SW-846 3540C

Blank (B186709-BLK1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B186709 - SW-846 3540C

Blank (B186709-BLK1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.10		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.10		mg/Kg	1.00		110	30-150			

LCS (B186709-BS1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1016	1.1	0.10	mg/Kg	1.00		109	40-140			
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		114	40-140			
Aroclor-1260	1.0	0.10	mg/Kg	1.00		102	40-140			
Aroclor-1260 [2C]	0.99	0.10	mg/Kg	1.00		99.0	40-140			
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	1.09		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.12		mg/Kg	1.00		112	30-150			

LCS Dup (B186709-BSD1)

Prepared: 09/20/17 Analyzed: 09/23/17

Aroclor-1016	1.0	0.10	mg/Kg	1.00		103	40-140	5.77	30	
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		108	40-140	4.58	30	
Aroclor-1260	0.99	0.10	mg/Kg	1.00		98.5	40-140	3.52	30	
Aroclor-1260 [2C]	0.93	0.10	mg/Kg	1.00		93.3	40-140	5.97	30	
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.08		mg/Kg	1.00		108	30-150			

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 B186613 - SW-846 3051										
Blank (B186613-BLK1)										
Prepared & Analyzed: 09/20/17										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	0.96	0.50	mg/Kg wet							B-07
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	2.6	1.0	mg/Kg wet							B-07
LCS (B186613-BS1)										
Prepared & Analyzed: 09/20/17										
Antimony	137	5.0	mg/Kg wet	146		93.7	0-210.3			
Arsenic	150	5.0	mg/Kg wet	157		95.3	77.8-122.1			
Barium	312	5.0	mg/Kg wet	339		92.0	82-117.4			
Beryllium	52.4	0.50	mg/Kg wet	58.3		89.9	82.3-117.7			
Cadmium	200	0.50	mg/Kg wet	216		92.8	81.9-118.2			
Chromium	81.7	1.0	mg/Kg wet	88.9		92.0	78.7-120.6			
Copper	179	1.0	mg/Kg wet	184		97.5	80.4-119.6			
Lead	94.8	1.5	mg/Kg wet	94.3		101	82.4-117.8			
Nickel	144	1.0	mg/Kg wet	154		93.5	82.2-117.8			B
Selenium	201	10	mg/Kg wet	207		97.1	77.1-122.3			
Silver	34.4	1.0	mg/Kg wet	43.8		78.4	74.3-125.4			
Thallium	153	5.0	mg/Kg wet	167		91.4	78.2-121.6			
Vanadium	86.0	2.0	mg/Kg wet	100		86.0	64.8-135.2			
Zinc	205	2.0	mg/Kg wet	209		98.0	79.7-120.8			B
LCS Dup (B186613-BSD1)										
Prepared & Analyzed: 09/20/17										
Antimony	155	5.0	mg/Kg wet	146		106	0-210.3	12.7	30	
Arsenic	158	5.0	mg/Kg wet	157		101	77.8-122.1	5.76	30	
Barium	335	5.0	mg/Kg wet	339		98.9	82-117.4	7.21	30	
Beryllium	58.3	0.50	mg/Kg wet	58.3		99.9	82.3-117.7	10.6	30	
Cadmium	223	0.50	mg/Kg wet	216		103	81.9-118.2	10.8	30	
Chromium	88.9	1.0	mg/Kg wet	88.9		100	78.7-120.6	8.40	30	
Copper	195	1.0	mg/Kg wet	184		106	80.4-119.6	8.30	30	
Lead	97.5	1.5	mg/Kg wet	94.3		103	82.4-117.8	2.79	30	
Nickel	161	1.0	mg/Kg wet	154		105	82.2-117.8	11.3	30	B
Selenium	214	10	mg/Kg wet	207		104	77.1-122.3	6.42	30	
Silver	36.8	1.0	mg/Kg wet	43.8		83.9	74.3-125.4	6.78	30	
Thallium	163	5.0	mg/Kg wet	167		97.7	78.2-121.6	6.68	30	
Vanadium	97.3	2.0	mg/Kg wet	100		97.3	64.8-135.2	12.4	30	
Zinc	225	2.0	mg/Kg wet	209		108	79.7-120.8	9.46	30	B

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 B186613 - SW-846 3051										
MRL Check (B186613-MRL1)					Prepared: 09/20/17 Analyzed: 09/21/17					
Lead	0.618	0.69	mg/Kg wet	0.689		89.7	80-120			
Batch B186623 - SW-846 7471										
Blank (B186623-BLK1)					Prepared & Analyzed: 09/20/17					
Mercury	ND	0.025	mg/Kg wet							
LCS (B186623-BS1)					Prepared & Analyzed: 09/20/17					
Mercury	9.90	1.9	mg/Kg wet	9.36		106	73.7-126.3			
LCS Dup (B186623-BSD1)					Prepared & Analyzed: 09/20/17					
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	3.63	30	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC15-SE-29

Lab Sample ID: 17I0465-23 Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.18	18.2
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.49	33.3

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-03	Elevated reporting limit due to matrix.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-12	Elevated reporting limit due to matrix interference.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
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
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Fluorene	CT,NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

English Station

510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotiak

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Other: ☐	
Rush Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☐
Other: ☐	
Enhanced Data Package Required: ☐	
Email To: beelerm@wseinc.com	
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-AOCIS - AS-21	9/12/17	1003	X		O	U
02	WS-AOCIS - AS-22		945				
03	WS-AOCIS - AS-23		944				
04	WS-AOCIS - AS-24		943				
05	WS-AOCIS - AS-25		941				
06	WS-AOCIS - AS-26		1011				
07	WS-AOCIS - AS-27		955				
08	WS-AOCIS - AS-28		957				
09	WS-AOCIS - AS-30		1019				
10	WS-AOCIS - AS-31		1020				

Comments: * - WS-AOCIS - AS-27 - Run MS/MSD
Duplicate

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature)	Date/Time: 9/12/17	Detection Limit Requirements	MA
	Date/Time: 9/12/17		
	Date/Time: 9/12/17		
	Date/Time: 9/12/17		
Relinquished by (signature)	Date/Time: 9/12/17		RES DEC
Relinquished by (signature)	Date/Time: 9/12/17		
Relinquished by (signature)	Date/Time: 9/12/17		
Relinquished by (signature)	Date/Time: 9/12/17		

Relinquished by (signature)	Date/Time: 9/12/17	Other:
Relinquished by (signature)	Date/Time: 9/12/17	
Relinquished by (signature)	Date/Time: 9/12/17	
Relinquished by (signature)	Date/Time: 9/12/17	

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

# of Containers	
Preservation Code	
Container Code	
Dissolved Metals Samples	
☐ Field Filtered	
☐ Lab to Filter	
Orthophosphate Samples	
☐ Field Filtered	
☐ Lab to Filter	

¹ Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)
P = Pers Med

² Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

³ Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

ANALYSIS REQUESTED

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@wyseinc.com
Fax To #:	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC15-AS-32	9/12/17	1021		X	O	U
12	WS-AOC15-AS-33		1022				
13	WS-AOC15-AS-34		1023				
14	WS-AOC15-AS-35		1024				
15	WS-AOC15-AS-36		1025				
16	WS-AOC15-AS-37		1026				
17	WS-AOC12N-AS-1		1230				
18	WS-AOC12N-AS-2		1235				
19	WS-AOC12N-AS-3		1240				
20	WS-AOC12N-AS-4		1245				

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Detection Limit Requirements

MA

CT

Other:

RES DEC

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

Date/Time: 9/12/17

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

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF

Date 9/12/17

Time 11:10

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4°C
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T MS/MSD? NA

Were trip blanks received? F Is splitting samples required? F

Do all samples have the proper pH? On COC? NA 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-	<u>1</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	<u>2</u>	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		<u>9/12/17 11:10</u>

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0465

Laboratory Sample ID(s):

17I0465-01 thru 17I0465-23

Sample Date(s):

09/12/2017

List RCP Methods Used:

, , SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☒ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☒ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/28/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0112-01	7
17I0112-02	10
17I0112-03	12
17I0112-04	15
17I0112-05	17
17I0112-06	19
17I0112-07	22
17I0112-08	25
17I0112-09	27
17I0112-10	30
17I0112-11	33
17I0112-12	35
17I0112-13	37
17I0112-14	40
17I0112-15	42
17I0112-16	45
17I0112-17	47
17I0112-18	49
17I0112-19	51
17I0112-20	54
17I0112-21	56
17I0112-22	58

Table of Contents (continued)

17I0112-23	61
Sample Preparation Information	64
QC Data	66
Semivolatile Organic Compounds by GC/MS	66
B185922	66
B185977	67
Polychlorinated Biphenyls By GC/ECD	69
B185890	69
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	70
B185830	70
B185867	71
Petroleum Hydrocarbons Analyses	73
B185892	73
B185921	73
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	74
B185594	74
Flag/Qualifier Summary	75
Certifications	76
Chain of Custody/Sample Receipt	78

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12E-SO-5-1	1710112-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-5-2	1710112-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-1	1710112-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-2	1710112-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-3	1710112-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-1	1710112-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-2	1710112-07	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-35-3	1710112-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-1	1710112-09	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-21-2	1710112-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-3	1710112-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-1	1710112-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-2	1710112-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-3	1710112-14	Soil		SM 2540G SW-846 8082A	
WS-AOC15-SO-1-1	1710112-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC15-SO-1-2	1710112-16	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-SO-1-3	1710112-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-1	1710112-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-2	1710112-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-3	1710112-20	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-Dup47	1710112-21	Soil		SM 2540G SW-846 8082A	
Equipment Blank - 61	1710112-22	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	
Equipment Blank - 62	1710112-23	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH**Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

1710112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D**Qualifications:****RL-12**

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710112-07[WS-AOC12E-SO-35-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.4	30-150							
Decachlorobiphenyl [2]	110	30-150							
Tetrachloro-m-xylene [1]	95.8	30-150							
Tetrachloro-m-xylene [2]	91.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	86.3		50-150					9/12/17 23:59	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.2	30-150						9/16/17 14:24	
Decachlorobiphenyl [2]	103	30-150						9/16/17 14:24	
Tetrachloro-m-xylene [1]	95.4	30-150						9/16/17 14:24	
Tetrachloro-m-xylene [2]	96.1	30-150						9/16/17 14:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	94.2	30-150							
Tetrachloro-m-xylene [2]	95.9	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	69.1		50-150				9/12/17 21:20		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	91.1	30-150							
Tetrachloro-m-xylene [2]	95.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	106	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150							
Decachlorobiphenyl [2]	88.3	30-150							
Tetrachloro-m-xylene [1]	84.8	30-150							
Tetrachloro-m-xylene [2]	84.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	62.2		50-150					9/12/17 21:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	35.1	30-130							
2-Fluorobiphenyl	37.6	30-130							
p-Terphenyl-d14	42.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.8	30-150						9/16/17 15:52	
Decachlorobiphenyl [2]	86.7	30-150						9/16/17 15:52	
Tetrachloro-m-xylene [1]	88.2	30-150						9/16/17 15:52	
Tetrachloro-m-xylene [2]	92.2	30-150						9/16/17 15:52	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.4	30-150							
Decachlorobiphenyl [2]	86.1	30-150							
Tetrachloro-m-xylene [1]	89.1	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	44.9	30-130							
2-Fluorobiphenyl	53.0	30-130							
p-Terphenyl-d14	60.1	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.2	30-150							
Decachlorobiphenyl [2]	84.8	30-150							
Tetrachloro-m-xylene [1]	86.6	30-150							
Tetrachloro-m-xylene [2]	91.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.5	30-150							
Decachlorobiphenyl [2]	99.8	30-150							
Tetrachloro-m-xylene [1]	94.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	92.9		50-150					9/12/17 22:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.2	30-150						9/16/17 17:49	
Decachlorobiphenyl [2]	92.2	30-150						9/16/17 17:49	
Tetrachloro-m-xylene [1]	89.8	30-150						9/16/17 17:49	
Tetrachloro-m-xylene [2]	92.4	30-150						9/16/17 17:49	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.6	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	110	30-150							
Tetrachloro-m-xylene [2]	118	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150						9/16/17 18:24	
Decachlorobiphenyl [2]	94.8	30-150						9/16/17 18:24	
Tetrachloro-m-xylene [1]	96.3	30-150						9/16/17 18:24	
Tetrachloro-m-xylene [2]	107	30-150						9/16/17 18:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	82.0		50-150					9/12/17 18:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.4	30-150							
Decachlorobiphenyl [2]	94.3	30-150							
Tetrachloro-m-xylene [1]	87.7	30-150							
Tetrachloro-m-xylene [2]	93.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150							
Decachlorobiphenyl [2]	98.6	30-150							
Tetrachloro-m-xylene [1]	95.9	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	51.4		50-150					9/12/17 22:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.9	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	94.2	30-150							
Tetrachloro-m-xylene [2]	89.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.4	30-150						9/16/17 19:34	
Decachlorobiphenyl [2]	80.4	30-150						9/16/17 19:34	
Tetrachloro-m-xylene [1]	80.3	30-150						9/16/17 19:34	
Tetrachloro-m-xylene [2]	85.3	30-150						9/16/17 19:34	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.7	30-150							
Decachlorobiphenyl [2]	89.4	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	62.7	30-150						9/16/17 20:09	
Decachlorobiphenyl [2]	67.8	30-150						9/16/17 20:09	
Tetrachloro-m-xylene [1]	81.2	30-150						9/16/17 20:09	
Tetrachloro-m-xylene [2]	96.9	30-150						9/16/17 20:09	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	88.4		50-150					9/12/17 22:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	58.9	30-150							
Decachlorobiphenyl [2]	64.4	30-150							
Tetrachloro-m-xylene [1]	70.4	30-150							
Tetrachloro-m-xylene [2]	65.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.6	30-150							
Decachlorobiphenyl [2]	89.8	30-150							
Tetrachloro-m-xylene [1]	83.6	30-150							
Tetrachloro-m-xylene [2]	77.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	85.5	30-130							
2-Fluorobiphenyl	80.0	30-130							
p-Terphenyl-d14	80.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.3	30-150							
Decachlorobiphenyl [2]	74.0	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	79.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	73.7		50-150				9/12/17 21:02		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	86.7	30-130							
2-Fluorobiphenyl	83.4	30-130							
p-Terphenyl-d14	81.6	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.5	30-150							
Decachlorobiphenyl [2]	79.1	30-150							
Tetrachloro-m-xylene [1]	104	30-150							
Tetrachloro-m-xylene [2]	79.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:20	SCS
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
o-Terphenyl	81.8	50-150						9/12/17 21:20	

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
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

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
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185922 - SW-846 3546
Blank (B185922-BLK1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.10		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/Kg wet	3.33		89.8	30-130			

LCS (B185922-BS1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/Kg wet	3.33		78.7	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185922 - SW-846 3546

LCS Dup (B185922-BSD1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.5	30-130			

Batch B185977 - SW-846 3510C

Blank (B185977-BLK1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	87.6		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	85.2		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	82.4		µg/L	100		82.4	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185977 - SW-846 3510C
LCS (B185977-BS1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	92.6		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	93.5		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	74.5		µg/L	100		74.5	30-130			

LCS Dup (B185977-BSD1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	‡
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	98.4		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	99.8		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	86.0		µg/L	100		86.0	30-130			

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 B185890 - SW-846 3510C
Blank (B185890-BLK1)

Prepared: 09/11/17 Analyzed: 09/14/17

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.96		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.18		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.68		µg/L	2.00		83.9	30-150			

LCS (B185890-BS1)

Prepared: 09/11/17 Analyzed: 09/14/17

Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	2.02		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.80		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.12		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.63		µg/L	2.00		81.6	30-150			

LCS Dup (B185890-BSD1)

Prepared: 09/11/17 Analyzed: 09/14/17

Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.67		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	2.13		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.3	30-150			

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 B185830 - SW-846 3540C

Blank (B185830-BLK1)

Prepared: 09/08/17 Analyzed: 09/10/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			

LCS (B185830-BS1)

Prepared: 09/08/17 Analyzed: 09/10/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			

LCS Dup (B185830-BSD1)

Prepared: 09/08/17 Analyzed: 09/10/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.0	30-150			

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 B185867 - SW-846 3540C
Blank (B185867-BLK1)

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg wet	0.200		77.3	30-150			

LCS (B185867-BS1)

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			

LCS Dup (B185867-BSD1)

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185867 - SW-846 3540C

Matrix Spike (B185867-MS1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg dry	0.225		90.2	30-150			

Matrix Spike Dup (B185867-MSD1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	0.193		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		mg/Kg dry	0.228		105	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185892 - SW-846 3510C										
Blank (B185892-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0784		mg/L	0.100		78.4	50-150			
LCS (B185892-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	0.633	0.075	mg/L	1.00		63.3	60-120			
Surrogate: o-Terphenyl	0.0709		mg/L	0.100		70.9	50-150			
LCS Dup (B185892-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	0.663	0.075	mg/L	1.00		66.3	60-120	4.71	30	
Surrogate: o-Terphenyl	0.0745		mg/L	0.100		74.5	50-150			
Batch B185921 - SW-846 3546										
Blank (B185921-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.52		mg/Kg wet	3.33		75.6	50-150			
LCS (B185921-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0	60-120			
Surrogate: o-Terphenyl	2.40		mg/Kg wet	3.33		72.0	50-150			
LCS Dup (B185921-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8	60-120	6.10	30	
Surrogate: o-Terphenyl	2.51		mg/Kg wet	3.33		75.4	50-150			
Matrix Spike (B185921-MS1)				Source: 17I0112-03		Prepared: 09/11/17 Analyzed: 09/12/17				
CT ETPH	242	56	mg/Kg dry	37.3	261	-50.1 *	50-150			MS-07A
Surrogate: o-Terphenyl	2.44		mg/Kg dry	3.73		65.3	50-150			
Matrix Spike Dup (B185921-MSD1)				Source: 17I0112-03		Prepared: 09/11/17 Analyzed: 09/12/17				
CT ETPH	259	56	mg/Kg dry	37.3	261	-5.38 *	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	2.47		mg/Kg dry	3.73		66.2	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B185594 - % Solids
Duplicate (B185594-DUP5)
Source: 17I0112-01

Prepared: 09/06/17 Analyzed: 09/07/17

% Solids	78.8		% Wt		81.9			3.86	20	
----------	------	--	------	--	------	--	--	------	----	--

Duplicate (B185594-DUP6)
Source: 17I0112-02

Prepared: 09/06/17 Analyzed: 09/07/17

% Solids	81.2		% Wt		83.0			2.19	20	
----------	------	--	------	--	------	--	--	------	----	--

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC12E-SO-21-3	9/5/17	1402		X	S	U
12	WS-AOC12E-SO-25-1		1414				
13	WS-AOC12E-SO-25-2		1415				
14	WS-AOC12E-SO-25-3		1416				
15	WS-AOC15-SO-1-1		1427				
16	WS-AOC15-SO-1-2		1428				
17	WS-AOC15-SO-1-3		1429				
18	WS-AOC12E-SO-42-1		1459				
19	WS-AOC12E-SO-42-2		1500				
20	WS-AOC12E-SO-42-3		1501				

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17

Date/Time: 9/5/17 7:56

Received by: (signature)

Date/Time: 9/5/17 4:40

Relinquished by: (signature)

Date/Time: 9/5/17 16:40

Received by: (signature)

Date/Time: 9/5/17 16:40

Relinquished by: (signature)

Date/Time: 9/5/17 16:40

Received by: (signature)

Date/Time: 9/5/17 16:40

Detection Limit Requirements

MA

GT

Other:

Program Information

☐ MCP Analytical Certification Form Required

☒ RCP Analytical Certification Form Required

☐ MA State DW Form Required

PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

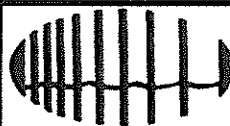
TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE

QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME

CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson
Received By JM Date 9/5/17 Time 1640
How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice
Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 3.7
By Blank # Actual Temp -
Was Custody Seal Intact? N/A Were Samples Tamed with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified?
Are there Rushes? N/A Who was notified?
Are there Short Holds? N/A Who was notified?
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	<u>6</u>	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb/Clear</u>	<u>21</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
 17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912039.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
 17I0112-22
 17I0112-23
 17I0137-01
 17H1672-11

D:\HPCHEM\1\DATA\A091217\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples

17H1672-02
 17H1672-03
 17H1672-04
 17H1672-08
 17H1672-12
 17H1672-14
 17H1672-16
 17I0112-13
 17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912038.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples

17I0112-06
 17I0112-03
 17I0112-10
 17I0112-15
 17I0112-19
 17I0297-01
 17H1672-01
 17H1672-09
 17I0112-01



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0112

Laboratory Sample ID(s):

17I0112-01 thru 17I0112-23

Sample Date(s):

09/05/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/18/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

September 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17I0112-01	7
17I0112-02	10
17I0112-03	12
17I0112-04	15
17I0112-05	17
17I0112-06	19
17I0112-07	22
17I0112-08	25
17I0112-09	27
17I0112-10	30
17I0112-11	33
17I0112-12	35
17I0112-13	37
17I0112-14	40
17I0112-15	42
17I0112-16	45
17I0112-17	47
17I0112-18	49
17I0112-19	51
17I0112-20	54
17I0112-21	56
17I0112-22	58

Table of Contents (continued)

17I0112-23	61
Sample Preparation Information	64
QC Data	66
Semivolatile Organic Compounds by GC/MS	66
B185922	66
B185977	67
Polychlorinated Biphenyls By GC/ECD	69
B185890	69
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	70
B185830	70
B185867	71
Petroleum Hydrocarbons Analyses	73
B185892	73
B185921	73
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	74
B185594	74
Flag/Qualifier Summary	75
Certifications	76
Chain of Custody/Sample Receipt	78

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12E-SO-5-1	1710112-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-5-2	1710112-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-1	1710112-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-2	1710112-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-3	1710112-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-1	1710112-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-2	1710112-07	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-35-3	1710112-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-1	1710112-09	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-21-2	1710112-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-3	1710112-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-1	1710112-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-2	1710112-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-3	1710112-14	Soil		SM 2540G SW-846 8082A	
WS-AOC15-SO-1-1	1710112-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC15-SO-1-2	1710112-16	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-SO-1-3	1710112-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-1	1710112-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-2	1710112-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-3	1710112-20	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-Dup47	1710112-21	Soil		SM 2540G SW-846 8082A	
Equipment Blank - 61	1710112-22	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	
Equipment Blank - 62	1710112-23	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH**Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

1710112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D**Qualifications:****RL-12**

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710112-07[WS-AOC12E-SO-35-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.4	30-150							
Decachlorobiphenyl [2]	110	30-150							
Tetrachloro-m-xylene [1]	95.8	30-150							
Tetrachloro-m-xylene [2]	91.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	86.3		50-150					9/12/17 23:59	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.2	30-150						9/16/17 14:24	
Decachlorobiphenyl [2]	103	30-150						9/16/17 14:24	
Tetrachloro-m-xylene [1]	95.4	30-150						9/16/17 14:24	
Tetrachloro-m-xylene [2]	96.1	30-150						9/16/17 14:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150						9/16/17 14:42	
Decachlorobiphenyl [2]	100	30-150						9/16/17 14:42	
Tetrachloro-m-xylene [1]	94.2	30-150						9/16/17 14:42	
Tetrachloro-m-xylene [2]	95.9	30-150						9/16/17 14:42	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	69.1		50-150				9/12/17 21:20		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	91.1	30-150							
Tetrachloro-m-xylene [2]	95.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	106	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150						9/16/17 15:34	
Decachlorobiphenyl [2]	88.3	30-150						9/16/17 15:34	
Tetrachloro-m-xylene [1]	84.8	30-150						9/16/17 15:34	
Tetrachloro-m-xylene [2]	84.3	30-150						9/16/17 15:34	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	62.2		50-150					9/12/17 21:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	35.1	30-130							
2-Fluorobiphenyl	37.6	30-130							
p-Terphenyl-d14	42.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.8	30-150							
Decachlorobiphenyl [2]	86.7	30-150							
Tetrachloro-m-xylene [1]	88.2	30-150							
Tetrachloro-m-xylene [2]	92.2	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.4	30-150							
Decachlorobiphenyl [2]	86.1	30-150							
Tetrachloro-m-xylene [1]	89.1	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	44.9	30-130							
2-Fluorobiphenyl	53.0	30-130							
p-Terphenyl-d14	60.1	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.2	30-150						9/16/17 16:27	
Decachlorobiphenyl [2]	84.8	30-150						9/16/17 16:27	
Tetrachloro-m-xylene [1]	86.6	30-150						9/16/17 16:27	
Tetrachloro-m-xylene [2]	91.5	30-150						9/16/17 16:27	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.5	30-150							
Decachlorobiphenyl [2]	99.8	30-150							
Tetrachloro-m-xylene [1]	94.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	92.9		50-150					9/12/17 22:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.2	30-150							
Decachlorobiphenyl [2]	92.2	30-150							
Tetrachloro-m-xylene [1]	89.8	30-150							
Tetrachloro-m-xylene [2]	92.4	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.6	30-150						9/16/17 18:07	
Decachlorobiphenyl [2]	102	30-150						9/16/17 18:07	
Tetrachloro-m-xylene [1]	110	30-150						9/16/17 18:07	
Tetrachloro-m-xylene [2]	118	30-150						9/16/17 18:07	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150						9/16/17 18:24	
Decachlorobiphenyl [2]	94.8	30-150						9/16/17 18:24	
Tetrachloro-m-xylene [1]	96.3	30-150						9/16/17 18:24	
Tetrachloro-m-xylene [2]	107	30-150						9/16/17 18:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	82.0		50-150					9/12/17 18:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.4	30-150							
Decachlorobiphenyl [2]	94.3	30-150							
Tetrachloro-m-xylene [1]	87.7	30-150							
Tetrachloro-m-xylene [2]	93.1	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.4	30-150							
Decachlorobiphenyl [2]	98.6	30-150							
Tetrachloro-m-xylene [1]	95.9	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	51.4		50-150					9/12/17 22:31	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.9	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	94.2	30-150							
Tetrachloro-m-xylene [2]	89.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.4	30-150							
Decachlorobiphenyl [2]	80.4	30-150							
Tetrachloro-m-xylene [1]	80.3	30-150							
Tetrachloro-m-xylene [2]	85.3	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/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	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.7	30-150							
Decachlorobiphenyl [2]	89.4	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	62.7	30-150						9/16/17 20:09	
Decachlorobiphenyl [2]	67.8	30-150						9/16/17 20:09	
Tetrachloro-m-xylene [1]	81.2	30-150						9/16/17 20:09	
Tetrachloro-m-xylene [2]	96.9	30-150						9/16/17 20:09	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
o-Terphenyl	88.4	50-150						9/12/17 22:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	58.9	30-150							
Decachlorobiphenyl [2]	64.4	30-150							
Tetrachloro-m-xylene [1]	70.4	30-150							
Tetrachloro-m-xylene [2]	65.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.6	30-150						9/11/17 18:49	
Decachlorobiphenyl [2]	89.8	30-150						9/11/17 18:49	
Tetrachloro-m-xylene [1]	83.6	30-150						9/11/17 18:49	
Tetrachloro-m-xylene [2]	77.2	30-150						9/11/17 18:49	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	85.5	30-130							
2-Fluorobiphenyl	80.0	30-130							
p-Terphenyl-d14	80.2	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.3	30-150							
Decachlorobiphenyl [2]	74.0	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	79.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	73.7		50-150					9/12/17 21:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	86.7	30-130							
2-Fluorobiphenyl	83.4	30-130							
p-Terphenyl-d14	81.6	30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.5	30-150							
Decachlorobiphenyl [2]	79.1	30-150							
Tetrachloro-m-xylene [1]	104	30-150							
Tetrachloro-m-xylene [2]	79.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:20	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	81.8		50-150					9/12/17 21:20	

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
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

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
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185922 - SW-846 3546
Blank (B185922-BLK1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.10		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/Kg wet	3.33		89.8	30-130			

LCS (B185922-BS1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/Kg wet	3.33		78.7	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185922 - SW-846 3546

LCS Dup (B185922-BSD1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.5	30-130			

Batch B185977 - SW-846 3510C

Blank (B185977-BLK1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	87.6		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	85.2		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	82.4		µg/L	100		82.4	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185977 - SW-846 3510C
LCS (B185977-BS1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	92.6		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	93.5		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	74.5		µg/L	100		74.5	30-130			

LCS Dup (B185977-BSD1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	‡
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	98.4		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	99.8		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	86.0		µg/L	100		86.0	30-130			

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 B185890 - SW-846 3510C
Blank (B185890-BLK1)

Prepared: 09/11/17 Analyzed: 09/14/17

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.96		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.18		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.68		µg/L	2.00		83.9	30-150			

LCS (B185890-BS1)

Prepared: 09/11/17 Analyzed: 09/14/17

Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	2.02		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.80		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.12		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.63		µg/L	2.00		81.6	30-150			

LCS Dup (B185890-BSD1)

Prepared: 09/11/17 Analyzed: 09/14/17

Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.67		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	2.13		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.3	30-150			

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 B185830 - SW-846 3540C
Blank (B185830-BLK1)

Prepared: 09/08/17 Analyzed: 09/10/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			

LCS (B185830-BS1)

Prepared: 09/08/17 Analyzed: 09/10/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			

LCS Dup (B185830-BSD1)

Prepared: 09/08/17 Analyzed: 09/10/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.0	30-150			

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 B185867 - SW-846 3540C
Blank (B185867-BLK1)

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg wet	0.200		77.3	30-150			

LCS (B185867-BS1)

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			

LCS Dup (B185867-BSD1)

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B185867 - SW-846 3540C

Matrix Spike (B185867-MS1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg dry	0.225		90.2	30-150			

Matrix Spike Dup (B185867-MSD1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	0.193		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		mg/Kg dry	0.228		105	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185892 - SW-846 3510C										
Blank (B185892-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0784		mg/L	0.100		78.4	50-150			
LCS (B185892-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	0.633	0.075	mg/L	1.00		63.3	60-120			
Surrogate: o-Terphenyl	0.0709		mg/L	0.100		70.9	50-150			
LCS Dup (B185892-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	0.663	0.075	mg/L	1.00		66.3	60-120	4.71	30	
Surrogate: o-Terphenyl	0.0745		mg/L	0.100		74.5	50-150			
Batch B185921 - SW-846 3546										
Blank (B185921-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.52		mg/Kg wet	3.33		75.6	50-150			
LCS (B185921-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0	60-120			
Surrogate: o-Terphenyl	2.40		mg/Kg wet	3.33		72.0	50-150			
LCS Dup (B185921-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8	60-120	6.10	30	
Surrogate: o-Terphenyl	2.51		mg/Kg wet	3.33		75.4	50-150			
Matrix Spike (B185921-MS1)				Source: 17I0112-03		Prepared: 09/11/17 Analyzed: 09/12/17				
CT ETPH	242	56	mg/Kg dry	37.3	261	-50.1 *	50-150			MS-07A
Surrogate: o-Terphenyl	2.44		mg/Kg dry	3.73		65.3	50-150			
Matrix Spike Dup (B185921-MSD1)				Source: 17I0112-03		Prepared: 09/11/17 Analyzed: 09/12/17				
CT ETPH	259	56	mg/Kg dry	37.3	261	-5.38 *	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	2.47		mg/Kg dry	3.73		66.2	50-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B185594 - % Solids

Duplicate (B185594-DUP5)		Source: 17I0112-01		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt		81.9			3.86	20	
Duplicate (B185594-DUP6)		Source: 17I0112-02		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt		83.0			2.19	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

English Station

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 #: ☐

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 3

Doc # 381 Rev 0 5 8 2015

Company Name:	Address:	Phone:	Project Name:	Project Location:	Project Number:	Project Manager:	Con-Test Bid:	Invoice Recipient:	Sampled By:	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
Weston & Sampson Engineers	273 Dividend Rd Rocky Hill, CT	860 513-1473	English Station	510 Grand Ave, New Haven, CT	2170495	Malcolm Beeler		Malcolm Beeler (Weston & Sampson)	Chris Berthiaume/Will Sirotnak	WS-ADG12E-SO-5-1	9/5/17	1330		X	S	U
										WS-ADG12E-SO-5-2		1331				
										WS-ADG12E-SO-17-1		1340				
										WS-ADG12E-SO-17-2		1341				
										WS-ADG12E-SO-17-3		1342				
										WS-ADG12E-SO-35-1		1403				
										WS-ADG12E-SO-35-2		1404				
										WS-ADG12E-SO-35-3		1405				
										WS-ADG12E-SO-21-1		1406				
										WS-ADG12E-SO-21-2		1407				

ANALYSIS REQUESTED

PCBs (Aroclor)
 PAHs
 ETOH
 X

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
 O = Other (please define)

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Program Information

☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____

NEIAC 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

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17

Received by: (signature) 9/5/17

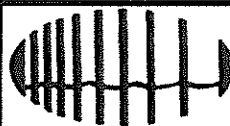
Relinquished by: (signature) 9/5/17

Received by: (signature) 9/5/17

Relinquished by: (signature)

Received by: (signature)

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/5/17 Time 1640

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 3.7
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tamed with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified?

Are there Rushes? N/A Who was notified?

Are there Short Holds? N/A Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.	<u>6</u>	1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb/Clear</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

D:\HPCHEM\1\DATA\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
 17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912039.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
 17I0112-22
 17I0112-23
 17I0137-01
 17H1672-11

D:\HPCHEM\1\DATA\A091217\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples

17H1672-02
 17H1672-03
 17H1672-04
 17H1672-08
 17H1672-12
 17H1672-14
 17H1672-16
 17I0112-13
 17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912038.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples

17I0112-06
 17I0112-03
 17I0112-10
 17I0112-15
 17I0112-19
 17I0297-01
 17H1672-01
 17H1672-09
 17I0112-01



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0112

Laboratory Sample ID(s):

17I0112-01 thru 17I0112-23

Sample Date(s):

09/05/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ 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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/18/17
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.