



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: 17H0432

Laboratory Sample ID(s):

17H0432-01 thru 17H0432-02

Sample Date(s):

07/26/2017

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: Project Manager
Printed Name: Lisa A. Worthington
Date: 08/18/17
Name of Laboratory: Con-Test Analytical Laboratory

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

August 18, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0432

Enclosed are results of analyses for samples received by the laboratory on August 9, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

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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: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0432

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-17-1	17H0432-01	Soil		SW-846 8270D	
WS-AOC-13-SO-DUP-27	17H0432-02	Soil		SW-846 8082A	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:**R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Aroclor-1016**

17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1016 [2C]

17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260

17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260 [2C]

17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

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

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



Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-17-1

Sampled: 7/26/2017 14:04

Sample ID: 17H0432-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	0.56	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Anthracene (SIM)	0.30	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)anthracene (SIM)	0.54	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)pyrene (SIM)	0.47	0.10	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(b)fluoranthene (SIM)	0.70	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(k)fluoranthene (SIM)	0.23	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Chrysene (SIM)	0.66	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluoranthene (SIM)	2.2	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.24	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Phenanthrene (SIM)	0.39	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Pyrene (SIM)	3.0	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	72.9	30-130						8/16/17 12:06	
2-Fluorobiphenyl	68.2	30-130						8/16/17 12:06	
p-Terphenyl-d14	56.3	30-130						8/16/17 12:06	

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

Sample Description:

Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-DUP-27

Sampled: 7/26/2017 00:00

Sample ID: 17H0432-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.1	30-150						8/17/17 20:30	
Decachlorobiphenyl [2]	98.2	30-150						8/17/17 20:30	
Tetrachloro-m-xylene [1]	90.4	30-150						8/17/17 20:30	
Tetrachloro-m-xylene [2]	100	30-150						8/17/17 20:30	

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Sample Extraction Data

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

Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-02 [WS-AOC-13-SO-DUP-27]	B183949	500	5.00	08/12/17

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

Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-01 [WS-AOC-13-SO-17-1]	B184190	700	0.700	08/15/17

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
Blank (B184190-BLK1)										
Prepared: 08/15/17 Analyzed: 08/16/17										
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	77.7		µg/L	100		77.7	30-130			
Surrogate: 2-Fluorobiphenyl	73.0		µg/L	100		73.0	30-130			
Surrogate: p-Terphenyl-d14	65.9		µg/L	100		65.9	30-130			
LCS (B184190-BS1)										
Prepared: 08/15/17 Analyzed: 08/16/17										
Acenaphthene (SIM)	43.6	7.5	µg/L	50.0		87.2	40-140			
Acenaphthylene (SIM)	42.5	7.5	µg/L	50.0		85.0	40-140			
Anthracene (SIM)	46.3	5.0	µg/L	50.0		92.6	40-140			
Benzo(a)anthracene (SIM)	44.6	1.2	µg/L	50.0		89.1	40-140			
Benzo(a)pyrene (SIM)	47.3	2.5	µg/L	50.0		94.6	40-140			
Benzo(b)fluoranthene (SIM)	47.9	1.2	µg/L	50.0		95.8	40-140			
Benzo(g,h,i)perylene (SIM)	44.3	12	µg/L	50.0		88.6	40-140			
Benzo(k)fluoranthene (SIM)	46.6	5.0	µg/L	50.0		93.3	40-140			
Chrysene (SIM)	44.4	5.0	µg/L	50.0		88.7	40-140			
Dibenz(a,h)anthracene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.3	40-140			
Fluorene (SIM)	44.1	25	µg/L	50.0		88.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	44.7	5.0	µg/L	50.0		89.4	40-140			
2-Methylnaphthalene (SIM)	42.3	25	µg/L	50.0		84.6	40-140			
Naphthalene (SIM)	42.2	25	µg/L	50.0		84.3	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	45.8	25	µg/L	50.0		91.7	40-140			
Surrogate: Nitrobenzene-d5	89.6		µg/L	100		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	99.0		µg/L	100		99.0	30-130			
Surrogate: p-Terphenyl-d14	76.5		µg/L	100		76.5	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
LCS Dup (B184190-BSD1)										
Prepared: 08/15/17 Analyzed: 08/16/17										
Acenaphthene (SIM)	48.8	7.5	µg/L	50.0		97.6	40-140	11.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	11.8	20	
Anthracene (SIM)	51.6	5.0	µg/L	50.0		103	40-140	10.9	20	
Benzo(a)anthracene (SIM)	49.8	1.2	µg/L	50.0		99.6	40-140	11.1	20	
Benzo(a)pyrene (SIM)	53.1	2.5	µg/L	50.0		106	40-140	11.7	20	
Benzo(b)fluoranthene (SIM)	53.4	1.2	µg/L	50.0		107	40-140	10.8	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.2	40-140	11.2	20	
Benzo(k)fluoranthene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.6	20	
Chrysene (SIM)	49.4	5.0	µg/L	50.0		98.8	40-140	10.7	20	
Dibenz(a,h)anthracene (SIM)	50.1	5.0	µg/L	50.0		100	40-140	11.9	20	
Fluoranthene (SIM)	50.7	12	µg/L	50.0		101	40-140	10.4	20	
Fluorene (SIM)	49.3	25	µg/L	50.0		98.6	40-140	11.1	20	
Indeno(1,2,3-cd)pyrene (SIM)	50.0	5.0	µg/L	50.0		100	40-140	11.1	20	‡
2-Methylnaphthalene (SIM)	48.0	25	µg/L	50.0		96.0	40-140	12.7	20	
Naphthalene (SIM)	48.2	25	µg/L	50.0		96.5	40-140	13.5	20	
Phenanthrene (SIM)	50.3	1.2	µg/L	50.0		101	40-140	10.8	20	
Pyrene (SIM)	50.8	25	µg/L	50.0		102	40-140	10.3	20	
Surrogate: Nitrobenzene-d5	103		µg/L	100		103	30-130			
Surrogate: 2-Fluorobiphenyl	108		µg/L	100		108	30-130			
Surrogate: p-Terphenyl-d14	84.2		µg/L	100		84.2	30-130			
Matrix Spike (B184190-MS1)										
Source: 17H0432-01 Prepared: 08/15/17 Analyzed: 08/16/17										
Acenaphthene (SIM)	55.1	7.5	µg/L	71.4	0.562	76.4	40-140			
Acenaphthylene (SIM)	53.6	7.5	µg/L	71.4	0.117	74.8	40-140			
Anthracene (SIM)	57.8	5.0	µg/L	71.4	0.296	80.5	40-140			
Benzo(a)anthracene (SIM)	57.4	1.2	µg/L	71.4	0.539	79.5	40-140			
Benzo(a)pyrene (SIM)	60.8	2.5	µg/L	71.4	0.467	84.4	40-140			
Benzo(b)fluoranthene (SIM)	60.4	1.2	µg/L	71.4	0.702	83.6	40-140			
Benzo(g,h,i)perylene (SIM)	57.1	12	µg/L	71.4	0.249	79.6	40-140			
Benzo(k)fluoranthene (SIM)	58.2	5.0	µg/L	71.4	0.232	81.1	40-140			
Chrysene (SIM)	56.9	5.0	µg/L	71.4	0.658	78.7	40-140			
Dibenz(a,h)anthracene (SIM)	57.5	5.0	µg/L	71.4	0.0610	80.4	40-140			
Fluoranthene (SIM)	58.6	12	µg/L	71.4	2.22	79.0	40-140			
Fluorene (SIM)	54.9	25	µg/L	71.4	0.121	76.7	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	58.0	5.0	µg/L	71.4	0.244	80.9	40-140			
2-Methylnaphthalene (SIM)	53.3	25	µg/L	71.4	0.0960	74.5	40-140			
Naphthalene (SIM)	54.2	25	µg/L	71.4	0.385	75.3	40-140			
Phenanthrene (SIM)	56.2	1.2	µg/L	71.4	0.387	78.2	40-140			
Pyrene (SIM)	61.5	25	µg/L	71.4	2.97	81.9	40-140			
Surrogate: Nitrobenzene-d5	116		µg/L	143		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	119		µg/L	143		83.3	30-130			
Surrogate: p-Terphenyl-d14	83.7		µg/L	143		58.6	30-130			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183949 - SW-846 3510C										
Blank (B183949-BLK1)										
Prepared: 08/12/17 Analyzed: 08/17/17										
Aroclor-1016	ND	0.20	µg/L							R-05
Aroclor-1016 [2C]	ND	0.20	µg/L							R-05
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							R-05
Aroclor-1260 [2C]	ND	0.20	µg/L							R-05
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.77		µg/L	2.00		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.96		µg/L	2.00		98.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.84		µg/L	2.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.05		µg/L	2.00		102	30-150			
LCS (B183949-BS1)										
Prepared: 08/12/17 Analyzed: 08/17/17										
Aroclor-1016	0.41	0.20	µg/L	0.500		82.3	40-140			R-05
Aroclor-1016 [2C]	0.40	0.20	µg/L	0.500		80.8	40-140			R-05
Aroclor-1260	0.31	0.20	µg/L	0.500		61.2	40-140			R-05
Aroclor-1260 [2C]	0.30	0.20	µg/L	0.500		59.6	40-140			R-05
Surrogate: Decachlorobiphenyl	1.06		µg/L	2.00		52.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.16		µg/L	2.00		57.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.42		µg/L	2.00		71.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.55		µg/L	2.00		77.6	30-150			
LCS Dup (B183949-BSD1)										
Prepared: 08/12/17 Analyzed: 08/17/17										
Aroclor-1016	0.54	0.20	µg/L	0.500		109	40-140	27.5	* 20	R-05
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140	34.3	* 20	R-05
Aroclor-1260	0.46	0.20	µg/L	0.500		92.8	40-140	41.0	* 20	R-05
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		97.6	40-140	48.3	* 20	R-05
Surrogate: Decachlorobiphenyl	1.69		µg/L	2.00		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.90		µg/L	2.00		95.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.73		µg/L	2.00		86.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.92		µg/L	2.00		96.2	30-150			

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QUALITY CONTROL
SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

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

Batch B183949 - SW-846 3510C
Matrix Spike (B183949-MS1)
Source: 17H0432-02

Prepared: 08/12/17 Analyzed: 08/17/17

Aroclor-1016	0.49	0.20	µg/L	0.500	ND	97.7	40-140			R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500	ND	95.2	40-140			R-05
Aroclor-1260	0.43	0.20	µg/L	0.500	ND	85.1	40-140			R-05
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500	ND	89.5	40-140			R-05
Surrogate: Decachlorobiphenyl	1.50		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.65		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.58		µg/L	2.00		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.75		µg/L	2.00		87.6	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

No certified Analyses included in this Report

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of 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 ☐
2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☒ EXCEL ☒

Other: ☐

Enhanced Data Package Required: ☐

Email To: beelerm@wseinc.com

Fax To #:

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Client Sample ID / Description

WS-AOC13-SO-8-3

WS-AOC13-SO-17-1

WS-AOC13-SO-17-2

WS-AOC13-SO-17-3

WS-AOC13-SO-11-1

WS-AOC13-SO-11-2A

WS-AOC13-SO-11-2B

WS-AOC13-SO-11-3

WS-AOC13-SO-13-1

WS-AOC13-SO-13-2A

WS-AOC13-SO-13-2B

WS-AOC13-SO-13-2C

WS-AOC13-SO-13-2D

WS-AOC13-SO-13-2E

WS-AOC13-SO-13-2F

WS-AOC13-SO-13-2G

WS-AOC13-SO-13-2H

WS-AOC13-SO-13-2I

WS-AOC13-SO-13-2J

WS-AOC13-SO-13-2K

WS-AOC13-SO-13-2L

WS-AOC13-SO-13-2M

WS-AOC13-SO-13-2N

WS-AOC13-SO-13-2O

WS-AOC13-SO-13-2P

WS-AOC13-SO-13-2Q

WS-AOC13-SO-13-2R

WS-AOC13-SO-13-2S

WS-AOC13-SO-13-2T

WS-AOC13-SO-13-2U

ANALYSIS REQUESTED

VOCs

RSR 15 Metals

SVOCs

ETPH

PAHs

(Soxhlet) PCBs

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

WS-AOC13-SO-17-2 ETPH analysis

activated for SPLP

PAH 8/9. Hold

time up 8/9 to

leach - JG 8/9/17

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

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)

4 Program Information

MCP Analytical Certification Form Required

RCP Analytical Certification Form Required

MA State DW Form Required

PWSID #

RELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE

QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME

CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

7/26/17 1703

Page 14 of 18

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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 7/26/17 Time 1703
How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice
Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7°C
By Blank # Actual Temp -
Was Custody Seal Intact? NA Were Samples Tampered with? F
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified?
Are there Rushes? F Who was notified?
Are there Short Holds? F Who was notified?
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		<u>7/26/17 1703</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: 17H0432

Laboratory Sample ID(s):

17H0432-01 thru 17H0432-02

Sample Date(s):

07/26/2017

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: Project Manager
Printed Name: Lisa A. Worthington
Date: 08/18/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 11, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H1603

Enclosed are results of analyses for samples received by the laboratory on August 30, 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

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Chain of Custody/Sample Receipt	10

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

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1603

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-16-2	17H1603-01	Soil		SW-846 6020A-B	

CASE NARRATIVE SUMMARY

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

For method 6020, only a select list of metals was requested and reported.

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

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

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

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

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: 17H1603

Date Received: 8/30/2017

Field Sample #: WS-AOC-13-SO-16-2

Sampled: 7/26/2017 15:02

Sample ID: 17H1603-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:47	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:47	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:47	WSD

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6020A-B

Leachates were extracted on 9/5/2017 per SW-846 1312 in Batch B185509

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1603-01 [WS-AOC-13-SO-16-2]	B185650	50.0	50.0	09/06/17

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QUALITY CONTROL
SPLP - Metals Analyses - Quality Control

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

Batch B185650 - SW-846 3010A
Blank (B185650-BLK1)

Prepared: 09/06/17 Analyzed: 09/07/17

Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Vanadium	ND	25	µg/L							

LCS (B185650-BS1)

Prepared: 09/06/17 Analyzed: 09/07/17

Chromium	251	5.0	µg/L	250		100	80-120			
Lead	248	5.0	µg/L	250		99.4	80-120			
Vanadium	236	25	µg/L	250		94.3	80-120			

LCS Dup (B185650-BSD1)

Prepared: 09/06/17 Analyzed: 09/07/17

Chromium	257	5.0	µg/L	250		103	80-120	2.45	20	
Lead	251	5.0	µg/L	250		100	80-120	1.05	20	
Vanadium	241	25	µg/L	250		96.2	80-120	2.05	20	

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FLAG/QUALIFIER SUMMARY

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

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

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

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Certified Analyses included in this Report

Analyte	Certifications
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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

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 ☐

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 #

1 WS-AOC13-SO-16-1

2 WS-AOC13-SO-16-2

3 WS-AOC13-SO-16-3

4 WS-AOC13-SO-14-1

5 WS-AOC13-SO-14-2

6 WS-AOC13-SO-14-3A

7 WS-AOC13-SO-14-3B

8 WS-AOC13-SO-15-1

9 WS-AOC13-SO-15-2

10 WS-AOC13-SO-15-3

WS-AOC13-SO-15-3 (MS-MSD)

Please hold excess volumes for possible SPLP analyses.

Comments:

WS-AOC13-SO-15-3 (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

Detection Limit Requirements

MA

CI

Other

RES DEC

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)

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Received by: (signature)

Received by: (signature)

Received by: (signature)

Received by: (signature)

Received by: (signature)

Received by: (signature)

ANALYSIS REQUESTED

VOCs

RSR 15 Metals

SVDs

ETPH

PAHs

(Soxhlet) PCBs

activated for SPLP

Cr, Pb, V - 8/30

JMG

WS-AOC13-SO-16-2 ETPH per client request KS 7/31

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

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 #

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson
Received By Jm Date 7/27/17 Time 1945
How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice
Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # Actual Temp -
Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all 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:



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: 17H1603

Laboratory Sample ID(s):

17H1603-01

Sample Date(s):

07/26/2017

List RCP Methods Used:

SW-846 6020A-B

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: 09/11/17
Name of Laboratory: Con-Test Analytical Laboratory

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

September 14, 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: 17H1675

Enclosed are results of analyses for samples received by the laboratory on September 1, 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

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

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

REPORT DATE: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1675

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-SO-33	17H1675-01	Soil		SM 2540G SW-846 8082A	
WS-AOC13-SO-34	17H1675-02	Soil		SM 2540G SW-846 8082A	
WS-AOC13-SO-35	17H1675-03	Soil		SM 2540G SW-846 8082A	
WS-AOC13-SO-36	17H1675-04	Soil		SM 2540G SW-846 8082A	
WS-AOC13-SO-37	17H1675-05	Soil		SM 2540G SW-846 8082A	
WS-AOC13-SO-38	17H1675-06	Soil		SM 2540G SW-846 8082A	
WS-AOC13-SO-39	17H1675-07	Soil		SM 2540G SW-846 8082A	
WS-AOC7-SO-17-0	17H1675-08	Soil		SM 2540G SW-846 8082A	
WS-AOC7-SO-18-0	17H1675-09	Soil		SM 2540G SW-846 8082A	
WS-AOC7-SO-19-0	17H1675-10	Soil		SM 2540G SW-846 8082A	
WS-AOC7-SO-20-0	17H1675-11	Soil		SM 2540G SW-846 8082A	
WS-AOC8-SO-3-0	17H1675-12	Soil		SM 2540G SW-846 8082A	
WS-AOC9-SO-45-0	17H1675-13	Soil		SM 2540G SW-846 8082A	
WS-AOC8-SE-25	17H1675-14	Soil		CTDEP ETPH SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
WS-AOC10-SE-15	17H1675-15	Soil		SM 2540G SW-846 8082A	
Trip Blank	17H1675-16	Trip Blank Soil		SW-846 8260C	

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: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1675

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
Equipment Blank-58	17H1675-17	Equipment Blank Water		CTDEP ETPH SW-846 6020A-B SW-846 7470A 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:**DL-04**

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

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

17H1675-14[WS-AOC8-SE-25]

Thallium

17H1675-14[WS-AOC8-SE-25]

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**

17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Decachlorobiphenyl [2C]

17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Tetrachloro-m-xylene

17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Tetrachloro-m-xylene [2C]

17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

SW-846 8260C

Qualifications:**L-01**

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

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

B185788-BS1

V-16

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

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

17H1675-14[WS-AOC8-SE-25], B185515-BLK1, B185515-BS1

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:**2,2-Dichloropropane**

B185788-BS1

SW-846 8270D

Qualifications:**E**

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

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

17H1675-14[WS-AOC8-SE-25]

Pyrene

17H1675-14[WS-AOC8-SE-25]

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**

17H1675-14[WS-AOC8-SE-25], 17H1675-14RE1[WS-AOC8-SE-25], B185658-BLK1, B185658-BS1, B185658-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.

Requested reporting limit not met.

Analyte & Samples(s) Qualified:**Bis(2-Ethylhexyl)phthalate**

17H1675-17[Equipment Blank-58]

Hexachlorobenzene

17H1675-17[Equipment Blank-58]

Pentachlorophenol

17H1675-17[Equipment Blank-58]

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:**Hexachlorocyclopentadiene**

17H1675-17[Equipment Blank-58], B185658-BLK1, B185658-BS1, B185658-BSD1, B185689-BLK1, B185689-BS1, B185689-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**

17H1675-14[WS-AOC8-SE-25], 17H1675-17[Equipment Blank-58], B185658-BLK1, B185658-BS1, B185658-BSD1, B185689-BLK1, B185689-BS1, B185689-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 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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 water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

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 for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-33

Sampled: 8/31/2017 10:00

Sample ID: 17H1675-01

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	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1260 [2]	0.17	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.6	30-150							
Decachlorobiphenyl [2]	94.9	30-150							
Tetrachloro-m-xylene [1]	86.5	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-33

Sampled: 8/31/2017 10:00

Sample ID: 17H1675-01

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	91.4		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-34

Sampled: 8/31/2017 10:10

Sample ID: 17H1675-02

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	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1260 [2]	0.24	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.6	30-150						9/13/17 17:27	
Decachlorobiphenyl [2]	89.8	30-150						9/13/17 17:27	
Tetrachloro-m-xylene [1]	81.9	30-150						9/13/17 17:27	
Tetrachloro-m-xylene [2]	85.4	30-150						9/13/17 17:27	

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-34

Sampled: 8/31/2017 10:10

Sample ID: 17H1675-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-35

Sampled: 8/31/2017 10:20

Sample ID: 17H1675-03

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	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1260 [2]	0.21	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.9	30-150							
Decachlorobiphenyl [2]	94.1	30-150							
Tetrachloro-m-xylene [1]	86.5	30-150							
Tetrachloro-m-xylene [2]	88.4	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-35

Sampled: 8/31/2017 10:20

Sample ID: 17H1675-03

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	89.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-36

Sampled: 8/31/2017 10:30

Sample ID: 17H1675-04

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	9/8/17	9/13/17 18:02	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1260 [2]	0.61	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.7	30-150						9/13/17 18:02	
Decachlorobiphenyl [2]	96.6	30-150						9/13/17 18:02	
Tetrachloro-m-xylene [1]	87.8	30-150						9/13/17 18:02	
Tetrachloro-m-xylene [2]	91.9	30-150						9/13/17 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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-36

Sampled: 8/31/2017 10:30

Sample ID: 17H1675-04

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	89.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-37

Sampled: 8/31/2017 10:40

Sample ID: 17H1675-05

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	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1221 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1232 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1242 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1248 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1254 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1260 [1]	6.2	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1262 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1268 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/14/17 5:10	
Decachlorobiphenyl [2]	*	30-150			S-01			9/14/17 5:10	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/14/17 5:10	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/14/17 5:10	

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-37

Sampled: 8/31/2017 10:40

Sample ID: 17H1675-05

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	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-38

Sampled: 8/31/2017 10:50

Sample ID: 17H1675-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1260 [2]	0.32	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	83.5	30-150							
Tetrachloro-m-xylene [1]	83.8	30-150							
Tetrachloro-m-xylene [2]	84.2	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-38

Sampled: 8/31/2017 10:50

Sample ID: 17H1675-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-39

Sampled: 8/31/2017 11:00

Sample ID: 17H1675-07

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	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1260 [1]	0.14	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.6	30-150							
Decachlorobiphenyl [2]	98.1	30-150							
Tetrachloro-m-xylene [1]	89.4	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-39

Sampled: 8/31/2017 11:00

Sample ID: 17H1675-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-17-0

Sampled: 8/31/2017 11:10

Sample ID: 17H1675-08

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	9/8/17	9/13/17 19:58	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1260 [2]	0.096	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	60.4	30-150							
Decachlorobiphenyl [2]	64.1	30-150							
Tetrachloro-m-xylene [1]	61.4	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-17-0

Sampled: 8/31/2017 11:10

Sample ID: 17H1675-08

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	90.2		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-18-0

Sampled: 8/31/2017 11:15

Sample ID: 17H1675-09

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	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1260 [1]	0.86	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.7	30-150							
Decachlorobiphenyl [2]	72.6	30-150							
Tetrachloro-m-xylene [1]	64.7	30-150							
Tetrachloro-m-xylene [2]	66.6	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-18-0

Sampled: 8/31/2017 11:15

Sample ID: 17H1675-09

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	96.4		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-19-0

Sampled: 8/31/2017 11:20

Sample ID: 17H1675-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1260 [2]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	61.0	30-150						9/13/17 20:32	
Decachlorobiphenyl [2]	66.5	30-150						9/13/17 20:32	
Tetrachloro-m-xylene [1]	61.1	30-150						9/13/17 20:32	
Tetrachloro-m-xylene [2]	64.4	30-150						9/13/17 20:32	

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-19-0

Sampled: 8/31/2017 11:20

Sample ID: 17H1675-10

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	93.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-20-0

Sampled: 8/31/2017 11:30

Sample ID: 17H1675-11

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	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	53.4	30-150							
Decachlorobiphenyl [2]	58.3	30-150							
Tetrachloro-m-xylene [1]	56.8	30-150							
Tetrachloro-m-xylene [2]	58.9	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-20-0

Sampled: 8/31/2017 11:30

Sample ID: 17H1675-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SO-3-0

Sampled: 8/31/2017 11:40

Sample ID: 17H1675-12

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	9/8/17	9/13/17 21:07	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1260 [2]	0.31	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	42.7	30-150							
Decachlorobiphenyl [2]	56.5	30-150							
Tetrachloro-m-xylene [1]	44.1	30-150							
Tetrachloro-m-xylene [2]	45.2	30-150							

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SO-3-0

Sampled: 8/31/2017 11:40

Sample ID: 17H1675-12

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	80.0		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC9-SO-45-0

Sampled: 8/31/2017 12:00

Sample ID: 17H1675-13

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	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1260 [1]	0.27	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.2	30-150							
Decachlorobiphenyl [2]	69.9	30-150							
Tetrachloro-m-xylene [1]	64.3	30-150							
Tetrachloro-m-xylene [2]	66.1	30-150							

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC9-SO-45-0

Sampled: 8/31/2017 12:00

Sample ID: 17H1675-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Acrylonitrile	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Carbon Disulfide	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

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	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	104	70-130						9/5/17 14:37	
Toluene-d8	104	70-130						9/5/17 14:37	
4-Bromofluorobenzene	99.8	70-130						9/5/17 14:37	

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Acenaphthene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Acenaphthylene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Aniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Aniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Anthracene	0.49	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Anthracene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(a)anthracene	2.4	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(a)anthracene	2.1	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(a)pyrene	1.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(a)pyrene	1.8	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(b)fluoranthene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(b)fluoranthene	2.9	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(g,h,i)perylene	1.4	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(g,h,i)perylene	1.2	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(k)fluoranthene	1.0	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(k)fluoranthene	1.2	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroethoxy)methane	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroethoxy)methane	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroethyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroethyl)ether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroisopropyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Bromophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Bromophenylphenylether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Butylbenzylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Butylbenzylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Carbazole	0.53	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Carbazole	0.49	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chloroaniline	ND	0.87	mg/Kg dry	1	L-04	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	2	L-04	SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chloro-3-methylphenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Chloronaphthalene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Chloronaphthalene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Chlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Chlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chlorophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chlorophenylphenylether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Chrysene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Chrysene	2.6	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	0.38	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dibenz(a,h)anthracene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Dibenzofuran	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dibenzofuran	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Di-n-butylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Di-n-butylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3,3-Dichlorobenzidine	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Diethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Diethylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dimethylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dimethylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Dimethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dimethylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4,6-Dinitro-2-methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4,6-Dinitro-2-methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dinitrophenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dinitrotoluene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,6-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,6-Dinitrotoluene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Di-n-octylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Di-n-octylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Fluoranthene	7.5	0.22	mg/Kg dry	1	E	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Fluoranthene	6.3	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Fluorene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorobutadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorobutadiene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorocyclopentadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorocyclopentadiene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachloroethane	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachloroethane	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Isophorone	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Isophorone	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Methylnaphthalene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3/4-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3/4-Methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Naphthalene	0.23	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Naphthalene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Nitrobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Nitrobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Nitrophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Nitrophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Nitrophenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
N-Nitrosodiphenylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
N-Nitrosodiphenylamine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
N-Nitrosodi-n-propylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
N-Nitrosodi-n-propylamine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pentachloronitrobenzene	ND	0.45	mg/Kg dry	1	V-16	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pentachloronitrobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pentachlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pentachlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Phenanthrene	4.1	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Phenanthrene	3.6	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Phenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Phenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pyrene	6.9	0.22	mg/Kg dry	1	E	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pyrene	5.1	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pyridine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pyridine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
1,2,4-Trichlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
1,2,4-Trichlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4,5-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4,5-Trichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4,6-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4,6-Trichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	46.8	30-130	

9/8/17 16:13

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2-Fluorophenol	39.8	30-130					9/11/17 16:08		
Phenol-d6	47.3	30-130					9/8/17 16:13		
Phenol-d6	41.7	30-130					9/11/17 16:08		
Nitrobenzene-d5	50.2	30-130					9/8/17 16:13		
Nitrobenzene-d5	46.1	30-130					9/11/17 16:08		
2-Fluorobiphenyl	50.5	30-130					9/8/17 16:13		
2-Fluorobiphenyl	48.4	30-130					9/11/17 16:08		
2,4,6-Tribromophenol	49.2	30-130					9/8/17 16:13		
2,4,6-Tribromophenol	44.8	30-130					9/11/17 16:08		
p-Terphenyl-d14	63.4	30-130					9/8/17 16:13		
p-Terphenyl-d14	49.9	30-130					9/11/17 16:08		

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

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	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1254 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1260 [1]	2.4	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.6	30-150						9/14/17 5:27	
Decachlorobiphenyl [2]	78.4	30-150						9/14/17 5:27	
Tetrachloro-m-xylene [1]	64.7	30-150						9/14/17 5:27	
Tetrachloro-m-xylene [2]	65.6	30-150						9/14/17 5:27	

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	600	66	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/13/17 11:53	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	69.8		50-150				9/13/17 11:53		

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	30	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Arsenic	39	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Barium	430	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Cadmium	3.9	0.33	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Chromium	100	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Copper	310	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Lead	1400	0.98	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Mercury	0.21	0.033	mg/Kg dry	1		SW-846 7471B	9/6/17	9/7/17 14:15	TJK
Nickel	180	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Silver	ND	13	mg/Kg dry	20	DL-04	SW-846 6010C-D	9/6/17	9/8/17 13:18	QNW
Thallium	ND	65	mg/Kg dry	20	DL-04	SW-846 6010C-D	9/6/17	9/8/17 13:18	QNW
Vanadium	1400	1.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Zinc	1300	1.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25

Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

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	76.3		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC10-SE-15

Sampled: 8/31/2017 13:00

Sample ID: 17H1675-15

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	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1221 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1232 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1242 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1248 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1254 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1260 [2]	430	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1262 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1268 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/14/17 6:54	
Decachlorobiphenyl [2]	*	30-150			S-01			9/14/17 6:54	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/14/17 6:54	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/14/17 6:54	

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC10-SE-15

Sampled: 8/31/2017 13:00

Sample ID: 17H1675-15

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	77.6		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Trip Blank

Sampled: 8/31/2017 00:00

Sample ID: 17H1675-16

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.18	0.10	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Trip Blank

Sampled: 8/31/2017 00:00

Sample ID: 17H1675-16

Sample Matrix: Trip Blank 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	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.0	70-130						9/6/17 15:22	
Toluene-d8	93.7	70-130						9/6/17 15:22	
4-Bromofluorobenzene	88.7	70-130						9/6/17 15:22	

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD

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

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

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	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	117	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	96.4	70-130							

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

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	9/7/17	9/11/17 15:02	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

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
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	42.3	15-110							
Phenol-d6	25.7	15-110							
Nitrobenzene-d5	70.2	30-130							
Nitrobenzene-d5	69.6	30-130							
2-Fluorobiphenyl	70.6	30-130							
2-Fluorobiphenyl	72.2	30-130							
2,4,6-Tribromophenol	82.1	15-110							
p-Terphenyl-d14	63.2	30-130							
p-Terphenyl-d14	90.0	30-130							

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1221 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1232 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1242 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1248 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1254 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1260 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1262 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1268 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	56.2	30-150							
Decachlorobiphenyl [2]	60.4	30-150							
Tetrachloro-m-xylene [1]	76.8	30-150							
Tetrachloro-m-xylene [2]	75.7	30-150							

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

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	9/7/17	9/12/17 19:15	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	88.8		50-150					9/12/17 19:15	

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

Sample Description:

Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58

Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/6/17	9/7/17 9:06	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD

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Sample Extraction Data**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185980	30.0	1.00	09/12/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185690	1000	1.00	09/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1675-01 [WS-AOC13-SO-33]	B185578	09/06/17
17H1675-02 [WS-AOC13-SO-34]	B185578	09/06/17
17H1675-03 [WS-AOC13-SO-35]	B185578	09/06/17
17H1675-04 [WS-AOC13-SO-36]	B185578	09/06/17
17H1675-05 [WS-AOC13-SO-37]	B185578	09/06/17
17H1675-06 [WS-AOC13-SO-38]	B185578	09/06/17
17H1675-07 [WS-AOC13-SO-39]	B185578	09/06/17
17H1675-08 [WS-AOC7-SO-17-0]	B185578	09/06/17
17H1675-09 [WS-AOC7-SO-18-0]	B185578	09/06/17
17H1675-10 [WS-AOC7-SO-19-0]	B185578	09/06/17
17H1675-11 [WS-AOC7-SO-20-0]	B185578	09/06/17
17H1675-12 [WS-AOC8-SO-3-0]	B185578	09/06/17
17H1675-13 [WS-AOC9-SO-45-0]	B185578	09/06/17
17H1675-14 [WS-AOC8-SE-25]	B185578	09/06/17
17H1675-15 [WS-AOC10-SE-15]	B185578	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185638	1.00	50.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185847	50.0	50.0	09/08/17

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185607	6.00	6.00	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185635	0.604	50.0	09/06/17

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Sample Extraction Data**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-01 [WS-AOC13-SO-33]	B185858	10.3	10.0	09/08/17
17H1675-02 [WS-AOC13-SO-34]	B185858	10.4	10.0	09/08/17
17H1675-03 [WS-AOC13-SO-35]	B185858	10.3	10.0	09/08/17
17H1675-04 [WS-AOC13-SO-36]	B185858	10.4	10.0	09/08/17
17H1675-05 [WS-AOC13-SO-37]	B185858	10.2	10.0	09/08/17
17H1675-06 [WS-AOC13-SO-38]	B185858	10.0	10.0	09/08/17
17H1675-07 [WS-AOC13-SO-39]	B185858	10.0	10.0	09/08/17
17H1675-08 [WS-AOC7-SO-17-0]	B185858	10.0	10.0	09/08/17
17H1675-09 [WS-AOC7-SO-18-0]	B185858	10.3	10.0	09/08/17
17H1675-10 [WS-AOC7-SO-19-0]	B185858	10.4	10.0	09/08/17
17H1675-11 [WS-AOC7-SO-20-0]	B185858	10.1	10.0	09/08/17
17H1675-12 [WS-AOC8-SO-3-0]	B185858	10.0	10.0	09/08/17
17H1675-13 [WS-AOC9-SO-45-0]	B185858	10.1	10.0	09/08/17
17H1675-14 [WS-AOC8-SE-25]	B185858	10.1	10.0	09/08/17
17H1675-15 [WS-AOC10-SE-15]	B185858	10.3	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185770	950	9.00	09/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185515	5.92	10.0	09/05/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-16 [Trip Blank]	B185582	5.00	10.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185788	5	5.00	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185658	30.0	1.00	09/06/17
17H1675-14RE1 [WS-AOC8-SE-25]	B185658	30.0	1.00	09/06/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185689	1000	1.00	09/07/17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185949	1000	1.00	09/07/17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185515 - SW-846 5035
Blank (B185515-BLK1)

Prepared & Analyzed: 09/05/17

Acetone	ND	0.10	mg/Kg wet
Acrylonitrile	ND	0.0060	mg/Kg wet
Benzene	ND	0.0020	mg/Kg wet
Bromobenzene	ND	0.0020	mg/Kg wet
Bromodichloromethane	ND	0.0020	mg/Kg wet
Bromoform	ND	0.0020	mg/Kg wet
Bromomethane	ND	0.010	mg/Kg wet
2-Butanone (MEK)	ND	0.040	mg/Kg wet
n-Butylbenzene	ND	0.0020	mg/Kg wet
sec-Butylbenzene	ND	0.0020	mg/Kg wet
tert-Butylbenzene	ND	0.0020	mg/Kg wet
Carbon Disulfide	ND	0.0060	mg/Kg wet
Carbon Tetrachloride	ND	0.0020	mg/Kg wet
Chlorobenzene	ND	0.0020	mg/Kg wet
Chlorodibromomethane	ND	0.0010	mg/Kg wet
Chloroethane	ND	0.020	mg/Kg wet
Chloroform	ND	0.0040	mg/Kg wet
Chloromethane	ND	0.010	mg/Kg wet
2-Chlorotoluene	ND	0.0020	mg/Kg wet
4-Chlorotoluene	ND	0.0020	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet
Dibromomethane	ND	0.0020	mg/Kg wet
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet
1,1-Dichloroethane	ND	0.0020	mg/Kg wet
1,2-Dichloroethane	ND	0.0020	mg/Kg wet
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet
1,2-Dichloropropane	ND	0.0020	mg/Kg wet
1,3-Dichloropropane	ND	0.0010	mg/Kg wet
2,2-Dichloropropane	ND	0.0020	mg/Kg wet
1,1-Dichloropropene	ND	0.0020	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet
Ethylbenzene	ND	0.0020	mg/Kg wet
Hexachlorobutadiene	ND	0.0020	mg/Kg wet
2-Hexanone (MBK)	ND	0.020	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet
Methylene Chloride	ND	0.020	mg/Kg wet
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet
Naphthalene	ND	0.0040	mg/Kg wet
n-Propylbenzene	ND	0.0020	mg/Kg wet
Styrene	ND	0.0020	mg/Kg wet
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185515 - SW-846 5035
Blank (B185515-BLK1)

Prepared & Analyzed: 09/05/17

Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0582		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	0.0530		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			

LCS (B185515-BS1)

Prepared & Analyzed: 09/05/17

Acetone	0.197	0.10	mg/Kg wet	0.200		98.4	70-130			
Acrylonitrile	0.0233	0.0060	mg/Kg wet	0.0200		117	70-130			
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Bromobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130			
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
Bromoform	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		103	70-130			
2-Butanone (MEK)	0.225	0.040	mg/Kg wet	0.200		113	70-130			
n-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
sec-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Carbon Disulfide	0.229	0.0060	mg/Kg wet	0.200		114	70-130			
Carbon Tetrachloride	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Chlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.6	70-130			
Chloroform	0.0192	0.0040	mg/Kg wet	0.0200		95.9	70-130			
Chloromethane	0.0220	0.010	mg/Kg wet	0.0200		110	70-130			
2-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
4-Chlorotoluene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,2-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,3-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
trans-1,4-Dichloro-2-butene	0.0189	0.0040	mg/Kg wet	0.0200		94.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.0185	0.020	mg/Kg wet	0.0200		92.3	70-130			
1,1-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1-Dichloroethylene	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185515 - SW-846 5035

LCS (B185515-BS1)

Prepared & Analyzed: 09/05/17

cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130			
1,2-Dichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130			
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130			
trans-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Ethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
Hexachlorobutadiene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	70-130			
Isopropylbenzene (Cumene)	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		98.1	70-130			
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	70-130			
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-130			
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.3	70-130			
n-Propylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
Styrene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0158	0.010	mg/Kg wet	0.0200		79.2	70-130			V-16
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,2,3-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,2,4-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,1,1-Trichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
Trichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0255	0.010	mg/Kg wet	0.0200		128	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0233	0.010	mg/Kg wet	0.0200		117	70-130			
1,2,4-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3,5-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Vinyl Chloride	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
m+p Xylene	0.0368	0.0040	mg/Kg wet	0.0400		92.0	70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0555		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.1	70-130			

Batch B185582 - SW-846 5035

Blank (B185582-BLK1)

Prepared & Analyzed: 09/06/17

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185582 - SW-846 5035
Blank (B185582-BLK1)

Prepared & Analyzed: 09/06/17

n-Butylbenzene	ND	0.0020	mg/Kg wet
sec-Butylbenzene	ND	0.0020	mg/Kg wet
tert-Butylbenzene	ND	0.0020	mg/Kg wet
Carbon Disulfide	ND	0.0060	mg/Kg wet
Carbon Tetrachloride	ND	0.0020	mg/Kg wet
Chlorobenzene	ND	0.0020	mg/Kg wet
Chlorodibromomethane	ND	0.0010	mg/Kg wet
Chloroethane	ND	0.020	mg/Kg wet
Chloroform	ND	0.0040	mg/Kg wet
Chloromethane	ND	0.010	mg/Kg wet
2-Chlorotoluene	ND	0.0020	mg/Kg wet
4-Chlorotoluene	ND	0.0020	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet
Dibromomethane	ND	0.0020	mg/Kg wet
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet
1,1-Dichloroethane	ND	0.0020	mg/Kg wet
1,2-Dichloroethane	ND	0.0020	mg/Kg wet
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet
1,2-Dichloropropane	ND	0.0020	mg/Kg wet
1,3-Dichloropropane	ND	0.0010	mg/Kg wet
2,2-Dichloropropane	ND	0.0020	mg/Kg wet
1,1-Dichloropropene	ND	0.0020	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet
Ethylbenzene	ND	0.0020	mg/Kg wet
Hexachlorobutadiene	ND	0.0020	mg/Kg wet
2-Hexanone (MBK)	ND	0.020	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet
Methylene Chloride	ND	0.020	mg/Kg wet
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet
Naphthalene	ND	0.0040	mg/Kg wet
n-Propylbenzene	ND	0.0020	mg/Kg wet
Styrene	ND	0.0020	mg/Kg wet
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet
Tetrachloroethylene	ND	0.0020	mg/Kg wet
Tetrahydrofuran	ND	0.010	mg/Kg wet
Toluene	ND	0.0020	mg/Kg wet
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet
Trichloroethylene	ND	0.0020	mg/Kg wet

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185582 - SW-846 5035										
Blank (B185582-BLK1)					Prepared & Analyzed: 09/06/17					
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0474		mg/Kg wet	0.0500		94.9	70-130			
Surrogate: Toluene-d8	0.0480		mg/Kg wet	0.0500		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0457		mg/Kg wet	0.0500		91.3	70-130			
LCS (B185582-BS1)					Prepared & Analyzed: 09/06/17					
Acetone	0.136	0.10	mg/Kg wet	0.200		68.0	* 70-130			
Acrylonitrile	0.0193	0.0060	mg/Kg wet	0.0200		96.3	70-130			
Benzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromodichloromethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromomethane	0.0232	0.010	mg/Kg wet	0.0200		116	70-130			
2-Butanone (MEK)	0.171	0.040	mg/Kg wet	0.200		85.5	70-130			
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
sec-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Carbon Disulfide	0.203	0.0060	mg/Kg wet	0.200		102	70-130			
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Chlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0202	0.020	mg/Kg wet	0.0200		101	70-130			
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130			
Chloromethane	0.0197	0.010	mg/Kg wet	0.0200		98.7	70-130			
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
trans-1,4-Dichloro-2-butene	0.0188	0.0040	mg/Kg wet	0.0200		93.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0212	0.020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130			
1,1-Dichloroethylene	0.0199	0.0040	mg/Kg wet	0.0200		99.5	70-130			
cis-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
2,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
1,1-Dichloropropene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
cis-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185582 - SW-846 5035

LCS (B185582-BS1)

Prepared & Analyzed: 09/06/17

Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.191	0.020	mg/Kg wet	0.200		95.7	70-130			
Isopropylbenzene (Cumene)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0189	0.0040	mg/Kg wet	0.0200		94.4	70-130			
Methylene Chloride	0.0215	0.020	mg/Kg wet	0.0200		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		106	70-130			
Naphthalene	0.0165	0.0040	mg/Kg wet	0.0200		82.3	70-130			
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Styrene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,1,2-Tetrachloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Tetrachloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0201	0.010	mg/Kg wet	0.0200		101	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,2,4-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,1,1-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
1,2,3-Trichloropropane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		106	70-130			
1,2,4-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,3,5-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		94.1	70-130			
m+p Xylene	0.0427	0.0040	mg/Kg wet	0.0400		107	70-130			
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0457		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	0.0471		mg/Kg wet	0.0500		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0486		mg/Kg wet	0.0500		97.3	70-130			

Batch B185788 - SW-846 5030B

Blank (B185788-BLK1)

Prepared & Analyzed: 09/08/17

Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	5.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185788 - SW-846 5030B										
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17						
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185788 - SW-846 5030B										
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17						
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	29.6		µg/L	25.0		118	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			
LCS (B185788-BS1)				Prepared & Analyzed: 09/08/17						
Acetone	86.8	10	µg/L	100		86.8	70-130			
Acrylonitrile	10.2	2.0	µg/L	10.0		102	70-130			
Benzene	11.0	0.50	µg/L	10.0		110	70-130			
Bromobenzene	10.3	0.50	µg/L	10.0		103	70-130			
Bromodichloromethane	11.6	0.50	µg/L	10.0		116	70-130			
Bromoform	9.84	0.50	µg/L	10.0		98.4	70-130			
Bromomethane	11.7	5.0	µg/L	10.0		117	70-130			
2-Butanone (MEK)	95.2	5.0	µg/L	100		95.2	70-130			
n-Butylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Carbon Disulfide	121	5.0	µg/L	100		121	70-130			
Carbon Tetrachloride	12.5	0.50	µg/L	10.0		125	70-130			
Chlorobenzene	10.2	0.50	µg/L	10.0		102	70-130			
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130			
Chloroethane	9.80	0.50	µg/L	10.0		98.0	70-130			
Chloroform	11.6	0.50	µg/L	10.0		116	70-130			
Chloromethane	7.70	0.60	µg/L	10.0		77.0	70-130			
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
4-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.9	1.0	µg/L	10.0		119	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130			
Dibromomethane	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	10.1	0.50	µg/L	10.0		101	70-130			
1,3-Dichlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,4-Dichlorobenzene	10.0	0.50	µg/L	10.0		100	70-130			
trans-1,4-Dichloro-2-butene	10.0	2.0	µg/L	10.0		100	70-130			
Dichlorodifluoromethane (Freon 12)	11.9	0.50	µg/L	10.0		119	70-130			
1,1-Dichloroethane	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dichloroethane	11.9	0.50	µg/L	10.0		119	70-130			
1,1-Dichloroethylene	10.8	0.50	µg/L	10.0		108	70-130			
cis-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110	70-130			
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
2,2-Dichloropropane	13.9	0.50	µg/L	10.0		139 *	70-130			L-01, V-20
1,1-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130			
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130			
trans-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117	70-130			
Ethylbenzene	10.6	0.50	µg/L	10.0		106	70-130			
Hexachlorobutadiene	12.5	0.60	µg/L	10.0		125	70-130			
2-Hexanone (MBK)	99.6	5.0	µg/L	100		99.6	70-130			
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	11.3	0.50	µg/L	10.0		113	70-130			
Methyl tert-Butyl Ether (MTBE)	11.5	0.50	µg/L	10.0		115	70-130			
Methylene Chloride	9.44	5.0	µg/L	10.0		94.4	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185788 - SW-846 5030B										
LCS (B185788-BS1)					Prepared & Analyzed: 09/08/17					
4-Methyl-2-pentanone (MIBK)	98.9	5.0	µg/L	100		98.9	70-130			
Naphthalene	9.28	2.0	µg/L	10.0		92.8	70-130			
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	8.44	10	µg/L	10.0		84.4	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	10.6	2.0	µg/L	10.0		106	70-130			
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,1,1-Trichloroethane	12.4	0.50	µg/L	10.0		124	70-130			
1,1,2-Trichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Trichloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
Trichlorofluoromethane (Freon 11)	12.2	2.0	µg/L	10.0		122	70-130			
1,2,3-Trichloropropane	11.6	0.50	µg/L	10.0		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	0.50	µg/L	10.0		112	70-130			
1,2,4-Trimethylbenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,3,5-Trimethylbenzene	10.5	0.50	µg/L	10.0		105	70-130			
Vinyl Chloride	9.03	1.0	µg/L	10.0		90.3	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	28.8		µg/L	25.0		115	70-130			
Surrogate: Toluene-d8	26.1		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
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	4.34		mg/Kg wet	6.67		65.2	30-130			
Surrogate: Phenol-d6	4.66		mg/Kg wet	6.67		69.9	30-130			
Surrogate: Nitrobenzene-d5	2.27		mg/Kg wet	3.33		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.41		mg/Kg wet	3.33		72.4	30-130			
Surrogate: 2,4,6-Tribromophenol	7.14		mg/Kg wet	6.67		107	30-130			
Surrogate: p-Terphenyl-d14	3.28		mg/Kg wet	3.33		98.5	30-130			
LCS (B185658-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Aniline	0.727	0.34	mg/Kg wet	1.67		43.6	40-140			†
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.0	40-140			
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.8	40-140			
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.9	40-140			
Bis(2-Ethylhexyl)phthalate	1.18	0.34	mg/Kg wet	1.67		71.0	40-140			
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.1	40-140			
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		74.0	40-140			
Carbazole	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
4-Chloroaniline	0.586	0.66	mg/Kg wet	1.67		35.2	* 40-140			L-04 †
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		75.2	30-130			
2-Chloronaphthalene	1.13	0.34	mg/Kg wet	1.67		68.0	40-140			
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.3	30-130			
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		68.9	40-140			
3,3-Dichlorobenzidine	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			†
2,4-Dichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8	30-130			
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.7	40-140			
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.3	30-130			
Dimethylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
4,6-Dinitro-2-methylphenol	0.841	0.34	mg/Kg wet	1.67		50.5	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
LCS (B185658-BS1)										
Prepared: 09/06/17 Analyzed: 09/07/17										
2,4-Dinitrophenol	0.627	0.66	mg/Kg wet	1.67		37.6	30-130			
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
2,6-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.3	40-140			
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Hexachlorobenzene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.5	40-140			
Hexachlorocyclopentadiene	0.821	0.34	mg/Kg wet	1.67		49.3	30-140			V-05
Hexachloroethane	1.06	0.34	mg/Kg wet	1.67		63.6	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
Isophorone	1.28	0.34	mg/Kg wet	1.67		76.8	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3	30-130			
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
2-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			
3-Nitroaniline	1.02	0.34	mg/Kg wet	1.67		61.1	40-140			†
4-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140			
2-Nitrophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130			
4-Nitrophenol	1.66	0.66	mg/Kg wet	1.67		99.4	10-130			
N-Nitrosodiphenylamine	1.49	0.34	mg/Kg wet	1.67		89.4	40-140			
N-Nitrosodi-n-propylamine	1.21	0.34	mg/Kg wet	1.67		72.7	40-140			
Pentachloronitrobenzene	1.43	0.34	mg/Kg wet	1.67		85.7	40-140			V-16
Pentachlorophenol	1.00	0.34	mg/Kg wet	1.67		60.3	30-130			
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Phenol	1.21	0.34	mg/Kg wet	1.67		72.6	20-130			
Pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Pyridine	0.665	0.34	mg/Kg wet	1.67		39.9	10-140			†
1,2,4,5-Tetrachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.9	40-140			
1,2,4-Trichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.6	40-140			
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.1	30-130			
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Surrogate: 2-Fluorophenol	5.00		mg/Kg wet	6.67		75.1	30-130			
Surrogate: Phenol-d6	5.23		mg/Kg wet	6.67		78.4	30-130			
Surrogate: Nitrobenzene-d5	2.56		mg/Kg wet	3.33		76.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.33		78.4	30-130			
Surrogate: 2,4,6-Tribromophenol	7.30		mg/Kg wet	6.67		110	30-130			
Surrogate: p-Terphenyl-d14	2.92		mg/Kg wet	3.33		87.5	30-130			
LCS Dup (B185658-BS1)										
Prepared: 09/06/17 Analyzed: 09/07/17										
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	1.16	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.190	30	
Aniline	0.714	0.34	mg/Kg wet	1.67		42.8	40-140	1.90	50	† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	3.36	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	2.08	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	1.76	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	0.993	30	
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	0.0335	30	
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	0.352	30	
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	0.293	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
LCS Dup (B185658-BSD1)					Prepared: 09/06/17 Analyzed: 09/07/17					
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1	40-140	5.03	30	
Bis(2-chloroisopropyl)ether	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	2.29	30	
Bis(2-Ethylhexyl)phthalate	1.19	0.34	mg/Kg wet	1.67		71.2	40-140	0.309	30	
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		78.3	40-140	2.35	30	
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.0	40-140	1.31	30	
Carbazole	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	3.41	30	
4-Chloroaniline	0.576	0.66	mg/Kg wet	1.67		34.5	* 40-140	1.84	30	L-04 †
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.5	30-130	0.935	30	
2-Chloronaphthalene	1.12	0.34	mg/Kg wet	1.67		67.3	40-140	1.00	30	
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4	30-130	0.117	30	
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.0	40-140	5.02	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	1.35	30	
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140	7.36	30	
Dibenzofuran	1.17	0.34	mg/Kg wet	1.67		70.2	40-140	0.483	30	
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	0.203	30	
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	6.38	30	† ‡
2,4-Dichlorophenol	1.25	0.34	mg/Kg wet	1.67		75.2	30-130	0.742	30	
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.4	40-140	0.456	30	
2,4-Dimethylphenol	1.19	0.34	mg/Kg wet	1.67		71.2	30-130	2.88	30	
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.5	40-140	2.71	50	
4,6-Dinitro-2-methylphenol	0.802	0.34	mg/Kg wet	1.67		48.1	30-130	4.71	50	
2,4-Dinitrophenol	0.583	0.66	mg/Kg wet	1.67		35.0	30-130	7.22	50	
2,4-Dinitrotoluene	1.28	0.34	mg/Kg wet	1.67		77.0	40-140	3.07	30	
2,6-Dinitrotoluene	1.31	0.34	mg/Kg wet	1.67		78.9	40-140	1.36	30	
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	0.275	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	1.64	30	
Fluorene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	2.29	30	
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	2.91	30	
Hexachlorobutadiene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	1.25	30	
Hexachlorocyclopentadiene	0.828	0.34	mg/Kg wet	1.67		49.7	30-140	0.809	50	V-05
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	1.99	50	
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.384	50	
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.1	40-140	0.390	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140	1.83	30	
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130	2.55	30	
3/4-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130	2.17	30	
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	1.35	30	
2-Nitroaniline	1.31	0.34	mg/Kg wet	1.67		78.5	40-140	2.59	30	
3-Nitroaniline	0.939	0.34	mg/Kg wet	1.67		56.4	40-140	8.01	30	†
4-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	4.50	30	
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	0.336	30	
2-Nitrophenol	1.17	0.34	mg/Kg wet	1.67		70.4	30-130	2.62	30	
4-Nitrophenol	1.60	0.66	mg/Kg wet	1.67		96.0	10-130	3.44	50	‡
N-Nitrosodiphenylamine	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	3.50	30	
N-Nitrosodi-n-propylamine	1.23	0.34	mg/Kg wet	1.67		74.0	40-140	1.85	30	
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	1.91	30	V-16
Pentachlorophenol	0.967	0.34	mg/Kg wet	1.67		58.0	30-130	3.86	50	
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	3.81	30	
Phenol	1.21	0.34	mg/Kg wet	1.67		72.5	20-130	0.0827	30	
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	2.66	30	
Pyridine	0.657	0.34	mg/Kg wet	1.67		39.4	10-140	1.16	50	†
1,2,4,5-Tetrachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	2.88	30	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185658 - SW-846 3546
LCS Dup (B185658-BSD1)

Prepared: 09/06/17 Analyzed: 09/07/17

1,2,4-Trichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140	0.823	30	
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.4	30-130	0.323	30	
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130	2.33	50	
Surrogate: 2-Fluorophenol	5.14		mg/Kg wet	6.67		77.1	30-130			
Surrogate: Phenol-d6	5.30		mg/Kg wet	6.67		79.5	30-130			
Surrogate: Nitrobenzene-d5	2.67		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.0	30-130			
Surrogate: 2,4,6-Tribromophenol	7.25		mg/Kg wet	6.67		109	30-130			
Surrogate: p-Terphenyl-d14	2.90		mg/Kg wet	3.33		87.1	30-130			

Batch B185689 - SW-846 3510C
Blank (B185689-BLK1)

Prepared: 09/07/17 Analyzed: 09/08/17

Aniline	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	2.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185689 - SW-846 3510C										
Blank (B185689-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	84.5		µg/L	200		42.3	15-110			
Surrogate: Phenol-d6	52.2		µg/L	200		26.1	15-110			
Surrogate: Nitrobenzene-d5	71.0		µg/L	100		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	70.4		µg/L	100		70.4	30-130			
Surrogate: 2,4,6-Tribromophenol	161		µg/L	200		80.7	15-110			
Surrogate: p-Terphenyl-d14	87.1		µg/L	100		87.1	30-130			
LCS (B185689-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aniline	57.9	5.0	µg/L	100		57.9	40-140			†
Bis(2-chloroethoxy)methane	69.3	10	µg/L	100		69.3	40-140			
Bis(2-chloroethyl)ether	67.5	10	µg/L	100		67.5	40-140			
Bis(2-chloroisopropyl)ether	60.8	10	µg/L	100		60.8	40-140			
Bis(2-Ethylhexyl)phthalate	86.7	10	µg/L	100		86.7	40-140			
4-Bromophenylphenylether	74.9	10	µg/L	100		74.9	40-140			
Butylbenzylphthalate	80.6	10	µg/L	100		80.6	40-140			
Carbazole	72.6	10	µg/L	100		72.6	40-140			
4-Chloroaniline	71.6	10	µg/L	100		71.6	40-140			†
4-Chloro-3-methylphenol	74.0	10	µg/L	100		74.0	30-130			
2-Chloronaphthalene	58.8	10	µg/L	100		58.8	40-140			
2-Chlorophenol	61.9	10	µg/L	100		61.9	30-130			
4-Chlorophenylphenylether	71.4	10	µg/L	100		71.4	40-140			
Dibenzofuran	66.8	5.0	µg/L	100		66.8	40-140			
Di-n-butylphthalate	83.9	10	µg/L	100		83.9	40-140			
3,3-Dichlorobenzidine	118	10	µg/L	100		118	40-140			†
2,4-Dichlorophenol	70.3	10	µg/L	100		70.3	30-130			
Diethylphthalate	75.5	10	µg/L	100		75.5	40-140			
2,4-Dimethylphenol	76.5	10	µg/L	100		76.5	30-130			
Dimethylphthalate	71.1	10	µg/L	100		71.1	40-140			
4,6-Dinitro-2-methylphenol	66.0	10	µg/L	100		66.0	30-130			
2,4-Dinitrophenol	52.7	10	µg/L	100		52.7	30-130			
2,4-Dinitrotoluene	66.5	10	µg/L	100		66.5	40-140			
2,6-Dinitrotoluene	69.4	10	µg/L	100		69.4	40-140			
Di-n-octylphthalate	79.3	10	µg/L	100		79.3	40-140			
Hexachlorobenzene	71.4	10	µg/L	100		71.4	40-140			
Hexachlorobutadiene	80.0	10	µg/L	100		80.0	40-140			
Hexachlorocyclopentadiene	42.9	10	µg/L	100		42.9	30-140			V-05
Hexachloroethane	67.8	10	µg/L	100		67.8	40-140			
Isophorone	71.9	10	µg/L	100		71.9	40-140			
2-Methylphenol	51.3	10	µg/L	100		51.3	30-130			
3/4-Methylphenol	52.7	10	µg/L	100		52.7	30-130			
2-Nitroaniline	72.9	10	µg/L	100		72.9	40-140			
3-Nitroaniline	64.6	10	µg/L	100		64.6	40-140			†
4-Nitroaniline	70.0	10	µg/L	100		70.0	40-140			
Nitrobenzene	68.8	10	µg/L	100		68.8	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185689 - SW-846 3510C										
LCS (B185689-BS1)										
Prepared: 09/07/17 Analyzed: 09/08/17										
2-Nitrophenol	69.3	10	µg/L	100		69.3	30-130			
4-Nitrophenol	37.7	10	µg/L	100		37.7	10-130			
N-Nitrosodiphenylamine	92.0	10	µg/L	100		92.0	40-140			
N-Nitrosodi-n-propylamine	66.6	10	µg/L	100		66.6	40-140			
Pentachloronitrobenzene	80.9	10	µg/L	100		80.9	40-140			V-16
Pentachlorophenol	54.8	10	µg/L	100		54.8	30-130			
Phenol	27.5	10	µg/L	100		27.5	20-130			
Pyridine	25.4	5.0	µg/L	100		25.4	10-140			†
1,2,4,5-Tetrachlorobenzene	72.1	10	µg/L	100		72.1	40-140			
1,2,4-Trichlorobenzene	67.1	5.0	µg/L	100		67.1	40-140			
2,4,5-Trichlorophenol	65.6	10	µg/L	100		65.6	30-130			
2,4,6-Trichlorophenol	70.0	10	µg/L	100		70.0	30-130			
Surrogate: 2-Fluorophenol	95.9		µg/L	200		48.0	15-110			
Surrogate: Phenol-d6	65.7		µg/L	200		32.8	15-110			
Surrogate: Nitrobenzene-d5	80.3		µg/L	100		80.3	30-130			
Surrogate: 2-Fluorobiphenyl	74.7		µg/L	100		74.7	30-130			
Surrogate: 2,4,6-Tribromophenol	163		µg/L	200		81.6	15-110			
Surrogate: p-Terphenyl-d14	80.2		µg/L	100		80.2	30-130			
LCS Dup (B185689-BSD1)										
Prepared: 09/07/17 Analyzed: 09/08/17										
Aniline	58.7	5.0	µg/L	100		58.7	40-140	1.42	50	† ‡
Bis(2-chloroethoxy)methane	68.3	10	µg/L	100		68.3	40-140	1.48	20	
Bis(2-chloroethyl)ether	67.5	10	µg/L	100		67.5	40-140	0.0296	20	
Bis(2-chloroisopropyl)ether	60.5	10	µg/L	100		60.5	40-140	0.429	20	
Bis(2-Ethylhexyl)phthalate	84.7	10	µg/L	100		84.7	40-140	2.30	20	
4-Bromophenylphenylether	73.2	10	µg/L	100		73.2	40-140	2.19	20	
Butylbenzylphthalate	78.8	10	µg/L	100		78.8	40-140	2.17	20	
Carbazole	70.4	10	µg/L	100		70.4	40-140	3.08	20	
4-Chloroaniline	73.1	10	µg/L	100		73.1	40-140	2.06	20	†
4-Chloro-3-methylphenol	72.8	10	µg/L	100		72.8	30-130	1.68	20	
2-Chloronaphthalene	59.2	10	µg/L	100		59.2	40-140	0.695	20	
2-Chlorophenol	59.5	10	µg/L	100		59.5	30-130	4.07	20	
4-Chlorophenylphenylether	69.3	10	µg/L	100		69.3	40-140	3.06	20	
Dibenzofuran	65.6	5.0	µg/L	100		65.6	40-140	1.81	20	
Di-n-butylphthalate	83.5	10	µg/L	100		83.5	40-140	0.394	20	
3,3-Dichlorobenzidine	114	10	µg/L	100		114	40-140	3.84	20	† ‡
2,4-Dichlorophenol	68.6	10	µg/L	100		68.6	30-130	2.39	20	
Diethylphthalate	76.1	10	µg/L	100		76.1	40-140	0.818	20	
2,4-Dimethylphenol	74.3	10	µg/L	100		74.3	30-130	2.82	20	
Dimethylphthalate	69.3	10	µg/L	100		69.3	40-140	2.55	50	
4,6-Dinitro-2-methylphenol	65.0	10	µg/L	100		65.0	30-130	1.50	50	
2,4-Dinitrophenol	51.3	10	µg/L	100		51.3	30-130	2.69	50	
2,4-Dinitrotoluene	65.2	10	µg/L	100		65.2	40-140	1.94	20	
2,6-Dinitrotoluene	68.0	10	µg/L	100		68.0	40-140	2.12	20	
Di-n-octylphthalate	78.0	10	µg/L	100		78.0	40-140	1.58	20	
Hexachlorobenzene	70.8	10	µg/L	100		70.8	40-140	0.774	20	
Hexachlorobutadiene	75.9	10	µg/L	100		75.9	40-140	5.28	20	
Hexachlorocyclopentadiene	39.5	10	µg/L	100		39.5	30-140	8.15	50	V-05
Hexachloroethane	65.4	10	µg/L	100		65.4	40-140	3.48	50	
Isophorone	71.4	10	µg/L	100		71.4	40-140	0.726	20	
2-Methylphenol	49.9	10	µg/L	100		49.9	30-130	2.63	20	
3/4-Methylphenol	50.9	10	µg/L	100		50.9	30-130	3.55	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185689 - SW-846 3510C

LCS Dup (B185689-BSD1)

Prepared: 09/07/17 Analyzed: 09/08/17

2-Nitroaniline	72.3	10	µg/L	100		72.3	40-140	0.771	20	
3-Nitroaniline	64.6	10	µg/L	100		64.6	40-140	0.0310	20	†
4-Nitroaniline	69.5	10	µg/L	100		69.5	40-140	0.702	20	
Nitrobenzene	68.1	10	µg/L	100		68.1	40-140	0.950	20	
2-Nitrophenol	62.5	10	µg/L	100		62.5	30-130	10.3	20	
4-Nitrophenol	35.6	10	µg/L	100		35.6	10-130	5.81	50	‡
N-Nitrosodiphenylamine	91.1	10	µg/L	100		91.1	40-140	0.929	20	
N-Nitrosodi-n-propylamine	65.6	10	µg/L	100		65.6	40-140	1.39	20	
Pentachloronitrobenzene	78.5	10	µg/L	100		78.5	40-140	3.01	20	V-16
Pentachlorophenol	50.6	10	µg/L	100		50.6	30-130	7.97	50	
Phenol	28.5	10	µg/L	100		28.5	20-130	3.46	20	
Pyridine	26.9	5.0	µg/L	100		26.9	10-140	5.85	50	†
1,2,4,5-Tetrachlorobenzene	69.0	10	µg/L	100		69.0	40-140	4.36	20	
1,2,4-Trichlorobenzene	65.3	5.0	µg/L	100		65.3	40-140	2.73	20	
2,4,5-Trichlorophenol	64.4	10	µg/L	100		64.4	30-130	1.86	20	
2,4,6-Trichlorophenol	67.4	10	µg/L	100		67.4	30-130	3.81	50	
Surrogate: 2-Fluorophenol	90.3		µg/L	200		45.1	15-110			
Surrogate: Phenol-d6	60.6		µg/L	200		30.3	15-110			
Surrogate: Nitrobenzene-d5	78.6		µg/L	100		78.6	30-130			
Surrogate: 2-Fluorobiphenyl	70.5		µg/L	100		70.5	30-130			
Surrogate: 2,4,6-Tribromophenol	156		µg/L	200		77.8	15-110			
Surrogate: p-Terphenyl-d14	77.5		µg/L	100		77.5	30-130			

Batch B185949 - SW-846 3510C

Blank (B185949-BLK1)

Prepared: 09/07/17 Analyzed: 09/11/17

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	80.4		µg/L	100		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	79.4		µg/L	100		79.4	30-130			
Surrogate: p-Terphenyl-d14	67.6		µg/L	100		67.6	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185949 - SW-846 3510C
LCS (B185949-BS1)

Prepared: 09/07/17 Analyzed: 09/11/17

Acenaphthene (SIM)	80.8	7.5	µg/L	100		80.8	40-140			
Acenaphthylene (SIM)	78.7	7.5	µg/L	100		78.7	40-140			
Anthracene (SIM)	84.8	5.0	µg/L	100		84.8	40-140			
Benzo(a)anthracene (SIM)	82.6	1.2	µg/L	100		82.6	40-140			
Benzo(a)pyrene (SIM)	90.1	2.5	µg/L	100		90.1	40-140			
Benzo(b)fluoranthene (SIM)	90.1	1.2	µg/L	100		90.1	40-140			
Benzo(g,h,i)perylene (SIM)	83.4	12	µg/L	100		83.4	40-140			
Benzo(k)fluoranthene (SIM)	86.8	5.0	µg/L	100		86.8	40-140			
Chrysene (SIM)	81.9	5.0	µg/L	100		81.9	40-140			
Dibenz(a,h)anthracene (SIM)	85.3	5.0	µg/L	100		85.3	40-140			
Fluoranthene (SIM)	85.0	12	µg/L	100		85.0	40-140			
Fluorene (SIM)	83.5	25	µg/L	100		83.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	84.8	5.0	µg/L	100		84.8	40-140			
2-Methylnaphthalene (SIM)	77.6	25	µg/L	100		77.6	40-140			
Naphthalene (SIM)	74.3	25	µg/L	100		74.3	40-140			
Phenanthrene (SIM)	81.7	1.2	µg/L	100		81.7	40-140			
Pyrene (SIM)	80.8	25	µg/L	100		80.8	40-140			
Surrogate: Nitrobenzene-d5	87.8		µg/L	100		87.8	30-130			
Surrogate: 2-Fluorobiphenyl	91.0		µg/L	100		91.0	30-130			
Surrogate: p-Terphenyl-d14	77.4		µg/L	100		77.4	30-130			

LCS Dup (B185949-BS1)

Prepared: 09/07/17 Analyzed: 09/11/17

Acenaphthene (SIM)	85.0	7.5	µg/L	100		85.0	40-140	4.95	20	
Acenaphthylene (SIM)	82.4	7.5	µg/L	100		82.4	40-140	4.56	20	
Anthracene (SIM)	88.3	5.0	µg/L	100		88.3	40-140	4.02	20	
Benzo(a)anthracene (SIM)	86.1	1.2	µg/L	100		86.1	40-140	4.12	20	
Benzo(a)pyrene (SIM)	94.3	2.5	µg/L	100		94.3	40-140	4.50	20	
Benzo(b)fluoranthene (SIM)	93.6	1.2	µg/L	100		93.6	40-140	3.78	20	
Benzo(g,h,i)perylene (SIM)	88.5	12	µg/L	100		88.5	40-140	5.87	20	
Benzo(k)fluoranthene (SIM)	90.4	5.0	µg/L	100		90.4	40-140	4.01	20	
Chrysene (SIM)	86.0	5.0	µg/L	100		86.0	40-140	4.80	20	
Dibenz(a,h)anthracene (SIM)	90.9	5.0	µg/L	100		90.9	40-140	6.38	20	
Fluoranthene (SIM)	89.0	12	µg/L	100		89.0	40-140	4.62	20	
Fluorene (SIM)	87.9	25	µg/L	100		87.9	40-140	5.19	20	
Indeno(1,2,3-cd)pyrene (SIM)	90.3	5.0	µg/L	100		90.3	40-140	6.20	20	‡
2-Methylnaphthalene (SIM)	81.5	25	µg/L	100		81.5	40-140	4.93	20	
Naphthalene (SIM)	77.7	25	µg/L	100		77.7	40-140	4.54	20	
Phenanthrene (SIM)	84.3	1.2	µg/L	100		84.3	40-140	3.10	20	
Pyrene (SIM)	84.4	25	µg/L	100		84.4	40-140	4.30	20	
Surrogate: Nitrobenzene-d5	85.6		µg/L	100		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	89.8		µg/L	100		89.8	30-130			
Surrogate: p-Terphenyl-d14	71.8		µg/L	100		71.8	30-130			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185770 - SW-846 3510C
Blank (B185770-BLK1)

Prepared: 09/07/17 Analyzed: 09/08/17

Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	2.07		µg/L	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.21		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	1.91		µg/L	2.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.86		µg/L	2.00		93.0	30-150			

LCS (B185770-BS1)

Prepared: 09/07/17 Analyzed: 09/08/17

Aroclor-1016	0.49	0.20	µg/L	0.500		97.3	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		98.3	40-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		95.4	40-140			
Surrogate: Decachlorobiphenyl	1.95		µg/L	2.00		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.09		µg/L	2.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.80		µg/L	2.00		89.9	30-150			

LCS Dup (B185770-BSD1)

Prepared: 09/07/17 Analyzed: 09/08/17

Aroclor-1016	0.52	0.20	µg/L	0.500		103	40-140	6.09	20	
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		111	40-140	2.48	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		99.5	40-140	1.25	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.8	40-140	1.49	20	
Surrogate: Decachlorobiphenyl	2.03		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.20		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	1.91		µg/L	2.00		95.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.89		µg/L	2.00		94.7	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185858 - SW-846 3540C
Blank (B185858-BLK1)

Prepared: 09/08/17 Analyzed: 09/13/17

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.193		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg wet	0.200		95.8	30-150			

LCS (B185858-BS1)

Prepared: 09/08/17 Analyzed: 09/13/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.7	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.8	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.0	30-150			

LCS Dup (B185858-BSD1)

Prepared: 09/08/17 Analyzed: 09/13/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.2	40-140	2.73	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	2.79	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.0	40-140	1.51	30	
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185858 - SW-846 3540C
Matrix Spike (B185858-MS1)
Source: 17H1675-01

Prepared: 09/08/17 Analyzed: 09/13/17

Aroclor-1016	0.24	0.087	mg/Kg dry	0.217	ND	109	40-140			
Aroclor-1016 [2C]	0.23	0.087	mg/Kg dry	0.217	ND	107	40-140			
Aroclor-1260	0.41	0.087	mg/Kg dry	0.217	0.16	116	40-140			
Aroclor-1260 [2C]	0.39	0.087	mg/Kg dry	0.217	0.17	103	40-140			
Surrogate: Decachlorobiphenyl	0.197		mg/Kg dry	0.217		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.218		mg/Kg dry	0.217		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg dry	0.217		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.212		mg/Kg dry	0.217		98.0	30-150			

Matrix Spike Dup (B185858-MSD1)
Source: 17H1675-01

Prepared: 09/08/17 Analyzed: 09/13/17

Aroclor-1016	0.24	0.088	mg/Kg dry	0.219	ND	109	40-140	0.804	50	
Aroclor-1016 [2C]	0.23	0.088	mg/Kg dry	0.219	ND	106	40-140	0.00359	50	
Aroclor-1260	0.38	0.088	mg/Kg dry	0.219	0.16	101	40-140	7.97	50	
Aroclor-1260 [2C]	0.37	0.088	mg/Kg dry	0.219	0.17	90.6	40-140	6.48	50	
Surrogate: Decachlorobiphenyl	0.198		mg/Kg dry	0.219		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg dry	0.219		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg dry	0.219		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg dry	0.219		94.6	30-150			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185690 - SW-846 3510C										
Blank (B185690-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0970		mg/L	0.100		97.0	50-150			
LCS (B185690-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	0.772	0.075	mg/L	1.00		77.2	60-120			
Surrogate: o-Terphenyl	0.0991		mg/L	0.100		99.1	50-150			
LCS Dup (B185690-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	0.750	0.075	mg/L	1.00		75.0	60-120	2.84	30	
Surrogate: o-Terphenyl	0.0956		mg/L	0.100		95.6	50-150			
Batch B185980 - SW-846 3546										
Blank (B185980-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.17		mg/Kg wet	3.33		95.1	50-150			
LCS (B185980-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	3.35		mg/Kg wet	3.33		100	50-150			
LCS Dup (B185980-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	23.7	10	mg/Kg wet	33.3		71.1	60-120	5.91	30	
Surrogate: o-Terphenyl	3.16		mg/Kg wet	3.33		94.7	50-150			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185607 - SW-846 7470A Prep										
Blank (B185607-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	ND	0.00010	mg/L							
LCS (B185607-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	0.00173	0.00010	mg/L	0.00200		86.4	80-120			
LCS Dup (B185607-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	0.00161	0.00010	mg/L	0.00200		80.6	80-120	6.90	20	
Batch B185635 - SW-846 7471										
Blank (B185635-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B185635-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	10.2	1.9	mg/Kg wet	9.36		109	73.7-126.3			
LCS Dup (B185635-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	0.571	30	
Batch B185638 - SW-846 3050B										
Blank (B185638-BLK1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B185638-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	59.9	5.1	mg/Kg wet	146		41.0	0-210.3			
Arsenic	143	5.1	mg/Kg wet	157		90.9	77.8-122.1			
Barium	316	5.1	mg/Kg wet	339		93.3	82-117.4			
Beryllium	55.8	0.51	mg/Kg wet	58.3		95.8	82.3-117.7			
Cadmium	188	0.51	mg/Kg wet	216		86.9	81.9-118.2			
Chromium	84.5	1.0	mg/Kg wet	88.9		95.1	78.7-120.6			
Copper	183	1.0	mg/Kg wet	184		99.6	80.4-119.6			
Lead	91.0	1.5	mg/Kg wet	94.3		96.4	82.4-117.8			
Nickel	137	1.0	mg/Kg wet	154		88.8	82.2-117.8			
Selenium	186	10	mg/Kg wet	207		89.7	77.1-122.3			
Silver	41.4	1.0	mg/Kg wet	43.8		94.6	74.3-125.4			
Thallium	146	5.1	mg/Kg wet	167		87.6	78.2-121.6			
Vanadium	86.1	2.0	mg/Kg wet	100		86.1	64.8-135.2			
Zinc	188	2.0	mg/Kg wet	209		89.9	79.7-120.8			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185638 - SW-846 3050B
LCS Dup (B185638-BSD1)

Prepared: 09/06/17 Analyzed: 09/08/17

Antimony	54.4	5.0	mg/Kg wet	146		37.2	0-210.3	9.75	30	
Arsenic	142	5.0	mg/Kg wet	157		90.5	77.8-122.1	0.506	30	
Barium	311	5.0	mg/Kg wet	339		91.7	82-117.4	1.65	30	
Beryllium	54.6	0.50	mg/Kg wet	58.3		93.6	82.3-117.7	2.24	30	
Cadmium	187	0.50	mg/Kg wet	216		86.4	81.9-118.2	0.524	30	
Chromium	82.9	1.0	mg/Kg wet	88.9		93.2	78.7-120.6	1.95	30	
Copper	178	1.0	mg/Kg wet	184		96.6	80.4-119.6	3.08	30	
Lead	90.7	1.5	mg/Kg wet	94.3		96.1	82.4-117.8	0.323	30	
Nickel	134	1.0	mg/Kg wet	154		87.1	82.2-117.8	1.92	30	
Selenium	188	10	mg/Kg wet	207		90.8	77.1-122.3	1.18	30	
Silver	40.8	1.0	mg/Kg wet	43.8		93.2	74.3-125.4	1.51	30	
Thallium	146	5.0	mg/Kg wet	167		87.7	78.2-121.6	0.122	30	
Vanadium	85.7	2.0	mg/Kg wet	100		85.7	64.8-135.2	0.423	30	
Zinc	185	2.0	mg/Kg wet	209		88.7	79.7-120.8	1.42	30	

MRL Check (B185638-MRL1)

Prepared: 09/06/17 Analyzed: 09/08/17

Lead	0.595	0.72	mg/Kg wet	0.719		82.8	80-120			
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Batch B185847 - SW-846 3005A
Blank (B185847-BLK1)

Prepared: 09/08/17 Analyzed: 09/11/17

Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							

LCS (B185847-BS1)

Prepared: 09/08/17 Analyzed: 09/11/17

Antimony	258	5.0	µg/L	250		103	80-120			
Arsenic	259	2.0	µg/L	250		104	80-120			
Barium	256	50	µg/L	250		102	80-120			
Beryllium	245	2.0	µg/L	250		97.8	80-120			
Cadmium	254	2.5	µg/L	250		102	80-120			
Chromium	254	5.0	µg/L	250		101	80-120			
Copper	257	25	µg/L	250		103	80-120			
Lead	245	5.0	µg/L	250		97.9	80-120			
Nickel	257	25	µg/L	250		103	80-120			
Selenium	253	25	µg/L	250		101	80-120			
Silver	268	2.5	µg/L	250		107	80-120			
Thallium	241	1.0	µg/L	250		96.3	80-120			
Vanadium	231	25	µg/L	250		92.5	80-120			
Zinc	260	50	µg/L	250		104	80-120			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185847 - SW-846 3005A
LCS Dup (B185847-BSD1)

Prepared: 09/08/17 Analyzed: 09/11/17

Antimony	264	5.0	µg/L	250		106	80-120	2.24	20	
Arsenic	255	2.0	µg/L	250		102	80-120	1.54	20	
Barium	262	50	µg/L	250		105	80-120	2.25	20	
Beryllium	251	2.0	µg/L	250		100	80-120	2.57	20	
Cadmium	259	2.5	µg/L	250		104	80-120	1.88	20	
Chromium	253	5.0	µg/L	250		101	80-120	0.406	20	
Copper	256	25	µg/L	250		102	80-120	0.363	20	
Lead	250	5.0	µg/L	250		100	80-120	2.32	20	
Nickel	256	25	µg/L	250		102	80-120	0.302	20	
Selenium	251	25	µg/L	250		101	80-120	0.781	20	
Silver	275	2.5	µg/L	250		110	80-120	2.68	20	
Thallium	251	1.0	µg/L	250		100	80-120	4.04	20	
Vanadium	232	25	µg/L	250		92.7	80-120	0.207	20	
Zinc	259	50	µg/L	250		103	80-120	0.591	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185578 - % Solids

Duplicate (B185578-DUP4)		Source: 17H1675-01		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	92.7		% Wt		91.4			1.41	20	
Duplicate (B185578-DUP5)		Source: 17H1675-02		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	92.4		% Wt		91.9			0.543	20	
Duplicate (B185578-DUP6)		Source: 17H1675-03		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	91.6		% Wt		89.7			2.10	20	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

WS-AOC13-SO-33

SW-846 8082A

Lab Sample ID: 17H1675-01 Date(s) Analyzed: 09/13/2017 09/13/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC13-SO-34***SW-846 8082A*

Lab Sample ID: 17H1675-02 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.24	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC13-SO-35***SW-846 8082A*

Lab Sample ID: 17H1675-03 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC13-SO-36***SW-846 8082A*

Lab Sample ID: 17H1675-04 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.60	
	2	0.000	-0.030	0.030	0.61	1.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC13-SO-37***SW-846 8082A*

Lab Sample ID: 17H1675-05 Date(s) Analyzed: 09/14/2017 09/14/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	6.2	
	2	0.000	-0.030	0.030	6.2	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC13-SO-38***SW-846 8082A*

Lab Sample ID: 17H1675-06 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.32	3.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC13-SO-39***SW-846 8082A*

Lab Sample ID: 17H1675-07 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	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-AOC7-SO-17-0**

Lab Sample ID: 17H1675-08 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.094	
	2	0.000	-0.030	0.030	0.096	2.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC7-SO-18-0***SW-846 8082A*

Lab Sample ID: 17H1675-09 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.86	
	2	0.000	-0.030	0.030	0.85	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC8-SO-3-0**

Lab Sample ID: 17H1675-12 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.31	0.0

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC9-SO-45-0**

Lab Sample ID: 17H1675-13 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.26	3.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
WS-AOC8-SE-25

Lab Sample ID: 17H1675-14 Date(s) Analyzed: 09/14/2017 09/14/2017
 Instrument ID (1): ECD10 Instrument ID (2): ECD10
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.4	
	2	0.000	-0.030	0.030	2.4	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC10-SE-15***SW-846 8082A*

Lab Sample ID: 17H1675-15 Date(s) Analyzed: 09/14/2017 09/14/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	440	
	2	0.000	-0.030	0.030	430	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185770-BS1 Date(s) Analyzed: 09/08/2017 09/08/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.54	9.7
Aroclor-1260	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.48	2.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185770-BSD1 Date(s) Analyzed: 09/08/2017 09/08/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.55	5.6
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.48	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185858-BS1 Date(s) Analyzed: 09/13/2017 09/13/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185858-BSD1 Date(s) Analyzed: 09/13/2017 09/13/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	6.1

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

Lab Sample ID: B185858-MS1 Date(s) Analyzed: 09/13/2017 09/13/2017
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.41	
	2	0.000	-0.030	0.030	0.39	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: B185858-MSD1 Date(s) Analyzed: 09/13/2017 09/13/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.37	2.7

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-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-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.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
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>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>	
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 6020A-B in Water</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,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,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 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
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
<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

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	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	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,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	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
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
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,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
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

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

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

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



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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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC13-SO-33	8/31/17	1000	X		S	U
2	WS-AOC13-SO-34		1010				
3	WS-AOC13-SO-35		1020				
4	WS-AOC13-SO-36		1030				
5	WS-AOC13-SO-37		1040				
6	WS-AOC13-SO-38		1050				
7	WS-AOC13-SO-39		1100				
8	WS-AOC13-SO-17-0		1110				
9	WS-AOC7-SO-18-0		1115				
10	WS-AOC7-SO-19-0		1120				

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: 8/31/17
Received by: (signature)	Date/Time: 8/31/17 1505
Relinquished by: (signature)	Date/Time: 9/1/17 900
Received by: (signature)	Date/Time: 9/1/17 9:50 4.3
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements	MA	CT	Other
		RES DEC	

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analysis Certification Form Required
☐ MA State DW Form Required

PWSID #

WGS 9/1/17
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 WCG Date 9/11/17 Time 9:50

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 - 3.6°C/4.3°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? T On COC? T

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

Vials	#	Containers:	#	#	#	#
Unp-	<u>3</u>	1 Liter Amb.	<u>6</u>	1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>2</u>	250 mL Amb.		250 mL Plastic	<u>1</u>	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	<u>4</u>	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: <u>WCG 9/11/17</u>
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.SEC\A0912075.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/13/17
Data File Name A0912075.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	644321	668772	-4
c - 10	1.63	652986	668772	-2
c - 12	2.35	670312	668772	0
c - 14	3.01	682330	668772	2
c - 16	3.61	695447	668772	4
c - 18	4.23	684583	668772	2
o-Terphenyl	4.51	758044	668772	
c - 20	4.83	689892	668772	3
c - 22	5.34	696936	668772	4
c - 24	5.77	646118	668772	-3
c - 26	6.16	678125	668772	1
c - 28	6.52	667022	668772	0
c - 30	6.85	664475	668772	-1
c - 32	7.16	650625	668772	-3
c - 34	7.45	653920	668772	-2
c - 36	7.77	654488	668772	-2

* One compound allowed %D <= 50%

Samples
17H1675-14
17I0196-01



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: 17H1675

Laboratory Sample ID(s):

17H1675-01 thru 17H1675-17

Sample Date(s):

08/31/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, 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: 09/14/17
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: 17I0542

Enclosed are results of analyses for samples received by the laboratory on September 13, 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

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

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

REPORT DATE: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710542

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-5-3R	1710542-01	Soil		SM 2540G SW-846 8270D	
WS-AOC-13-SO-6-1R	1710542-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-13-SO-9-3R	1710542-03	Soil		SM 2540G SW-846 8270D	
WS-AOC-13-SO-19-2R	1710542-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-13-SO-21-1R	1710542-05	Soil		SM 2540G SW-846 8270D	
WS-AOC-13-SO-22-2R	1710542-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-13-SO-23-1R	1710542-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-13-SO-23-2R	1710542-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-13-SO-23-3R	1710542-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-13-SO-25-4R	1710542-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-07-SO-2-3R	1710542-11	Soil		CTDEP ETPH SM 2540G	
WS-AOC-07-SO-3-3R	1710542-12	Soil		CTDEP ETPH SM 2540G	
WS-AOC-07-SO-4-3R	1710542-13	Soil		CTDEP ETPH SM 2540G	
WS-AOC-07-SO-7-2R	1710542-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-07-SO-7-3R	1710542-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-07-SO-8-1R	1710542-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-07-SO-9-3R	1710542-17	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC-07-SO-DUP62	1710542-18	Soil		CTDEP ETPH SM 2540G	

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.

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

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**

B186922-BSD1

MS-08

Matrix spike 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**

17I0542-11RE1[WS-AOC-07-SO-2-3R], B186922-MS1

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**

17I0542-11[WS-AOC-07-SO-2-3R], 17I0542-12[WS-AOC-07-SO-3-3R], 17I0542-13[WS-AOC-07-SO-4-3R], 17I0542-17[WS-AOC-07-SO-9-3R], 17I0542-18[WS-AOC-07-SO-DUP62]

SW-846 8082A**Qualifications:****P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:**Aroclor-1254**

17I0542-09[WS-AOC-13-SO-23-3R]

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**

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

Decachlorobiphenyl [2C]

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

Tetrachloro-m-xylene

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

Tetrachloro-m-xylene [2C]

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

SW-846 8270D**Qualifications:****B**

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

Analyte & Samples(s) Qualified:**Benzo(a)anthracene (SIM)**

17I0542-05[WS-AOC-13-SO-21-1R], B186838-BLK1, B186838-BS1, B186838-BSD1

Benzo(b)fluoranthene (SIM)

17I0542-05[WS-AOC-13-SO-21-1R], B186838-BLK1, B186838-BS1, B186838-BSD1

Naphthalene (SIM)

B186838-BLK1, B186838-BS1, B186838-BSD1

Phenanthrene (SIM)

17I0542-01[WS-AOC-13-SO-5-3R], 17I0542-03[WS-AOC-13-SO-9-3R], 17I0542-05[WS-AOC-13-SO-21-1R], 17I0542-17[WS-AOC-07-SO-9-3R], 17I0542-17RE1[WS-AOC-07-SO-9-3R], B186792-BLK1, B186792-BS1, B186792-BSD1, B186838-BLK1, B186838-BS1, B186838-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:**Phenanthrene (SIM)**

1710542-17[WS-AOC-07-SO-9-3R]

E

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

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

1710542-17[WS-AOC-07-SO-9-3R]

Acenaphthene (SIM)

1710542-17[WS-AOC-07-SO-9-3R], 1710542-17RE1[WS-AOC-07-SO-9-3R]

Anthracene

1710542-17[WS-AOC-07-SO-9-3R]

Anthracene (SIM)

1710542-17[WS-AOC-07-SO-9-3R]

Benzo(a)anthracene

1710542-17[WS-AOC-07-SO-9-3R]

Benzo(b)fluoranthene

1710542-03[WS-AOC-13-SO-9-3R]

Chrysene

1710542-17[WS-AOC-07-SO-9-3R]

Fluoranthene

1710542-03[WS-AOC-13-SO-9-3R], 1710542-17[WS-AOC-07-SO-9-3R]

Fluoranthene (SIM)

1710542-17[WS-AOC-07-SO-9-3R]

Fluorene (SIM)

1710542-17[WS-AOC-07-SO-9-3R]

Naphthalene (SIM)

1710542-17[WS-AOC-07-SO-9-3R]

Phenanthrene

1710542-17[WS-AOC-07-SO-9-3R]

Phenanthrene (SIM)

1710542-17[WS-AOC-07-SO-9-3R]

Pyrene

1710542-03[WS-AOC-13-SO-9-3R], 1710542-17[WS-AOC-07-SO-9-3R]

Pyrene (SIM)

1710542-17[WS-AOC-07-SO-9-3R]

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710542-01RE1[WS-AOC-13-SO-5-3R]

S-01

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

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

1710542-17RE2[WS-AOC-07-SO-9-3R]

Nitrobenzene-d5

1710542-17RE2[WS-AOC-07-SO-9-3R]

p-Terphenyl-d14

1710542-17RE2[WS-AOC-07-SO-9-3R]

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 "Tod Kopycinski". The signature is written in a cursive, flowing style.

Tod E. Kopycinski
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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-5-3R

Sampled: 9/13/2017 12:17

Sample ID: 1710542-01

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	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Acenaphthylene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Anthracene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(a)anthracene	2.2	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(a)pyrene	2.5	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(b)fluoranthene	3.2	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(g,h,i)perylene	2.4	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(k)fluoranthene	1.1	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Chrysene	2.2	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Dibenz(a,h)anthracene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Fluoranthene	3.8	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Fluorene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Indeno(1,2,3-cd)pyrene	1.8	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
2-Methylnaphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Naphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Phenanthrene	1.5	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Pyrene	3.5	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	66.2	30-130							
2-Fluorobiphenyl	56.3	30-130							
p-Terphenyl-d14	58.2	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-5-3R

Sampled: 9/13/2017 12:17

Sample ID: 1710542-01

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	84.8		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-5-3R

Sampled: 9/13/2017 12:17

Sample ID: 1710542-01

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	9/21/17	9/22/17 17:02	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(a)anthracene (SIM)	0.071	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(b)fluoranthene (SIM)	0.075	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Phenanthrene (SIM)	0.21	0.050	µg/L	1	B	SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	71.8	30-130							
2-Fluorobiphenyl	71.1	30-130							
p-Terphenyl-d14	41.7	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-6-1R

Sampled: 9/13/2017 12:26

Sample ID: 1710542-02

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	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1260 [2]	0.16	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.5	30-150							
Decachlorobiphenyl [2]	77.5	30-150							
Tetrachloro-m-xylene [1]	80.4	30-150							
Tetrachloro-m-xylene [2]	77.4	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-6-1R

Sampled: 9/13/2017 12:26

Sample ID: 1710542-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-6-1R

Sampled: 9/13/2017 12:26

Sample ID: 1710542-02

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	9/21/17	9/23/17 12:33	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.4	30-150							
Decachlorobiphenyl [2]	78.5	30-150							
Tetrachloro-m-xylene [1]	93.2	30-150							
Tetrachloro-m-xylene [2]	92.7	30-150							

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-9-3R

Sampled: 9/13/2017 12:36

Sample ID: 1710542-03

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	9/20/17	9/21/17 13:59	BGL
Acenaphthene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Acenaphthylene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Anthracene	0.52	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Anthracene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(a)anthracene	4.5	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(a)anthracene	3.2	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(a)pyrene	4.2	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(a)pyrene	3.3	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(b)fluoranthene	5.1	0.21	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(b)fluoranthene	3.9	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(g,h,i)perylene	1.8	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(g,h,i)perylene	1.5	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(k)fluoranthene	2.0	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(k)fluoranthene	1.6	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Chrysene	4.2	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Chrysene	2.9	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Dibenz(a,h)anthracene	0.57	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Fluoranthene	9.2	0.21	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Fluoranthene	6.0	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Fluorene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Indeno(1,2,3-cd)pyrene	2.2	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Indeno(1,2,3-cd)pyrene	1.8	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Naphthalene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Naphthalene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Phenanthrene	2.5	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Phenanthrene	1.9	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Pyrene	8.8	0.21	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Pyrene	5.7	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	50.2	30-130	9/21/17 13:59
Nitrobenzene-d5	40.4	30-130	9/21/17 16:06
2-Fluorobiphenyl	53.6	30-130	9/21/17 13:59
2-Fluorobiphenyl	41.4	30-130	9/21/17 16:06
p-Terphenyl-d14	56.4	30-130	9/21/17 13:59
p-Terphenyl-d14	39.3	30-130	9/21/17 16:06

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-9-3R

Sampled: 9/13/2017 12:36

Sample ID: 1710542-03

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	78.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-9-3R

Sampled: 9/13/2017 12:36

Sample ID: 1710542-03

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	9/21/17	9/22/17 17:31	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(a)anthracene (SIM)	0.18	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(a)pyrene (SIM)	0.18	0.10	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(b)fluoranthene (SIM)	0.24	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Chrysene (SIM)	0.20	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Phenanthrene (SIM)	0.26	0.050	µg/L	1	B	SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	59.3	30-130							
2-Fluorobiphenyl	62.9	30-130							
p-Terphenyl-d14	51.9	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-19-2R

Sampled: 9/13/2017 12:46

Sample ID: 1710542-04

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	9/20/17	9/24/17 12:57	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1260 [2]	0.61	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.4	30-150							
Decachlorobiphenyl [2]	91.6	30-150							
Tetrachloro-m-xylene [1]	90.8	30-150							
Tetrachloro-m-xylene [2]	87.7	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-19-2R

Sampled: 9/13/2017 12:46

Sample ID: 1710542-04

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	92.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-19-2R

Sampled: 9/13/2017 12:46

Sample ID: 1710542-04

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	9/21/17	9/23/17 12:59	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1260 [1]	0.34	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.2	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	108	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-21-1R

Sampled: 9/13/2017 12:53

Sample ID: 1710542-05

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	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(a)anthracene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(a)pyrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(b)fluoranthene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(g,h,i)perylene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(k)fluoranthene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Chrysene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Fluoranthene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Indeno(1,2,3-cd)pyrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Pyrene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	57.4	30-130						9/21/17 14:24	
2-Fluorobiphenyl	69.9	30-130						9/21/17 14:24	
p-Terphenyl-d14	80.1	30-130						9/21/17 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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-21-1R

Sampled: 9/13/2017 12:53

Sample ID: 1710542-05

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	89.5		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-21-1R

Sampled: 9/13/2017 12:53

Sample ID: 1710542-05

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	9/22/17	9/25/17 21:00	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(a)anthracene (SIM)	0.082	0.050	µg/L	1	B	SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(a)pyrene (SIM)	0.14	0.10	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(b)fluoranthene (SIM)	0.22	0.050	µg/L	1	B	SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.21	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Phenanthrene (SIM)	0.10	0.050	µg/L	1	B	SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	95.2	30-130							
2-Fluorobiphenyl	92.9	30-130							
p-Terphenyl-d14	80.9	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-22-2R

Sampled: 9/13/2017 13:03

Sample ID: 1710542-06

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	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1254 [1]	0.79	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1260 [1]	2.0	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1268 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150						9/25/17 13:24	
Decachlorobiphenyl [2]	91.0	30-150						9/25/17 13:24	
Tetrachloro-m-xylene [1]	99.3	30-150						9/25/17 13:24	
Tetrachloro-m-xylene [2]	91.5	30-150						9/25/17 13:24	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-22-2R

Sampled: 9/13/2017 13:03

Sample ID: 1710542-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-22-2R

Sampled: 9/13/2017 13:03

Sample ID: 1710542-06

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	9/21/17	9/23/17 13:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1260 [2]	0.98	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	42.1	30-150							
Decachlorobiphenyl [2]	49.1	30-150							
Tetrachloro-m-xylene [1]	93.6	30-150							
Tetrachloro-m-xylene [2]	93.4	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-1R

Sampled: 9/13/2017 13:10

Sample ID: 1710542-07

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	9/20/17	9/24/17 13:31	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1260 [2]	0.46	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.1	30-150							
Decachlorobiphenyl [2]	92.9	30-150							
Tetrachloro-m-xylene [1]	83.8	30-150							
Tetrachloro-m-xylene [2]	81.1	30-150							

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-1R

Sampled: 9/13/2017 13:10

Sample ID: 1710542-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-1R

Sampled: 9/13/2017 13:10

Sample ID: 1710542-07

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	9/21/17	9/23/17 13:34	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.8	30-150							
Decachlorobiphenyl [2]	75.5	30-150							
Tetrachloro-m-xylene [1]	94.4	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-2R

Sampled: 9/13/2017 13:11

Sample ID: 1710542-08

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	9/20/17	9/24/17 13:48	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1260 [2]	0.84	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	60.0	30-150							
Decachlorobiphenyl [2]	83.4	30-150							
Tetrachloro-m-xylene [1]	73.5	30-150							
Tetrachloro-m-xylene [2]	71.0	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-2R

Sampled: 9/13/2017 13:11

Sample ID: 1710542-08

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	90.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-2R

Sampled: 9/13/2017 13:11

Sample ID: 1710542-08

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	9/21/17	9/23/17 13:51	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	52.4	30-150							
Decachlorobiphenyl [2]	61.6	30-150							
Tetrachloro-m-xylene [1]	89.2	30-150							
Tetrachloro-m-xylene [2]	88.3	30-150							

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-3R

Sampled: 9/13/2017 13:12

Sample ID: 1710542-09

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	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1254 [1]	0.80	0.46	mg/Kg dry	20	P-01	SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1260 [2]	1.8	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	79.4	30-150						9/25/17 13:36	
Decachlorobiphenyl [2]	97.1	30-150						9/25/17 13:36	
Tetrachloro-m-xylene [1]	99.6	30-150						9/25/17 13:36	
Tetrachloro-m-xylene [2]	92.8	30-150						9/25/17 13:36	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-3R

Sampled: 9/13/2017 13:12

Sample ID: 1710542-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-3R

Sampled: 9/13/2017 13:12

Sample ID: 1710542-09

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	9/21/17	9/23/17 14:08	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1260 [1]	0.41	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	47.8	30-150						9/23/17 14:08	
Decachlorobiphenyl [2]	56.9	30-150						9/23/17 14:08	
Tetrachloro-m-xylene [1]	86.1	30-150						9/23/17 14:08	
Tetrachloro-m-xylene [2]	86.5	30-150						9/23/17 14:08	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-25-4R

Sampled: 9/13/2017 13:32

Sample ID: 1710542-10

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	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1221 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1232 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1242 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1248 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1254 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1260 [2]	49	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1262 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1268 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/25/17 13:49	
Decachlorobiphenyl [2]	*	30-150			S-01			9/25/17 13:49	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/25/17 13:49	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/25/17 13:49	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-25-4R

Sampled: 9/13/2017 13:32

Sample ID: 1710542-10

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	87.1		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-25-4R

Sampled: 9/13/2017 13:32

Sample ID: 1710542-10

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	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1221 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1232 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1242 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1248 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1254 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1260 [1]	3.6	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1262 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1268 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	49.1	30-150						9/24/17 6:53	
Decachlorobiphenyl [2]	58.1	30-150						9/24/17 6:53	
Tetrachloro-m-xylene [1]	93.2	30-150						9/24/17 6:53	
Tetrachloro-m-xylene [2]	92.1	30-150						9/24/17 6:53	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-2-3R

Sampled: 9/13/2017 14:20

Sample ID: 1710542-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4300	1100	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/21/17 18:24	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/21/17 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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-2-3R

Sampled: 9/13/2017 14:20

Sample ID: 1710542-11

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	90.3		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-2-3R

Sampled: 9/13/2017 14:20

Sample ID: 1710542-11

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.92	0.075	mg/L	1	MS-08	CTDEP ETPH	9/24/17	9/25/17 7:02	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	87.2		50-150				9/25/17 7:02		

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-3-3R

Sampled: 9/13/2017 14:00

Sample ID: 1710542-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6700	1100	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/21/17 18:42	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/21/17 18:42	

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

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-3-3R

Sampled: 9/13/2017 14:00

Sample ID: 1710542-12

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	88.0		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-3-3R

Sampled: 9/13/2017 14:00

Sample ID: 1710542-12

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4.7	0.38	mg/L	5		CTDEP ETPH	9/24/17	9/26/17 0:40	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	99.5		50-150					9/26/17 0:40	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-4-3R

Sampled: 9/13/2017 14:37

Sample ID: 1710542-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1900	230	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/22/17 20:02	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/22/17 20:02	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-4-3R

Sampled: 9/13/2017 14:37

Sample ID: 1710542-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-4-3R

Sampled: 9/13/2017 14:37

Sample ID: 1710542-13

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1.2	0.075	mg/L	1		CTDEP ETPH	9/24/17	9/25/17 7:55	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	86.7		50-150					9/25/17 7:55	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-2R

Sampled: 9/13/2017 14:25

Sample ID: 1710542-14

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	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1254 [1]	1.1	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1260 [2]	3.1	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1268 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	58.1	30-150							
Decachlorobiphenyl [2]	78.1	30-150							
Tetrachloro-m-xylene [1]	73.5	30-150							
Tetrachloro-m-xylene [2]	67.8	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-2R

Sampled: 9/13/2017 14:25

Sample ID: 1710542-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-2R

Sampled: 9/13/2017 14:25

Sample ID: 1710542-14

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	9/21/17	9/23/17 14:43	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.6	30-150							
Decachlorobiphenyl [2]	80.3	30-150							
Tetrachloro-m-xylene [1]	90.4	30-150							
Tetrachloro-m-xylene [2]	89.9	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-3R

Sampled: 9/13/2017 14:26

Sample ID: 1710542-15

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	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1221 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1232 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1242 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1248 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1254 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1260 [1]	330	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1262 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1268 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			9/25/17 16:08	
Decachlorobiphenyl [2]	*	30-150			S-01			9/25/17 16:08	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/25/17 16:08	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/25/17 16:08	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-3R

Sampled: 9/13/2017 14:26

Sample ID: 1710542-15

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	85.9		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-3R

Sampled: 9/13/2017 14:26

Sample ID: 1710542-15

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	9/21/17	9/23/17 15:00	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1260 [2]	1.6	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.1	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	91.6	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-8-1R

Sampled: 9/13/2017 14:46

Sample ID: 1710542-16

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	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1254 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1260 [2]	1.6	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.6	30-150							
Decachlorobiphenyl [2]	99.9	30-150							
Tetrachloro-m-xylene [1]	111	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-8-1R

Sampled: 9/13/2017 14:46

Sample ID: 1710542-16

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	94.5		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-8-1R

Sampled: 9/13/2017 14:46

Sample ID: 1710542-16

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	9/21/17	9/23/17 15:17	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1260 [1]	0.27	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150						9/23/17 15:17	
Decachlorobiphenyl [2]	110	30-150						9/23/17 15:17	
Tetrachloro-m-xylene [1]	95.0	30-150						9/23/17 15:17	
Tetrachloro-m-xylene [2]	94.5	30-150						9/23/17 15:17	

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R

Sampled: 9/13/2017 14:53

Sample ID: 1710542-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	25	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Acenaphthene	51	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Acenaphthylene	0.69	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Acenaphthylene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Anthracene	15	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Anthracene	18	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(a)anthracene	12	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(a)anthracene	10	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(a)pyrene	4.9	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(a)pyrene	5.1	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(b)fluoranthene	6.5	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(b)fluoranthene	6.5	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(g,h,i)perylene	2.0	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(g,h,i)perylene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(k)fluoranthene	2.3	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(k)fluoranthene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Chrysene	11	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Chrysene	9.0	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Dibenz(a,h)anthracene	0.52	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Dibenz(a,h)anthracene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Fluoranthene	35	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Fluoranthene	59	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Fluorene	3.0	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Fluorene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Indeno(1,2,3-cd)pyrene	2.1	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Indeno(1,2,3-cd)pyrene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
2-Methylnaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
2-Methylnaphthalene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Naphthalene	2.3	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Naphthalene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Phenanthrene	12	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Phenanthrene	13	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Pyrene	37	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Pyrene	49	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	56.6	30-130	9/21/17 13:21
Nitrobenzene-d5	53.0	30-130	9/21/17 15:57
2-Fluorobiphenyl	54.5	30-130	9/21/17 13:21
2-Fluorobiphenyl	50.5	30-130	9/21/17 15:57
p-Terphenyl-d14	67.4	30-130	9/21/17 13:21
p-Terphenyl-d14	56.8	30-130	9/21/17 15:57

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R

Sampled: 9/13/2017 14:53

Sample ID: 1710542-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3000	460	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/22/17 20:19	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/22/17 20:19		

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R

Sampled: 9/13/2017 14:53

Sample ID: 1710542-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R

Sampled: 9/13/2017 14:53

Sample ID: 1710542-17

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)	240	0.30	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Acenaphthene (SIM)	340	6.0	µg/L	20	E	SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Acenaphthene (SIM)	400	60	µg/L	200		SW-846 8270D	9/21/17	9/25/17 21:57	CJM
Acenaphthylene (SIM)	1.8	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Acenaphthylene (SIM)	ND	6.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Anthracene (SIM)	12	0.20	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Anthracene (SIM)	14	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(a)anthracene (SIM)	3.5	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(a)anthracene (SIM)	4.0	1.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(a)pyrene (SIM)	1.5	0.10	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(a)pyrene (SIM)	ND	2.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(b)fluoranthene (SIM)	2.1	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(b)fluoranthene (SIM)	2.5	1.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(g,h,i)perylene (SIM)	ND	10	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(k)fluoranthene (SIM)	0.69	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(k)fluoranthene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Chrysene (SIM)	2.3	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Chrysene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Dibenz(a,h)anthracene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Fluoranthene (SIM)	35	0.50	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Fluoranthene (SIM)	42	10	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Fluorene (SIM)	12	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Fluorene (SIM)	14	10	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.46	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
2-Methylnaphthalene (SIM)	2.4	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
2-Methylnaphthalene (SIM)	ND	20	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Naphthalene (SIM)	39	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Naphthalene (SIM)	48	20	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Phenanthrene (SIM)	30	0.050	µg/L	1	B-07, E, B	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Phenanthrene (SIM)	37	1.0	µg/L	20	B	SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Pyrene (SIM)	23	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Pyrene (SIM)	27	20	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	68.2	30-130	
Nitrobenzene-d5	82.9	30-130	
Nitrobenzene-d5	*	30-130	S-01
2-Fluorobiphenyl	75.7	30-130	
2-Fluorobiphenyl	93.0	30-130	
2-Fluorobiphenyl	*	30-130	S-01
p-Terphenyl-d14	53.0	30-130	
p-Terphenyl-d14	65.1	30-130	
p-Terphenyl-d14	*	30-130	S-01

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

Sample Description:

Work Order: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R

Sampled: 9/13/2017 14:53

Sample ID: 1710542-17

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2.5	0.075	mg/L	1		CTDEP ETPH	9/24/17	9/25/17 8:13	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	84.6		50-150				9/25/17 8:13		

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-DUP62

Sampled: 9/13/2017 00:00

Sample ID: 1710542-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4400	1100	mg/Kg dry	100		CTDEP ETPH	9/20/17	9/22/17 20:37	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/22/17 20:37	

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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-DUP62

Sampled: 9/13/2017 00:00

Sample ID: 1710542-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	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: 1710542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-DUP62

Sampled: 9/13/2017 00:00

Sample ID: 1710542-18

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4.4	0.38	mg/L	5		CTDEP ETPH	9/24/17	9/26/17 0:58	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	100		50-150					9/26/17 0:58	

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
17I0542-11 [WS-AOC-07-SO-2-3R]	B186685	30.0	5.00	09/20/17
17I0542-12 [WS-AOC-07-SO-3-3R]	B186685	30.2	5.00	09/20/17
17I0542-13 [WS-AOC-07-SO-4-3R]	B186685	30.0	1.00	09/20/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186685	15.1	1.00	09/20/17
17I0542-18 [WS-AOC-07-SO-DUP62]	B186685	30.2	1.00	09/20/17

Prep Method: SW-846 3510C-CTDEP ETPH

Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-11RE1 [WS-AOC-07-SO-2-3R]	B186922	1000	1.00	09/24/17
17I0542-12RE1 [WS-AOC-07-SO-3-3R]	B186922	1000	1.00	09/24/17
17I0542-13RE1 [WS-AOC-07-SO-4-3R]	B186922	1000	1.00	09/24/17
17I0542-17RE1 [WS-AOC-07-SO-9-3R]	B186922	1000	1.00	09/24/17
17I0542-18RE1 [WS-AOC-07-SO-DUP62]	B186922	1000	1.00	09/24/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0542-01 [WS-AOC-13-SO-5-3R]	B186346	09/15/17
17I0542-02 [WS-AOC-13-SO-6-1R]	B186346	09/15/17
17I0542-03 [WS-AOC-13-SO-9-3R]	B186346	09/15/17
17I0542-04 [WS-AOC-13-SO-19-2R]	B186346	09/15/17
17I0542-05 [WS-AOC-13-SO-21-1R]	B186346	09/15/17
17I0542-06 [WS-AOC-13-SO-22-2R]	B186346	09/15/17
17I0542-07 [WS-AOC-13-SO-23-1R]	B186346	09/15/17
17I0542-08 [WS-AOC-13-SO-23-2R]	B186346	09/15/17
17I0542-09 [WS-AOC-13-SO-23-3R]	B186346	09/15/17
17I0542-10 [WS-AOC-13-SO-25-4R]	B186346	09/15/17
17I0542-11 [WS-AOC-07-SO-2-3R]	B186346	09/15/17
17I0542-12 [WS-AOC-07-SO-3-3R]	B186346	09/15/17
17I0542-13 [WS-AOC-07-SO-4-3R]	B186346	09/15/17
17I0542-14 [WS-AOC-07-SO-7-2R]	B186346	09/15/17
17I0542-15 [WS-AOC-07-SO-7-3R]	B186346	09/15/17
17I0542-16 [WS-AOC-07-SO-8-1R]	B186346	09/15/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186346	09/15/17
17I0542-18 [WS-AOC-07-SO-DUP62]	B186346	09/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-02 [WS-AOC-13-SO-6-1R]	B186678	10.1	10.0	09/20/17
17I0542-04 [WS-AOC-13-SO-19-2R]	B186678	10.3	10.0	09/20/17
17I0542-06 [WS-AOC-13-SO-22-2R]	B186678	10.1	10.0	09/20/17
17I0542-07 [WS-AOC-13-SO-23-1R]	B186678	10.2	10.0	09/20/17
17I0542-08 [WS-AOC-13-SO-23-2R]	B186678	10.1	10.0	09/20/17
17I0542-09 [WS-AOC-13-SO-23-3R]	B186678	10.2	10.0	09/20/17
17I0542-10 [WS-AOC-13-SO-25-4R]	B186678	10.2	10.0	09/20/17
17I0542-14 [WS-AOC-07-SO-7-2R]	B186678	10.3	10.0	09/20/17
17I0542-15 [WS-AOC-07-SO-7-3R]	B186678	10.3	10.0	09/20/17
17I0542-16 [WS-AOC-07-SO-8-1R]	B186678	10.1	10.0	09/20/17

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A
Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-02 [WS-AOC-13-SO-6-1R]	B186723	500	5.00	09/21/17
17I0542-04 [WS-AOC-13-SO-19-2R]	B186723	500	5.00	09/21/17
17I0542-06 [WS-AOC-13-SO-22-2R]	B186723	500	5.00	09/21/17
17I0542-07 [WS-AOC-13-SO-23-1R]	B186723	500	5.00	09/21/17
17I0542-08 [WS-AOC-13-SO-23-2R]	B186723	500	5.00	09/21/17
17I0542-09 [WS-AOC-13-SO-23-3R]	B186723	500	5.00	09/21/17
17I0542-10 [WS-AOC-13-SO-25-4R]	B186723	500	5.00	09/21/17
17I0542-14 [WS-AOC-07-SO-7-2R]	B186723	500	5.00	09/21/17
17I0542-15 [WS-AOC-07-SO-7-3R]	B186723	500	5.00	09/21/17
17I0542-16 [WS-AOC-07-SO-8-1R]	B186723	500	5.00	09/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-03 [WS-AOC-13-SO-9-3R]	B186627	30.5	1.00	09/20/17
17I0542-03RE1 [WS-AOC-13-SO-9-3R]	B186627	30.5	1.00	09/20/17
17I0542-05 [WS-AOC-13-SO-21-1R]	B186627	30.2	1.00	09/20/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186627	15.3	1.00	09/20/17
17I0542-17RE1 [WS-AOC-07-SO-9-3R]	B186627	15.3	1.00	09/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-01RE1 [WS-AOC-13-SO-5-3R]	B186870	30.1	1.00	09/22/17

Prep Method: SW-846 3510C-SW-846 8270D
Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-01 [WS-AOC-13-SO-5-3R]	B186792	1000	1.00	09/21/17
17I0542-03 [WS-AOC-13-SO-9-3R]	B186792	1000	1.00	09/21/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186792	1000	1.00	09/21/17
17I0542-17RE1 [WS-AOC-07-SO-9-3R]	B186792	1000	1.00	09/21/17
17I0542-17RE2 [WS-AOC-07-SO-9-3R]	B186792	1000	1.00	09/21/17

Prep Method: SW-846 3510C-SW-846 8270D
Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-05 [WS-AOC-13-SO-21-1R]	B186838	500	0.500	09/22/17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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							
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	2.30		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 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			
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			
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			
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			
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
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: p-Terphenyl-d14	2.21		mg/Kg wet	3.33		66.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B186627 - SW-846 3546

LCS Dup (B186627-BSD1)

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

Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.350	30	
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140	0.900	30	
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	
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	
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	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	6.87	30	
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.36	30	
Naphthalene	0.974	0.17	mg/Kg wet	1.67		58.4	40-140	3.33	30	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	4.34	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	5.68	30	
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: p-Terphenyl-d14	2.27		mg/Kg wet	3.33		68.0	30-130			

Batch B186870 - SW-846 3546

Blank (B186870-BLK1)

Prepared: 09/22/17 Analyzed: 09/25/17

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.33		65.5	30-130			
Surrogate: p-Terphenyl-d14	2.64		mg/Kg wet	3.33		79.1	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186870 - SW-846 3546										
LCS (B186870-BS1)										
					Prepared: 09/22/17 Analyzed: 09/25/17					
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140			
Anthracene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Benzo(k)fluoranthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140			
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.7	40-140			
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Surrogate: Nitrobenzene-d5	2.69		mg/Kg wet	3.33		80.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.47		mg/Kg wet	3.33		74.0	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/Kg wet	3.33		75.4	30-130			
LCS Dup (B186870-BS1)										
					Prepared: 09/22/17 Analyzed: 09/25/17					
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	0.765	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.256	30	
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	2.04	30	
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	1.13	30	
Benzo(a)pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	0.237	30	
Benzo(b)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	3.47	30	
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	4.37	30	
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140	2.91	30	
Chrysene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	3.59	30	
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	3.62	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	0.216	30	
Fluorene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	1.36	30	
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	4.83	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	0.411	30	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140	1.64	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	1.00	30	
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140	4.26	30	
Surrogate: Nitrobenzene-d5	2.58		mg/Kg wet	3.33		77.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: p-Terphenyl-d14	2.52		mg/Kg wet	3.33		75.5	30-130			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B186678 - SW-846 3540C
Blank (B186678-BLK1)

Prepared: 09/20/17 Analyzed: 09/24/17

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	0.185		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.219		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.5	30-150			

LCS (B186678-BS1)

Prepared: 09/20/17 Analyzed: 09/24/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg wet	0.200		92.5	30-150			

LCS Dup (B186678-BSD1)

Prepared: 09/20/17 Analyzed: 09/24/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.3	40-140	3.27	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	0.0438	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	0.675	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.9	40-140	0.467	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B186678 - SW-846 3540C

Matrix Spike (B186678-MS1)

Source: 1710542-02

Prepared: 09/20/17 Analyzed: 09/25/17

Aroclor-1016	0.18	0.085	mg/Kg dry	0.212	ND	84.2	40-140			
Aroclor-1016 [2C]	0.20	0.085	mg/Kg dry	0.212	ND	94.4	40-140			
Aroclor-1260	0.29	0.085	mg/Kg dry	0.212	0.15	65.4	40-140			
Aroclor-1260 [2C]	0.31	0.085	mg/Kg dry	0.212	0.16	70.4	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg dry	0.212		74.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg dry	0.212		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg dry	0.212		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg dry	0.212		90.0	30-150			

Matrix Spike Dup (B186678-MSD1)

Source: 1710542-02

Prepared: 09/20/17 Analyzed: 09/25/17

Aroclor-1016	0.16	0.084	mg/Kg dry	0.210	ND	73.9	40-140	14.0	50	
Aroclor-1016 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	80.0	40-140	17.6	50	
Aroclor-1260	0.25	0.084	mg/Kg dry	0.210	0.15	46.0	40-140	15.7	50	
Aroclor-1260 [2C]	0.27	0.084	mg/Kg dry	0.210	0.16	52.9	40-140	13.2	50	
Surrogate: Decachlorobiphenyl	0.125		mg/Kg dry	0.210		59.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg dry	0.210		81.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg dry	0.210		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg dry	0.210		77.0	30-150			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B186346 - % Solids

Duplicate (B186346-DUP3)		Source: 1710542-01		Prepared & Analyzed: 09/15/17						
% Solids	86.0		% Wt		84.8			1.41	20	
Duplicate (B186346-DUP4)		Source: 1710542-02		Prepared & Analyzed: 09/15/17						
% Solids	93.7		% Wt		93.2			0.535	20	

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186792 - SW-846 3510C										
Blank (B186792-BLK1)										
Prepared: 09/21/17 Analyzed: 09/22/17										
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)	0.060	0.050	µg/L							B
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	72.6		µg/L	100		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	74.8		µg/L	100		74.8	30-130			
Surrogate: p-Terphenyl-d14	64.3		µg/L	100		64.3	30-130			
LCS (B186792-BS1)										
Prepared: 09/21/17 Analyzed: 09/22/17										
Acenaphthene (SIM)	37.9	7.5	µg/L	50.0		75.8	40-140			
Acenaphthylene (SIM)	37.0	7.5	µg/L	50.0		73.9	40-140			
Anthracene (SIM)	40.3	5.0	µg/L	50.0		80.6	40-140			
Benzo(a)anthracene (SIM)	40.9	1.2	µg/L	50.0		81.8	40-140			
Benzo(a)pyrene (SIM)	42.5	2.5	µg/L	50.0		85.0	40-140			
Benzo(b)fluoranthene (SIM)	43.5	1.2	µg/L	50.0		87.0	40-140			
Benzo(g,h,i)perylene (SIM)	39.4	12	µg/L	50.0		78.7	40-140			
Benzo(k)fluoranthene (SIM)	42.4	5.0	µg/L	50.0		84.8	40-140			
Chrysene (SIM)	41.1	5.0	µg/L	50.0		82.2	40-140			
Dibenz(a,h)anthracene (SIM)	40.7	5.0	µg/L	50.0		81.4	40-140			
Fluoranthene (SIM)	39.3	12	µg/L	50.0		78.6	40-140			
Fluorene (SIM)	38.7	25	µg/L	50.0		77.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.9	5.0	µg/L	50.0		79.8	40-140			
2-Methylnaphthalene (SIM)	35.9	25	µg/L	50.0		71.8	40-140			
Naphthalene (SIM)	35.2	25	µg/L	50.0		70.4	40-140			
Phenanthrene (SIM)	39.3	1.2	µg/L	50.0		78.6	40-140			B
Pyrene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Surrogate: Nitrobenzene-d5	79.7		µg/L	100		79.7	30-130			
Surrogate: 2-Fluorobiphenyl	86.6		µg/L	100		86.6	30-130			
Surrogate: p-Terphenyl-d14	72.9		µg/L	100		72.9	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186792 - SW-846 3510C										
LCS Dup (B186792-BSD1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene (SIM)	37.2	7.5	µg/L	50.0		74.4	40-140	1.86	20	
Acenaphthylene (SIM)	36.2	7.5	µg/L	50.0		72.4	40-140	2.05	20	
Anthracene (SIM)	39.7	5.0	µg/L	50.0		79.4	40-140	1.56	20	
Benzo(a)anthracene (SIM)	39.6	1.2	µg/L	50.0		79.3	40-140	3.10	20	
Benzo(a)pyrene (SIM)	41.3	2.5	µg/L	50.0		82.6	40-140	2.80	20	
Benzo(b)fluoranthene (SIM)	42.6	1.2	µg/L	50.0		85.2	40-140	2.15	20	
Benzo(g,h,i)perylene (SIM)	38.3	12	µg/L	50.0		76.6	40-140	2.64	20	
Benzo(k)fluoranthene (SIM)	41.3	5.0	µg/L	50.0		82.6	40-140	2.63	20	
Chrysene (SIM)	40.0	5.0	µg/L	50.0		80.0	40-140	2.77	20	
Dibenz(a,h)anthracene (SIM)	39.1	5.0	µg/L	50.0		78.2	40-140	4.01	20	
Fluoranthene (SIM)	38.7	12	µg/L	50.0		77.4	40-140	1.60	20	
Fluorene (SIM)	37.7	25	µg/L	50.0		75.4	40-140	2.75	20	
Indeno(1,2,3-cd)pyrene (SIM)	38.6	5.0	µg/L	50.0		77.2	40-140	3.38	20	‡
2-Methylnaphthalene (SIM)	35.2	25	µg/L	50.0		70.3	40-140	2.18	20	
Naphthalene (SIM)	35.6	25	µg/L	50.0		71.2	40-140	1.27	20	
Phenanthrene (SIM)	38.3	1.2	µg/L	50.0		76.6	40-140	2.58	20	B
Pyrene (SIM)	39.6	25	µg/L	50.0		79.2	40-140	4.92	20	
Surrogate: Nitrobenzene-d5	82.5		µg/L	100		82.5	30-130			
Surrogate: 2-Fluorobiphenyl	90.8		µg/L	100		90.8	30-130			
Surrogate: p-Terphenyl-d14	68.7		µg/L	100		68.7	30-130			
Batch B186838 - SW-846 3510C										
Blank (B186838-BLK1)				Prepared: 09/22/17 Analyzed: 09/25/17						
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)	0.061	0.050	µg/L							B
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	0.076	0.050	µg/L							B
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)	1.2	1.0	µg/L							B
Phenanthrene (SIM)	0.051	0.050	µg/L							B
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	91.0		µg/L	100		91.0	30-130			
Surrogate: 2-Fluorobiphenyl	91.1		µg/L	100		91.1	30-130			
Surrogate: p-Terphenyl-d14	80.8		µg/L	100		80.8	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186838 - SW-846 3510C										
LCS (B186838-BS1)										
Prepared: 09/22/17 Analyzed: 09/25/17										
Acenaphthene (SIM)	41.1	7.5	µg/L	50.0		82.2	40-140			
Acenaphthylene (SIM)	40.0	7.5	µg/L	50.0		80.1	40-140			
Anthracene (SIM)	41.9	5.0	µg/L	50.0		83.8	40-140			
Benzo(a)anthracene (SIM)	42.5	1.2	µg/L	50.0		85.0	40-140			B
Benzo(a)pyrene (SIM)	44.2	2.5	µg/L	50.0		88.5	40-140			
Benzo(b)fluoranthene (SIM)	45.3	1.2	µg/L	50.0		90.6	40-140			B
Benzo(g,h,i)perylene (SIM)	43.2	12	µg/L	50.0		86.5	40-140			
Benzo(k)fluoranthene (SIM)	43.6	5.0	µg/L	50.0		87.3	40-140			
Chrysene (SIM)	42.9	5.0	µg/L	50.0		85.8	40-140			
Dibenz(a,h)anthracene (SIM)	40.4	5.0	µg/L	50.0		80.8	40-140			
Fluoranthene (SIM)	42.7	12	µg/L	50.0		85.4	40-140			
Fluorene (SIM)	39.3	25	µg/L	50.0		78.6	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	42.3	5.0	µg/L	50.0		84.6	40-140			
2-Methylnaphthalene (SIM)	38.1	25	µg/L	50.0		76.2	40-140			
Naphthalene (SIM)	38.5	25	µg/L	50.0		77.0	40-140			B
Phenanthrene (SIM)	41.9	1.2	µg/L	50.0		83.8	40-140			B
Pyrene (SIM)	44.4	25	µg/L	50.0		88.9	40-140			
Surrogate: Nitrobenzene-d5	86.6		µg/L	100		86.6	30-130			
Surrogate: 2-Fluorobiphenyl	92.7		µg/L	100		92.7	30-130			
Surrogate: p-Terphenyl-d14	70.4		µg/L	100		70.4	30-130			
LCS Dup (B186838-BSD1)										
Prepared: 09/22/17 Analyzed: 09/25/17										
Acenaphthene (SIM)	48.2	7.5	µg/L	50.0		96.4	40-140	16.0	20	
Acenaphthylene (SIM)	47.1	7.5	µg/L	50.0		94.2	40-140	16.2	20	
Anthracene (SIM)	48.7	5.0	µg/L	50.0		97.4	40-140	15.1	20	
Benzo(a)anthracene (SIM)	49.8	1.2	µg/L	50.0		99.5	40-140	15.7	20	B
Benzo(a)pyrene (SIM)	51.4	2.5	µg/L	50.0		103	40-140	15.0	20	
Benzo(b)fluoranthene (SIM)	52.9	1.2	µg/L	50.0		106	40-140	15.5	20	B
Benzo(g,h,i)perylene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	14.3	20	
Benzo(k)fluoranthene (SIM)	50.6	5.0	µg/L	50.0		101	40-140	14.7	20	
Chrysene (SIM)	49.9	5.0	µg/L	50.0		99.8	40-140	15.1	20	
Dibenz(a,h)anthracene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140	14.7	20	
Fluoranthene (SIM)	50.8	12	µg/L	50.0		102	40-140	17.4	20	
Fluorene (SIM)	47.7	25	µg/L	50.0		95.4	40-140	19.2	20	
Indeno(1,2,3-cd)pyrene (SIM)	49.2	5.0	µg/L	50.0		98.5	40-140	15.1	20	‡
2-Methylnaphthalene (SIM)	46.0	25	µg/L	50.0		92.0	40-140	18.8	20	
Naphthalene (SIM)	45.2	25	µg/L	50.0		90.4	40-140	16.1	20	B
Phenanthrene (SIM)	48.5	1.2	µg/L	50.0		97.0	40-140	14.7	20	B
Pyrene (SIM)	53.1	25	µg/L	50.0		106	40-140	17.8	20	
Surrogate: Nitrobenzene-d5	105		µg/L	100		105	30-130			
Surrogate: 2-Fluorobiphenyl	107		µg/L	100		107	30-130			
Surrogate: p-Terphenyl-d14	86.9		µg/L	100		86.9	30-130			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B186723 - SW-846 3510C

Blank (B186723-BLK1)

Prepared: 09/21/17 Analyzed: 09/23/17

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	1.61		µg/L	2.00		80.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.89		µg/L	2.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.96		µg/L	2.00		97.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.95		µg/L	2.00		97.4	30-150			

LCS (B186723-BS1)

Prepared: 09/21/17 Analyzed: 09/23/17

Aroclor-1016	0.55	0.20	µg/L	0.500		110	40-140			
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		115	40-140			
Aroclor-1260	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Surrogate: Decachlorobiphenyl	1.58		µg/L	2.00		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.85		µg/L	2.00		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	2.06		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.08		µg/L	2.00		104	30-150			

LCS Dup (B186723-BSD1)

Prepared: 09/21/17 Analyzed: 09/23/17

Aroclor-1016	0.55	0.20	µg/L	0.500		110	40-140	0.136	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	3.07	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		100	40-140	7.23	20	
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140	5.47	20	
Surrogate: Decachlorobiphenyl	1.30		µg/L	2.00		64.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.52		µg/L	2.00		76.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.89		µg/L	2.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.89		µg/L	2.00		94.7	30-150			

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QUALITY CONTROL
SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B186723 - SW-846 3510C
Matrix Spike (B186723-MS1)
Source: 1710542-02

Prepared: 09/21/17 Analyzed: 09/23/17

Aroclor-1016	0.63	0.20	µg/L	0.500	ND	126	40-140			
Aroclor-1016 [2C]	0.63	0.20	µg/L	0.500	ND	126	40-140			
Aroclor-1260	0.54	0.20	µg/L	0.500	ND	109	40-140			
Aroclor-1260 [2C]	0.54	0.20	µg/L	0.500	ND	109	40-140			
Surrogate: Decachlorobiphenyl	1.63		µg/L	2.00		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.93		µg/L	2.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	2.11		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.09		µg/L	2.00		104	30-150			

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QUALITY CONTROL
SPLP - Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186922 - SW-846 3510C										
Blank (B186922-BLK1)				Prepared: 09/24/17 Analyzed: 09/25/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.107		mg/L	0.100		107	50-150			
LCS (B186922-BS1)				Prepared & Analyzed: 09/24/17						
CT ETPH	0.655	0.075	mg/L	1.00		65.5	60-120			
Surrogate: o-Terphenyl	0.0961		mg/L	0.100		96.1	50-150			
LCS Dup (B186922-BSD1)				Prepared & Analyzed: 09/24/17						
CT ETPH	0.574	0.075	mg/L	1.00		57.4 *	60-120	13.1	30	L-07
Surrogate: o-Terphenyl	0.0958		mg/L	0.100		95.8	50-150			
Matrix Spike (B186922-MS1)				Source: 1710542-11RE1		Prepared: 09/24/17 Analyzed: 09/25/17				
CT ETPH	1.15	0.066	mg/L	1.47	0.915	15.7 *	50-150			MS-08
Surrogate: o-Terphenyl	0.105		mg/L	0.147		71.5	50-150			

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-13-SO-6-1R***SW-846 8082A*

Lab Sample ID: 17I0542-02 Date(s) Analyzed: 09/24/2017 09/24/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-19-2R

Lab Sample ID: 17I0542-04 Date(s) Analyzed: 09/24/2017 09/24/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.57	
	1	0.000	0.000	0.000	0.34	
	2	0.000	-0.030	0.030	0.61	6.8
	2	0.000	0.000	0.000	0.34	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-22-2R

Lab Sample ID: 1710542-06 Date(s) Analyzed: 09/25/2017 09/25/2017

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-1254	1	0.000	-0.030	0.030	0.79	
	2	0.000	-0.030	0.030	0.77	2.6
Aroclor-1260	1	0.000	-0.030	0.030	2.0	
	1	0.000	0.000	0.000	0.98	
	2	0.000	-0.030	0.030	2.0	0.0
	2	0.000	0.000	0.000	0.98	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-13-SO-23-1R**

Lab Sample ID: 17I0542-07 Date(s) Analyzed: 09/24/2017 09/24/2017
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.46	4.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-23-2R

Lab Sample ID: 17I0542-08 Date(s) Analyzed: 09/24/2017 09/24/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.76	
	2	0.000	-0.030	0.030	0.84	10.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-23-3R

Lab Sample ID: 1710542-09 Date(s) Analyzed: 09/25/2017 09/25/2017

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-1254	1	0.000	-0.030	0.030	0.80	
	2	0.000	-0.030	0.030	0.52	42.4
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	1	0.000	-0.030	0.030	1.8	
	2	0.000	0.000	0.000	0.41	0.0
	2	0.000	-0.030	0.030	1.8	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-25-4R

Lab Sample ID: 17I0542-10 Date(s) Analyzed: 09/24/2017 09/24/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	3.6	
	1	0.000	-0.030	0.030	48	
	2	0.000	-0.030	0.030	49	2.1
	2	0.000	0.000	0.000	3.5	2.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-7-2R

Lab Sample ID: 17I0542-14 Date(s) Analyzed: 09/25/2017 09/25/2017

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-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.87	23.4
Aroclor-1260	1	0.000	-0.030	0.030	3.0	
	2	0.000	-0.030	0.030	3.1	3.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-7-3R

Lab Sample ID: 17I0542-15 Date(s) Analyzed: 09/25/2017 09/25/2017

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-1260	1	0.000	-0.030	0.030	330	
	1	0.000	0.000	0.000	1.6	
	2	0.000	-0.030	0.030	330	0.0
	2	0.000	0.000	0.000	1.6	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-8-1R

Lab Sample ID: 17I0542-16 Date(s) Analyzed: 09/25/2017 09/25/2017

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-1260	1	0.000	-0.030	0.030	1.5	
	1	0.000	0.000	0.000	0.27	
	2	0.000	0.000	0.000	0.26	3.8
	2	0.000	-0.030	0.030	1.6	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.
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.
E	Reported result is estimated. Value reported over verified calibration range.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-08	Matrix spike 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.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%.
RL-12	In accordance with the method, the higher result was reported.
	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.

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 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
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

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
01	WS-PDC-13-SO-5-3R	9/13/17	1217		X	S	U
02	WS-PDC-13-SO-6-1R	9/13/17	1226		X	S	U
03	WS-PDC-13-SO-9-3R	9/13/17	1236		X	S	U
04	WS-PDC-13-SO-19-2R	9/13/17	1246		X	S	U
05	WS-PDC-13-SO-21-1R	9/13/17	1253		X	S	U
06	WS-PDC-13-SO-22-2R	9/13/17	1303		X	S	U
07	WS-PDC-13-SO-23-1R	9/13/17	1310		X	S	U
08	WS-PDC-13-SO-23-2R	9/13/17	1311		X	S	U
09	WS-PDC-13-SO-23-3R	9/13/17	1312		X	S	U
10	WS-PDC-13-SO-25-4R	9/13/17	1332		X	S	U

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

Relinquished by: (signature)	Date/Time: 9/13/17 1515	Detection Limit Requirements	Program Information ☐ MCP Analytical Certification Form Required ☒ RCP Analysis Certification Form Required ☐ MA State DW Form Required PWSID # _____
Received by: (signature)	Date/Time: 9/13/17 1515		
Relinquished by: (signature)	Date/Time: 9/13/17 1617		
Received by: (signature)	Date/Time: 9/13/17 1617		
Relinquished by: (signature)	Date/Time: 9/13/17 1617	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
Received by: (signature)	Date/Time: 9/13/17 1830		



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotinak

Chris Berthiaume/Will Sirotinak

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Chris Berthiaume/Will Sirotinak

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)		Sampled By:		Chris Berthiaume/Will Sirotinak	
Requested Turnaround Time		7-Day ☒		10-Day ☐		5-Day ☐		Other: ☐		Rush Approval Required		1-Day ☐		3-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																					
11		WS-AAC-07-50-2-3R		9/13/17		1420		X		S		U																							
12		WS-AAC-07-50-3-3R		1420																															
13		WS-AAC-07-50-4-3R		1437																															
14		WS-AAC-07-50-7-2R		1425																															
15		WS-AAC-07-50-7-3R		1426																															
16		WS-AAC-07-50-8-1R		1446																															
17		WS-AAC-07-50-9-3R		1453																															
18		WS-AAC-07-50-DUP02		1453																															
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																																	
Relinquished by: (signature)		Date/Time: 9/13/17 1515		MA		Detection Limit Requirements																													
Received by: (signature)		Date/Time: 9/13/17 1515		CT		RES DEC																													
Relinquished by: (signature)		Date/Time: 9/13/17 1617		Other																															
Received by: (signature)		Date/Time: 9/13/17 1617																																	
Relinquished by: (signature)		Date/Time: 9/13/17 1830																																	
Received by: (signature)		Date/Time: 9/13/17 1830																																	

39 Spruce St.
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ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By BLF

Date 9/13/17

Time 1830

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

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

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

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? LA MS/MSD? LA

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	
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:

D:\HPCHEM\1\DATA\A092117\A0921006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/21/17
 Data File Name A0921006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.29	434666	469136	-7
c - 10	1.64	444552	469136	-5
c - 12	2.37	462305	469136	-1
c - 14	3.04	472466	469136	1
c - 16	3.65	483524	469136	3
c - 18	4.28	480653	469136	2
o-Terphenyl	4.57	531990	469136	
c - 20	4.89	487648	469136	4
c - 22	5.39	495927	469136	6
c - 24	5.83	461697	469136	-2
c - 26	6.23	483879	469136	3
c - 28	6.59	475962	469136	1
c - 30	6.92	469828	469136	0
c - 32	7.23	458411	469136	-2
c - 34	7.53	461160	469136	-2
c - 36	7.87	464367	469136	-1

* One compound allowed %D <= 50%

Samples

1710542-11@20X
 1710542-12@20X

D:\HPCHEM\1\DATA\A092217\A0922010.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/22/17
 Data File Name A0922010.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%%D +/- 20
c - 9	1.29	456974	510786	-11
c - 10	1.64	466738	510786	-9
c - 12	2.37	484085	510786	-5
c - 14	3.04	497302	510786	-3
c - 16	3.65	511067	510786	0
c - 18	4.28	508886	510786	0
o-Terphenyl	4.56	565226	510786	
c - 20	4.89	519958	510786	2
c - 22	5.39	533618	510786	4
c - 24	5.83	503071	510786	-2
c - 26	6.22	535236	510786	5
c - 28	6.59	533954	510786	5
c - 30	6.92	535047	510786	5
c - 32	7.23	522753	510786	2
c - 34	7.53	527123	510786	3
c - 36	7.87	525978	510786	3

* One compound allowed %D <= 50%

Samples

17I0542-13@20X
 17I0542-17@20X
 17I0542-18@100X

D:\HPCHEM\1\DATA\A092517\A0925006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/25/17
Data File Name A0925006.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	458707	504043	-9
c - 10	1.64	467983	504043	-7
c - 12	2.37	485882	504043	-4
c - 14	3.04	498008	504043	-1
c - 16	3.65	511626	504043	2
c - 18	4.28	509046	504043	1
o-Terphenyl	4.56	566876	504043	
c - 20	4.89	518484	504043	3
c - 22	5.39	530526	504043	5
c - 24	5.83	498660	504043	-1
c - 26	6.22	529131	504043	5
c - 28	6.58	524835	504043	4
c - 30	6.92	520598	504043	3
c - 32	7.23	505300	504043	0
c - 34	7.52	502911	504043	0
c - 36	7.86	498949	504043	-1

* One compound allowed %D <= 50%

Samples

1710861-05
1710912-01
1710861-06@10X
1710542-12RE1@5X
1710542-18RE@5X

D:\HPCHEM\1\DATA\A092417.SEC\A0924063.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/25/17
 Data File Name A0924063.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.28	607595	632732	-4
c - 10	1.62	617625	632732	-2
c - 12	2.35	634559	632732	0
c - 14	3.01	643805	632732	2
c - 16	3.61	653185	632732	3
c - 18	4.22	640245	632732	1
o-Terphenyl	4.51	708020	632732	
c - 20	4.83	643337	632732	2
c - 22	5.33	649991	632732	3
c - 24	5.77	605843	632732	-4
c - 26	6.16	640178	632732	1
c - 28	6.52	636765	632732	1
c - 30	6.85	635937	632732	1
c - 32	7.16	624468	632732	-1
c - 34	7.45	628234	632732	-1
c - 36	7.76	629210	632732	-1

* One compound allowed %D <= 50%

Samples

17I0798-04
 17I0831-07
 17I0837-08
 17I0837-14
 17I0837-15
 17I0798-03
 17I0542-11RE1
 17I0542-17RE1

D:\HPCHEM\1\DATA\A092517.SEC\A0925007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/25/17
 Data File Name A0925007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.28	550181	571416	-4
c - 10	1.62	558960	571416	-2
c - 12	2.34	575407	571416	1
c - 14	3.01	583321	571416	2
c - 16	3.61	591185	571416	3
c - 18	4.22	578576	571416	1
o-Terphenyl	4.51	640865	571416	
c - 20	4.83	581340	571416	2
c - 22	5.33	586997	571416	3
c - 24	5.77	546887	571416	-4
c - 26	6.16	577444	571416	1
c - 28	6.52	573951	571416	0
c - 30	6.85	572464	571416	0
c - 32	7.16	561876	571416	-2
c - 34	7.45	565482	571416	-1
c - 36	7.76	567162	571416	-1

* One compound allowed %D <= 50%

Samples

17I0850-01@5X
 17I0797-02@5X
 17I0797-03@10X
 17I0797-04@5X
 17I0797-05@5X
 17I0902-02@20X
 17I0902-01@20X
 17I0912-03
 17I0912-04

D:\HPCHEM\1\DATA\A092217.SEC\A0922121.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/23/17
Data File Name A0922121.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.28	659065	692705	-5
c - 10	1.63	676853	692705	-2
c - 12	2.34	696615	692705	1
c - 14	3.01	705509	692705	2
c - 16	3.61	715434	692705	3
c - 18	4.23	701293	692705	1
o-Terphenyl	4.51	777996	692705	
c - 20	4.83	704827	692705	2
c - 22	5.33	711702	692705	3
c - 24	5.77	662635	692705	-4
c - 26	6.16	699493	692705	1
c - 28	6.52	695175	692705	0
c - 30	6.85	696813	692705	1
c - 32	7.16	685743	692705	-1
c - 34	7.45	689613	692705	0
c - 36	7.76	689800	692705	0

* One compound allowed %D <= 50%

Samples
1710750-03

D:\HPCHEM\1\DATA\A092217.SEC\A0922071.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/22/17
 Data File Name A0922071.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	621747	655343	-5
c - 10	1.63	635600	655343	-3
c - 12	2.35	655659	655343	0
c - 14	3.01	667262	655343	2
c - 16	3.61	678344	655343	4
c - 18	4.23	665428	655343	2
o-Terphenyl	4.51	738787	655343	
c - 20	4.83	668731	655343	2
c - 22	5.33	675429	655343	3
c - 24	5.77	628178	655343	-4
c - 26	6.16	663205	655343	1
c - 28	6.52	658674	655343	1
c - 30	6.85	659398	655343	1
c - 32	7.16	648467	655343	-1
c - 34	7.45	652001	655343	-1
c - 36	7.76	652018	655343	-1

* One compound allowed %D <= 50%

Samples

17I0728-01
 17I0728-02
 17I0750-01
 17I0750-02

D:\HPCHEM\1\DATA\A092417\A0924006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/24/17
 Data File Name A0924006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	441425	487428	-9
c - 10	1.64	450458	487428	-8
c - 12	2.37	469082	487428	-4
c - 14	3.04	480667	487428	-1
c - 16	3.65	493307	487428	1
c - 18	4.28	491332	487428	1
o-Terphenyl	4.56	548239	487428	
c - 20	4.89	502052	487428	3
c - 22	5.39	515524	487428	6
c - 24	5.83	486080	487428	0
c - 26	6.22	515868	487428	6
c - 28	6.58	510711	487428	5
c - 30	6.92	503681	487428	3
c - 32	7.23	486439	487428	0
c - 34	7.52	483775	487428	-1
c - 36	7.87	481023	487428	-1

* One compound allowed %D <= 50%

Samples

17I0544-01
 17I0662-03
 17I0662-04
 17I0603-27
 17I0861-05
 17I0661-01
 17I0861-06

D:\HPCHEM\1\DATA\A092417\A0924062.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/25/17
 Data File Name A0924062.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	495106	544608	-9
c - 10	1.64	507885	544608	-7
c - 12	2.37	529231	544608	-3
c - 14	3.04	543691	544608	0
c - 16	3.65	557962	544608	2
c - 18	4.28	554393	544608	2
o-Terphenyl	4.56	614813	544608	
c - 20	4.89	564052	544608	4
c - 22	5.39	575713	544608	6
c - 24	5.83	539826	544608	-1
c - 26	6.22	570669	544608	5
c - 28	6.58	564232	544608	4
c - 30	6.92	557275	544608	2
c - 32	7.23	539902	544608	-1
c - 34	7.52	536492	544608	-1
c - 36	7.86	532684	544608	-2

* One compound allowed %D <= 50%

Samples

17I0719-09RE1
 17I0719-15
 17I0850-02
 17I0719-08RE1
 17I0908-19@25X
 17I0908-20@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: 17I0542

Laboratory Sample ID(s):

17I0542-01 thru 17I0542-18

Sample Date(s):

09/13/2017

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: 09/28/17
Name of Laboratory: Con-Test Analytical Laboratory

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

APPENDIX C

Permit Application Signature Pages

.....

FLOOD PLAIN DEVELOPMENT PERMIT

CITY OF NEW HAVEN, CONNECTICUT

Instructions: Print or type information in space provided, check box ☒ where appropriate.

Address of Application Parcel(s): 510A Grand Avenue

a/k/a: Parcel A

Total Parcel Size in Square Feet: 146,711

Tax Map-Block-Parcel(s): 179/0567/00802

Flood Map Community-Panel Number: 090084 -0441-J

For City Use Only	
File #	
Building Permit #	
Date	
Fee Paid	
Census Tract-Block	

APPLICATION FOR FLOOD PLAIN DEVELOPMENT PERMIT

Yes No

- ☐ ☒ Have all permits from Federal, State or Local Government Agencies requiring prior approval been received?
- ☐ ☒ Will any watercourse be altered or relocated as a result of the proposed development? IF YES, attach description.
- ☐ ☒ Are plans included for any walls to be used to enclose space below base flood elevation?
- ☒ ☐ Are plans included, in duplicate and drawn to scale, showing the nature, location, dimensions and elevations of area in question, existing and/or proposed structures, fill, storage of materials, drainage facilities, and location of foregoing?
- ☐ ☒ Does this Parcel have Flood Insurance? IF YES, Flood Insurance Policy #: _____ Expiration Date: _____ 20

6. Type of Development:

Value of Existing Structure: \$ N/A

Cost of Alteration/Addition/Improvement: \$ \$1,000,000

☒ Excavation ☒ Fill ☒ Grading ☒ Paving ☐ Buildings or Other Structure ☐ Substantial Improvements
☒ Other alterations inside Regulatory Floodway Limits. Specify: No Modifications/Improvements to Structures

7. Owner Information & Consent (If Other than Developer/Agent)

Name David Tropper

Firm Haven River Properties

Street Address 115-10 Queens Blvd. - Suite LL1

City Forest Hills

State NY

Zip 11375

Daytime Phone: _____

☐ Home

☒ Business

☐ Answering Service

☐ Fax: _____

The undersigned, as owner of the property, hereby consents to necessary and proper inspections of the above mentioned property by agents of the City at reasonable times before and after an application is made.

Dated: December 21, 2018

(See Below Under Applicant)

Signature of Owner

8. Developer (If other than Owner)

Name

Firm

Street Address

City

State

Zip

Daytime Phone: _____

☐ Home

☐ Business

☐ Answering Service

☐ Fax: _____

I am the (Check ☒ One): ☐ Property Owner ☐ Option Holder ☐ Other (Describe _____)

9. Authorized Applicant/Agent Information & Certification

Name Shawn C. Crosbie

Firm The United Illuminating Company

Street Address 180 Marsh Hill Road

City Orange

State CT

Zip 06477

Daytime Phone: (203)926-4595

☐ Home

☒ Business

☐ Answering Service

☐ Fax: (203)926-4664

As Applicant/Agent for the ☒ Property Owner ☐ Developer, the undersigned is familiar with all of the information provided in this application and is aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties

Dated: 12/21, 2018

David Tropper (Owner)

Signature of ☒ Applicant ☐ Agent

Shawn C. Crosbie (Applicant)

January 4, 2019

FLOOD PLAIN DEVELOPMENT PERMIT

CITY OF NEW HAVEN, CONNECTICUT

Instructions: Print or type information in space provided, check box ☒ where appropriate.

Address of Application Parcel(s): 510 Grand Avenue

a/k/a: Parcel B

Total Parcel Size in Square Feet: 231,910

Tax Map-Block-Parcel(s): 179/0567/00801

Flood Map Community-Panel Number: 090084 - 0441-J

For City Use Only
File #
Building Permit #
Date
Fees Paid
Census Tract-Block

APPLICATION FOR FLOOD PLAIN DEVELOPMENT PERMIT

Yes No

- ☐ ☒ Have all permits from Federal, State or Local Government Agencies requiring prior approval been received?
- ☐ ☒ Will any watercourse be altered or relocated as a result of the proposed development? IF YES, attach description.
- ☐ ☒ Are plans included for any walls to be used to enclose space below base flood elevation?
- ☒ ☐ Are plans included, in duplicate and drawn to scale, showing the nature, location, dimensions and elevations of area in question, existing and/or proposed structures, fill, storage of materials, drainage facilities, and location of foregong?
- ☐ ☒ Does this Parcel have Flood Insurance?
IF YES, Flood Insurance Policy #: _____ Expiration Date: _____, 20

6. Type of Development:

Value of Existing Structure: \$ N/A

Cost of Alteration/Addition/Improvement: \$ 5770,000

☒ Excavation ☒ Fill ☒ Grading ☒ Paving ☐ Buildings or Other Structure ☐ Substantial Improvements
☒ Other alterations inside Regulatory Floodway Limits. Specify: No Modifications/Improvements to Structures

7. Owner Information & Consent (If Other than Developer/Agent)

Name David Tropper

Firm Haven River Properties

Street Address 115-10 Queens Blvd. - Suite LL1

City Forest Hills

State NY

Zip 11375

Daytime Phone: 917-705-7023

☐ Home

☒ Business

☐ Answering Service

☐ Fax: _____

The undersigned, as owner of the property, hereby consents to necessary and proper inspections of the above mentioned property by agents of the City at reasonable times before and after an application is made.

Dated: December 21, 2018

(See Below Under Applicant)

Signature of Owner

8. Developer (If other than Owner)

Name

Firm

Street Address

City

State

Zip

Daytime Phone: _____

☐ Home

☐ Business

☐ Answering Service

☐ Fax: _____

I am the (Check ☒ One): ☐ Property Owner ☐ Option Holder ☐ Other (Describe _____)

9. Authorized Applicant/Agent Information & Certification

Name Shawn C. Crosbie

Firm The United Illuminating Company

Street Address 180 Marsh Hill Road

City Orange

State CT

Zip 06477

Daytime Phone: (203) 926-4595

☐ Home

☒ Business

☐ Answering Service

☐ Fax: (203) 926-4664

As Applicant/Agent for the ☒ Property Owner ☐ Developer, the undersigned is familiar with all of the information provided in this application and is aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties.

Dated: 12/21, 2018

 (Owner)

Signature of ☒ Applicant ☐ Agent

 (applicant)

January 4, 2019

CITY OF NEW HAVEN, CONNECTICUT

CITY PLAN DEPARTMENT | 165 CHURCH STREET, 5TH FLOOR, NEW HAVEN, CT 06510-2010
PHONE 203.946.6379 FAX 203.946.7815

Application for Development Permit

DATA

CHECK BOX ☒ WHERE APPROPRIATE. PRINT OR TYPE INFORMATION IN SPACE PROVIDED.

1. Project Address(es)

510A Grand Avenue
(Parcel A)

A/K/A:

Tax Map-Block-Parcel(s)

179/0567/00802

Nearest Cross Street: East Street

THIS BOX IS FOR CITY USE ONLY			
	File #	Fee Paid	Date [yy-mm-dd]
☐ Check Here if Fee Exempt.			
☐ As-of Right	#	\$	/ /
☐ Zoning Relief	#	\$	/ /
☐ Development Permit	#	\$	/ /
.....This includes ☐ Site Plan Review. ☐ CSPPR ☐ SEESC... ☐ IW			
☐ Flood Development Permit	#	\$	/ /
☐ Performance Bond	#	\$	/ /
☐ Building Permit	#	\$	/ /

2. Property Owner Information & Consent

Name David Tropper

Firm Haven River Properties

Street Address 115-10 Queens Blvd. - Suite LL1

City Forest Hills State NY ZIP 11375

Daytime Phone: 917-705-7023

☒ Business ☐ Home ☐ Answering Service

☐ Fax: ☐ Cell:

☐ E-Mail:

As OWNER OF THE PROPERTY I hereby authorize this development permit application, and:

1. I consent to necessary and proper inspections of the above property by agents of the City at a reasonable time after an application is made, and
2. I certify that I am familiar with all of the information provided in this application, and
3. I am aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties, and
4. I certify that this project conforms to zoning or has applied for or been granted zoning relief.

Dated: December 21, 2018

Signature of PROPERTY OWNER

3. Applicant Information & Certification

Name Shawn C. Crosbie

Firm The United Illuminating Company

Street Address 180 Marsh Hill Road

City Orange State CT ZIP 06477

Daytime Phone: (203)926-4595

☒ Business ☐ Home ☐ Answering Service

☒ Fax: (203)926-4664 ☒ Cell: (203)926-4595

☒ E-Mail: shawn.crosbie@ui.net.com

As APPLICANT I am familiar with all of the information provided in this application and aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties.

Dated: January 4, 2019

Signature of APPLICANT

4. Authorized Agent Information

Name

Firm

Street Address

City State ZIP

☒ Check here if SAME AS OWNER (Fill in only if not same as Owner.)

Daytime Phone:

☐ Business ☐ Home ☐ Answering Service

☐ Fax: ☐ Cell:

☐ E-Mail:

Check ☐ One: The AUTHORIZED AGENT for the attached Development Application is:

☐ Lessee ☐ Attorney ☐ Architect ☐ Engineer ☐ Real Estate Agent ☐ Contractor ☐ Other-Specify

As AUTHORIZED AGENT I am familiar with all of the information provided in this application and aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties.

Dated: , 20

Signature of AUTHORIZED AGENT

CITY OF NEW HAVEN, CONNECTICUT

CITY PLAN DEPARTMENT | 165 CHURCH STREET, 5TH FLOOR, NEW HAVEN, CT 06510-2010
PHONE 203.946.6379 FAX 203.946.7815

Application for Development Permit

DATA

CHECK BOX ☒ WHERE APPROPRIATE. PRINT OR TYPE INFORMATION IN SPACE PROVIDED.

1. Project Address(es)

510 Grand Avenue
(Parcel B)

A/K/A:

Tax Map-Block-Parcel(s)

179/0567/00801

Nearest Cross Street: East Street

☐ Check Here if Fee Exempt.

☐ As-of Right

☐ Zoning Relief

☐ Development Permit

.....This includes ☐ Site Plan Review. ☐ CSPPR ... ☐ SESC... ☐ IW

☐ Flood Development Permit

☐ Performance Bond

☐ Building Permit

THIS BOX IS FOR CITY USE ONLY

File # Fee Paid Date [yy-mm-dd]

\$ / /

\$ / /

\$ / /

\$ / /

\$ / /

\$ / /

2. Property Owner Information & Consent

Name David Tropper

Firm Haven River Properties

Street Address 115-10 Queens Blvd. - Suite LL1

City Forest Hills State NY ZIP 11375

Daytime Phone: 917-705-7023

☒ Business ☐ Home ☐ Answering Service

☐ Fax: ☐ Cell:

☐ E-Mail:

As OWNER OF THE PROPERTY I hereby authorize this development permit application, and:

1. I consent to necessary and proper inspections of the above property by agents of the City at a reasonable time after an application is made, and

2. I certify that I am familiar with all of the information provided in this application, and

3. I am aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties, and

4. I certify that this project conforms to zoning or has applied for or been granted zoning relief.

Dated: December 21, 2018

Signature of PROPERTY OWNER

3. Applicant Information & Certification

Name Shawn C. Crosbie

Firm The United Illuminating Company

Street Address 180 Marsh Hill Road

City Orange State CT ZIP 06477

☐ Check here if SAME AS OWNER (Fill in only if not same as Owner.)

Daytime Phone: (203)926-4595

☒ Business ☐ Home ☐ Answering Service

☒ Fax: (203)926-4664 ☒ Cell: (203)926-4595

☒ E-Mail: shawn.crosbie@ui.net

As APPLICANT I am familiar with all of the information provided in this application and aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties.

Dated: January 4, 2019

Signature of APPLICANT

4. Authorized Agent Information

Name

Firm

Street Address

City State ZIP

☒ Check here if SAME AS OWNER (Fill in only if not same as Owner.)

Daytime Phone:

☐ Business ☐ Home ☐ Answering Service

☐ Fax: ☒ Cell:

☐ E-Mail:

Check ☒ One: The AUTHORIZED AGENT for the attached Development Application is:

☐ Lessee ☐ Attorney ☐ Architect ☐ Engineer ☐ Real Estate Agent ☐ Contractor ☐ Other-Specify

As AUTHORIZED AGENT I am familiar with all of the information provided in this application and aware that any permit obtained through deception, inaccurate or misleading information is subject to revocation and penalties.

Dated: , 20

Signature of AUTHORIZED AGENT

APPENDIX D

Public Notice Documentation

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HEARST

CONNECTICUT
MEDIA GROUP

Connecticut Post | Greenwich Time | New Haven Register | Stamford Advocate | The Middletown Press
The News-Times | The Norwalk Hour | The Register Citizen

Fairfield Citizen | New Canaan Advertiser | Shelton Herald | Shoreline Times | The Darien Times | The Dolphin | The Foothills Trader | The Litchfield County Times
The Milford Mirror | The Ridgefield Press | The Spectrum | The Trumbull Times | The Wilton Bulletin | West Hartford News | Westport News

TRC
21 GRIFFIN ROAD NORTH

WINDSOR CT 06076

AFFIDAVIT OF PUBLICATION

STATE OF CONNECTICUT
COUNTY OF FAIRFIELD

PUBLIC NOTICE

**NOTICE OF INTENT TO PERFORM REMEDIATION
510 & 510A Grand Avenue – New Haven, CT**

In accordance with Section 22a-134a(l) of the Connecticut General Statutes, the United Illuminating Company hereby provides notice to the public of its plans to perform environmental remediation activities at 510 & 510A Grand Avenue in New Haven, CT (former English Station). The remediation is being performed subject to Partial Consent Order Number COWSPCB 15-001 and Remedial Action Plans provided to the Connecticut Department of Energy and Environmental Protection and the United States Environmental Protection Agency. The remediation activities consist of excavation, removal and off-site disposal of soil and other media impacted by polychlorinated bi-phenyls (PCBS); and the excavation, removal, off-site disposal and placement of polluted soils in order to render them inaccessible in accordance with Sections 22a-133k-1 thru 22a-133k-3, Inclusive of the Regulations of Connecticut State Agencies by covering with clean soil fill and/or bituminous pavement to the required thickness. Inquiries regarding this notification and/or remediation activities should be directed in writing to: Mr. Shawn Crosbie – Project Manager of Remediation CT/MA; United Illuminating Company; 180 Marsh Hill Road; Orange, CT 06477

I, Nicole Moody
Being duly sworn, depose and say
that I am a Representative in the
employ of HEARST CONNECTICUT MEDIA
GROUP, Publisher of the New Haven
Register, that a LEGAL NOTICE as
stated below was published in the
New Haven Register.

Subscribed and sworn to before me
on
this 18th Day of February, A.D.
2019.

Shelley D. Neville
Notary Public

SHELLEY D. NEVILLE
NOTARY PUBLIC OF CONNECTICUT
My Commission Expires 3/31/2023

My commission expires

PO Number

Ad Caption

PUBLIC NOTICE NOTICE OF II

Publication

New Haven Register

Ad Number

0002439672-01

Publication Schedule

2/18/2019

HEARST**CONNECTICUT
MEDIA GROUP**

CONNECTICUT POST | THE NEWS-TIMES | THE ADVOCATE | The Hour | GREENWICH TIME
 Darien News | Fairfield Citizen | New Canaan News | The Spectrum | Westport News | Wilton Villager

Order Confirmation**Ad Order Number**

0002439672

Customer Account

233906

Sales Rep.

jhudson

Customer Information

TRC

Order Taker

jhudson

21 GRIFFIN ROAD NORTH

WINDSOR CT 06076

USA

Ordered By**Phone:****Order Source**

E-mail

Fax:**Email:****Ad Cost**

\$333.82

Payment Amt

\$333.82

Amount Due

\$0.00

Blind Box**Materials****Order Notes**

APPROVED

Ad Number

0002439672-01

External Ad #**Pick Up Number**

0002438084

Ad Type

Legal Liners

Ad Size

2 X 35 II

PO Number**Color**

\$0.00

Color Requests**Product and Zone**

New Haven Register

Inserts

1

Placement

Public Notices

Note: Retail Display Ads May Not End in Identified Placement

Run Dates

2/18/2019

Product and Zone

nhregister.com

Inserts

1

Placement

Public Notices

Note: Retail Display Ads May Not End in Identified Placement

Run Dates

2/18/2019

Ad Content Proof

Note: Ad size does not reflect actual ad

PUBLIC NOTICE**NOTICE OF INTENT TO PERFORM REMEDIATION**
510 & 510A Grand Avenue - New Haven, CT

In accordance with Section 22a-134a(i) of the Connecticut General Statutes, the United Illuminating Company hereby provides notice to the public of its plans to perform environmental remediation activities at 510 & 510A Grand Avenue in New Haven, CT (former English Station). The remediation is being performed subject to Partial Consent Order Number COWSPCB 15-001 and Remedial Action Plans provided to the Connecticut Department of Energy and Environmental Protection and the United States Environmental Protection Agency. The remediation activities consist of excavation, removal and off-site disposal of soil and other media impacted by polychlorinated bi-phenyls (PCBS); and the excavation, removal, off-site disposal and placement of polluted soils in order to render them inaccessible in accordance with Sections 22a-133k-1 thru 22a-133k-3, inclusive of the Regulations of Connecticut State Agencies by covering with clean soil fill and/or bituminous pavement to the required thickness. Inquiries regarding this notification and/or remediation activities should be directed in writing to: Mr. Shawn Crosbie - Project Manager of Remediation CT/MA; United Illuminating Company; 180 Marsh Hill Road; Orange, CT 06477