

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

CTW000547375

203-945-2572

#001017350RED

5. Generator's Name and Mailing Address

Shawn Crosbie

Generator's Site Address (if different than mailing address)

United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477

United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

Generator's Phone:

203-928-4595

6. Transporter 1 Company Name

Alterio

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688

Facility's Phone:

330-866-3435

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)

1

DT

20000

K

2.

3.

4.

13. Special Handling Instructions and Additional Information

Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1) Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

TR#114 Lic#(PA)AG19371 Trailer# T-21 Lis#(PA)PT296H3

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Matt Blumstein (TRC) As an agent of UI

Signature

Matt Blumstein

Month

Day

Year

11 13 20

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Steve Miller

Signature

Steve Miller

Month

Day

Year

11 13 20

Transporter 2 Printed/Typed Name

Signature

Month

Day

Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month

Day

Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month

Day

Year

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DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHWC
913-897-6966

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CTW000617375	2. Page 1 of 1	3. Emergency Response Phone 203-915-2573	4. Waste Tracking Number #001017351RED	
5. Generator's Name and Mailing Address Shawn Crosbie United Illuminating Company 180 Marsh Hill Road AD-1A Orange, CT 06477 Generator's Phone: 203-926-4595			Generator's Site Address (if different than mailing address) United Illuminating Company 510A Grand Avenue Parcel A, Station B New Haven, CT 06511			
6. Transporter 1 Company Name Capello			U.S. EPA ID Number N/A			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Minerva Enterprises, LLC 9000 Minerva Road Waynesburg, OH 44688 Facility's Phone: 330-868-3435			U.S. EPA ID Number			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)		1	DT	20000	K	
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated 1) Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171 TR#106 Lis#(PA)AG68143 Trailer# T-4 Lis#(PA)PT9928K						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offor's Printed/Typed Name Matt Blumstein (TRC) As an agent of UI				Signature [Signature]	Month 1	Day 13
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.				Port of entry/exit:	Year 20	
Transporter Signature (for exports only):				Date leaving U.S.:		
16. Transporter Acknowledgment of Receipt of Materials					Month 1	Day 13
Transporter 1 Printed/Typed Name Antonio Capello 106 814 360-6558				Signature [Signature]	Year 20	
Transporter 2 Printed/Typed Name GARY C.				Signature [Signature]		
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
17b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number		
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)				Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name				Signature	Month Day Year	

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DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHWC
913-897-6966

LABORATORY REPORT

December 13, 2019

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510 Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 19L0326

Enclosed are results of analyses for samples received by the laboratory on December 10, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 12/13/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19L0326

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
TRC-AOC-12N-SW-01	19L0326-01	Surface Water		CTDEP ETPH	
				SM21-22 4500 H B	
				SW-846 1010A	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
TRC-AOC-12N-SED-01	19L0326-02	Sediment		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

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 RCRA 8 metals were requested and reported.

For method 6010, only RCRA 8 metals were requested and reported.

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CTDEP ETPH**Qualifications:****S-01**

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

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

19L0326-02[TRC-AOC-12N-SED-01]

SM21-22 4500 H B**Qualifications:****H-05**

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

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

19L0326-01[TRC-AOC-12N-SW-01], B248180-DUP1

SW-846 6010D**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:**Silver**

B248059-BS1

SW-846 8082A**Qualifications:****P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**Aroclor-1248 [2C]**

19L0326-02[TRC-AOC-12N-SED-01]

SW-846 8260C-D**Qualifications:****L-03**

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

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

19L0326-01[TRC-AOC-12N-SW-01], 19L0326-02[TRC-AOC-12N-SED-01], B248080-BLK1, B248080-BS1, B248086-BLK1, B248086-BS1

1,2,4-Trichlorobenzene

19L0326-01[TRC-AOC-12N-SW-01], 19L0326-02[TRC-AOC-12N-SED-01], B248080-BLK1, B248080-BS1, B248086-BLK1, B248086-BS1

Naphthalene

19L0326-01[TRC-AOC-12N-SW-01], 19L0326-02[TRC-AOC-12N-SED-01], B248080-BLK1, B248080-BS1, B248086-BLK1, B248086-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

19L0326-01[TRC-AOC-12N-SW-01], B248086-BLK1, B248086-BS1, S043667-CCV1

1,2,4-Trichlorobenzene

19L0326-01[TRC-AOC-12N-SW-01], B248086-BLK1, B248086-BS1, S043667-CCV1

Naphthalene

19L0326-01[TRC-AOC-12N-SW-01], B248086-BLK1, B248086-BS1, S043667-CCV1

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V-20

Continuing calibration verification (CCV) 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:**Bromomethane**

B248080-BS1, B248086-BS1, S043664-CCV1, S043667-CCV1

Chloromethane

B248080-BS1, B248086-BS1, S043664-CCV1, S043667-CCV1

SW-846 8270D-E

Qualifications:

E

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

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

19L0326-02[TRC-AOC-12N-SED-01]

Bis(2-Ethylhexyl)phthalate

19L0326-02[TRC-AOC-12N-SED-01]

Fluoranthene

19L0326-02[TRC-AOC-12N-SED-01]

Phenanthrene

19L0326-02[TRC-AOC-12N-SED-01]

Pyrene

19L0326-02[TRC-AOC-12N-SED-01]

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:**2,4-Dinitrophenol**

19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1

L-07

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

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

B248048-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.

Requested reporting limit not met.

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

19L0326-01[TRC-AOC-12N-SW-01]

Pentachlorophenol

19L0326-01[TRC-AOC-12N-SW-01]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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

19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1, S043608-CCV1

Aniline

19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1, S043608-CCV1

Hexachlorocyclopentadiene

S043675-CCV1

Pentachlorophenol

S043675-CCV1

Pyrene

B248072-BLK1, B248072-BS1, B248072-BSD1, S043694-CCV1

Pyridine

19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1, S043608-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

S043675-CCV1

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

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

A handwritten signature in black ink, appearing to read "Tod Kopyscinski". The signature is fluid and cursive, with the first name "Tod" being more prominent and the last name "Kopyscinski" written in a continuous script.

Tod E. Kopyscinski
Laboratory Director

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface 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-D	12/11/19	12/12/19 3:17	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface 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-D	12/11/19	12/12/19 3:17	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Naphthalene	ND	2.0	µg/L	1	L-03, V-05	SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	L-03, V-05	SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	97.6	70-130	
4-Bromofluorobenzene	90.5	70-130	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface 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-E	12/10/19	12/12/19 10:01	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Bis(2-Ethylhexyl)phthalate	ND	2.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Hexachlorobenzene	ND	2.0	µg/L	1	RL-03	SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface 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-E	12/10/19	12/12/19 11:45	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	46.6	15-110							
Phenol-d6	31.6	15-110							
Nitrobenzene-d5	74.0	30-130							
Nitrobenzene-d5	69.5	30-130							
2-Fluorobiphenyl	55.8	30-130							
2-Fluorobiphenyl	87.5	30-130							
2,4,6-Tribromophenol	68.5	15-110							
p-Terphenyl-d14	70.7	30-130							
p-Terphenyl-d14	49.7	30-130							

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Total PCB Aroclors [1]	0.0		µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.3	30-150						12/12/19 10:56	
Decachlorobiphenyl [2]	68.4	30-150						12/12/19 10:56	
Tetrachloro-m-xylene [1]	63.2	30-150						12/12/19 10:56	
Tetrachloro-m-xylene [2]	68.4	30-150						12/12/19 10:56	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.35	0.15	mg/L	1		CTDEP ETPH	12/11/19	12/12/19 13:20	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	57.0		50-150				12/12/19 13:20		

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Barium	ND	10	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Lead	3.0	0.50	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/11/19	12/11/19 12:22	CJV
Selenium	ND	5.0	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01

Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010A	12/12/19	12/12/19 18:00	DJM
pH @19.3°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	12/12/19	12/12/19 12:58	AIA
Reactive Cyanide	ND	3.9	mg/L	1		SW-846 9014	12/12/19	12/13/19 12:50	DJM
Reactive Sulfide	ND	19	mg/L	1		SW-846 9030A	12/12/19	12/13/19 12:35	DJM

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	7.7	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Acrylonitrile	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Benzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromodichloromethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromoform	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromomethane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2-Butanone (MEK)	ND	3.1	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
n-Butylbenzene	0.27	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
sec-Butylbenzene	0.24	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
tert-Butylbenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Carbon Disulfide	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Carbon Tetrachloride	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chlorodibromomethane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chloroethane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chloroform	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chloromethane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2-Chlorotoluene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
4-Chlorotoluene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dibromoethane (EDB)	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Dibromomethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dichlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,3-Dichlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,4-Dichlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
trans-1,4-Dichloro-2-butene	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1-Dichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1-Dichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
cis-1,2-Dichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
trans-1,2-Dichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,3-Dichloropropane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2,2-Dichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1-Dichloropropene	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
cis-1,3-Dichloropropene	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
trans-1,3-Dichloropropene	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Ethylbenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Hexachlorobutadiene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2-Hexanone (MBK)	ND	1.5	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Isopropylbenzene (Cumene)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

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	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Methylene Chloride	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	1.5	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Naphthalene	ND	0.31	mg/Kg dry	1	L-03	SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
n-Propylbenzene	0.21	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Styrene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,1,2-Tetrachloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Tetrachloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Tetrahydrofuran	ND	1.5	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Toluene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,3-Trichlorobenzene	ND	0.77	mg/Kg dry	1	L-03	SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,4-Trichlorobenzene	ND	0.15	mg/Kg dry	1	L-03	SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,1-Trichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,2-Trichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Trichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Trichlorofluoromethane (Freon 11)	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,3-Trichloropropane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,4-Trimethylbenzene	0.94	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,3,5-Trimethylbenzene	0.16	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Vinyl Chloride	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
m+p Xylene	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
o-Xylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Xylenes (total)	ND	0.46	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					12/12/19 6:33	
Toluene-d8		99.0	70-130					12/12/19 6:33	
4-Bromofluorobenzene		96.9	70-130					12/12/19 6:33	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Acenaphthylene	0.54	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Aniline	ND	0.90	mg/Kg dry	1	V-05	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Anthracene	2.1	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(a)anthracene	5.1	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(a)pyrene	5.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(b)fluoranthene	7.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(g,h,i)perylene	5.0	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(k)fluoranthene	2.9	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-chloroethoxy)methane	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-chloroethyl)ether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-Ethylhexyl)phthalate	20	0.90	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-Ethylhexyl)phthalate	19	4.5	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
4-Bromophenylphenylether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Butylbenzylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Carbazole	1.3	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Chloronaphthalene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Chlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Chlorophenylphenylether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Chrysene	6.3	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Dibenz(a,h)anthracene	1.2	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Dibenzofuran	1.2	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Di-n-butylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
3,3-Dichlorobenzidine	ND	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dichlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Diethylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dimethylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Dimethylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4,6-Dinitro-2-methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	1	L-04, V-05	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dinitrotoluene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,6-Dinitrotoluene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Di-n-octylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Fluoranthene	14	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Fluoranthene	13	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
Fluorene	4.0	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachlorobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachlorobutadiene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachlorocyclopentadiene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachloroethane	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Indeno(1,2,3-cd)pyrene	5.6	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isophorone	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Methylnaphthalene	25	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Methylnaphthalene	23	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
2-Methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
3/4-Methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Naphthalene	4.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Nitroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
3-Nitroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Nitroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Nitrobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Nitrophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
N-Nitrosodi-n-propylamine	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pentachloronitrobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pentachlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Phenanthrene	14	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Phenanthrene	14	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
Phenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pyrene	14	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pyrene	12	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
Pyridine	ND	0.90	mg/Kg dry	1	V-05	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
1,2,4-Trichlorobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4,5-Trichlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4,6-Trichlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	54.5	30-130	
2-Fluorophenol	47.2	30-130	
Phenol-d6	54.1	30-130	
Phenol-d6	47.4	30-130	
Nitrobenzene-d5	51.4	30-130	
Nitrobenzene-d5	43.2	30-130	
2-Fluorobiphenyl	70.7	30-130	
2-Fluorobiphenyl	65.4	30-130	
2,4,6-Tribromophenol	75.3	30-130	
2,4,6-Tribromophenol	59.9	30-130	
p-Terphenyl-d14	78.1	30-130	
p-Terphenyl-d14	58.4	30-130	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1248 [2]	0.38	0.21	mg/Kg dry	4	P-02	SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1254 [1]	0.42	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1260 [1]	0.24	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Total PCB Aroclors [1]	1.0		mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	60.2	30-150						12/12/19 14:21	
Decachlorobiphenyl [2]	71.2	30-150						12/12/19 14:21	
Tetrachloro-m-xylene [1]	57.0	30-150						12/12/19 14:21	
Tetrachloro-m-xylene [2]	60.2	30-150						12/12/19 14:21	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	19000	2700	mg/Kg dry	100		CTDEP ETPH	12/10/19	12/13/19 11:23	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	*		50-150		S-01			12/13/19 11:23	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	13	4.5	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Barium	360	4.5	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Cadmium	14	0.45	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Chromium	70	0.89	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Lead	320	1.3	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Mercury	3.9	0.32	mg/Kg dry	5		SW-846 7471B	12/11/19	12/12/19 12:36	CJV
Selenium	ND	8.9	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Silver	36	0.89	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	37.3		% Wt	1		SM 2540G	12/11/19	12/11/19 15:00	adb
Free Liquid	Present		present/absent	1		SW-846 9095B	12/11/19	12/12/19 10:00	LL
Ignitability	Absent		present/absent	1		SW-846 1030	12/13/19	12/13/19 11:15	DJM
pH @19.8°C	7.0		pH Units	1		SW-846 9045C	12/10/19	12/10/19 22:30	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	12/12/19	12/13/19 12:50	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/12/19	12/13/19 12:35	DJM

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01

Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/12/19	12/12/19 17:12	AJL
Barium	0.58	0.50	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Cadmium	ND	0.010	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Chromium	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Lead	ND	0.10	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Selenium	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Silver	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B247989	30.3	1.00	12/10/19

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248113	980	1.00	12/11/19

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248096	12/11/19

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248180	50.0	12/12/19

SW-846 1010A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248269	50.0	50.0	12/12/19

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248328	50.0	12/13/19

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248059	1.50	50.0	12/11/19

Prep Method: SW-846 3010A-SW-846 6010D

Leachates were extracted on 12/11/2019 per SW-846 1311 in Batch B248138

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248239	50.0	50.0	12/12/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248147	50.0	50.0	12/11/19

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248101	6.00	6.00	12/11/19

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

Leachates were extracted on 12/11/2019 per SW-846 1311 in Batch B248138

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248247	6.00	6.00	12/12/19

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248100	0.620	50.0	12/11/19

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248066	10.0	10.0	12/10/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248111	990	10.0	12/11/19

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248080	9.45	10.9	1	50	12/11/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248086	5	5.00	12/11/19

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248048	30.5	1.00	12/10/19
19L0326-02RE1 [TRC-AOC-12N-SED-01]	B248048	30.5	1.00	12/10/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248072	1000	1.00	12/10/19

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Sample Extraction Data**Prep Method: SW-846 3510C-SW-846 8270D-E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248106	1000	1.00	12/10/19

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248220	25.2	250	12/12/19

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248222	25.7	250	12/12/19

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248221	25.2	250	12/12/19

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248224	25.7	250	12/12/19

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248063	20.0		12/10/19

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248089	100	100	12/11/19

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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 B248080 - SW-846 5035
Blank (B248080-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

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

L-03

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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 B248080 - SW-846 5035										
Blank (B248080-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							L-03
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							L-03
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.0030	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: Toluene-d8	0.0248		mg/Kg wet	0.0250		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0228		mg/Kg wet	0.0250		91.3	70-130			
LCS (B248080-BS1)				Prepared & Analyzed: 12/11/19						
Acetone	0.111	0.057	mg/Kg wet	0.113		98.0	40-160			
Acrylonitrile	0.0103	0.0057	mg/Kg wet	0.0113		91.3	70-130			
Benzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Bromobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-130			
Bromodichloromethane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Bromoform	0.0106	0.0011	mg/Kg wet	0.0113		93.7	70-130			
Bromomethane	0.0154	0.0023	mg/Kg wet	0.0113		136	40-160			V-20
2-Butanone (MEK)	0.112	0.023	mg/Kg wet	0.113		99.2	40-160			
n-Butylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130			
sec-Butylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
tert-Butylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Carbon Disulfide	0.119	0.0057	mg/Kg wet	0.113		105	70-130			
Carbon Tetrachloride	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Chlorobenzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
Chlorodibromomethane	0.0118	0.00057	mg/Kg wet	0.0113		104	40-160			
Chloroethane	0.0122	0.0023	mg/Kg wet	0.0113		108	70-130			
Chloroform	0.0126	0.0023	mg/Kg wet	0.0113		111	70-130			
Chloromethane	0.0159	0.0023	mg/Kg wet	0.0113		140	40-160			V-20
2-Chlorotoluene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
4-Chlorotoluene	0.0110	0.0011	mg/Kg wet	0.0113		97.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00971	0.0057	mg/Kg wet	0.0113		85.7	70-130			
1,2-Dibromoethane (EDB)	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130			
Dibromomethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		106	70-130			
1,3-Dichlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,4-Dichlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
trans-1,4-Dichloro-2-butene	0.00910	0.0023	mg/Kg wet	0.0113		80.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0109	0.0023	mg/Kg wet	0.0113		96.2	40-160			
1,1-Dichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2-Dichloroethane	0.0125	0.0011	mg/Kg wet	0.0113		111	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 B248080 - SW-846 5035										
LCS (B248080-BS1)				Prepared & Analyzed: 12/11/19						
1,1-Dichloroethylene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
cis-1,2-Dichloroethylene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
trans-1,2-Dichloroethylene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2-Dichloropropane	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
1,3-Dichloropropane	0.0125	0.00057	mg/Kg wet	0.0113		111	70-130			
2,2-Dichloropropane	0.0100	0.0011	mg/Kg wet	0.0113		88.5	70-130			
1,1-Dichloropropene	0.0127	0.0023	mg/Kg wet	0.0113		112	70-130			
cis-1,3-Dichloropropene	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130			
trans-1,3-Dichloropropene	0.0108	0.00057	mg/Kg wet	0.0113		95.6	70-130			
Ethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Hexachlorobutadiene	0.0109	0.0011	mg/Kg wet	0.0113		96.0	40-160			
2-Hexanone (MBK)	0.107	0.011	mg/Kg wet	0.113		94.2	70-130			
Isopropylbenzene (Cumene)	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
p-Isopropyltoluene (p-Cymene)	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Methylene Chloride	0.0125	0.0057	mg/Kg wet	0.0113		110	70-130			
4-Methyl-2-pentanone (MIBK)	0.109	0.011	mg/Kg wet	0.113		96.5	40-160			
Naphthalene	0.00716	0.0023	mg/Kg wet	0.0113		63.2	* 70-130			L-03
n-Propylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Styrene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,1,1,2-Tetrachloroethane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
1,1,2,2-Tetrachloroethane	0.0122	0.00057	mg/Kg wet	0.0113		108	70-130			
Tetrachloroethylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Tetrahydrofuran	0.0114	0.011	mg/Kg wet	0.0113		101	70-130			
Toluene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2,3-Trichlorobenzene	0.00699	0.0057	mg/Kg wet	0.0113		61.7	* 70-130			L-03
1,2,4-Trichlorobenzene	0.00767	0.0011	mg/Kg wet	0.0113		67.7	* 70-130			L-03
1,1,1-Trichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		112	70-130			
1,1,2-Trichloroethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Trichloroethylene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
Trichlorofluoromethane (Freon 11)	0.0126	0.0023	mg/Kg wet	0.0113		111	40-160			
1,2,3-Trichloropropane	0.0103	0.0023	mg/Kg wet	0.0113		91.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0131	0.0011	mg/Kg wet	0.0113		115	70-130			
1,2,4-Trimethylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
1,3,5-Trimethylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.7	70-130			
Vinyl Chloride	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130			
m+p Xylene	0.0232	0.0023	mg/Kg wet	0.0227		102	70-130			
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Xylenes (total)	0.0352	0.0034	mg/Kg wet	0.0340		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0290		mg/Kg wet	0.0283		102	70-130			
Surrogate: Toluene-d8	0.0280		mg/Kg wet	0.0283		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0273		mg/Kg wet	0.0283		96.3	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 B248086 - SW-846 5030B
Blank (B248086-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

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	1.0	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
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

L-03, V-05

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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 B248086 - SW-846 5030B										
Blank (B248086-BLK1)										
Prepared: 12/11/19 Analyzed: 12/12/19										
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							L-03, V-05
1,2,4-Trichlorobenzene	ND	0.50	µg/L							L-03, V-05
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							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	22.8		µg/L	25.0		91.3	70-130			
LCS (B248086-BS1)										
Prepared & Analyzed: 12/11/19										
Acetone	98.0	10	µg/L	100		98.0	40-160			
Acrylonitrile	9.13	2.0	µg/L	10.0		91.3	70-130			
Benzene	10.8	0.50	µg/L	10.0		108	70-130			
Bromobenzene	9.79	0.50	µg/L	10.0		97.9	70-130			
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130			
Bromoform	9.37	0.50	µg/L	10.0		93.7	70-130			
Bromomethane	13.6	1.0	µg/L	10.0		136	40-160			V-20
2-Butanone (MEK)	99.2	5.0	µg/L	100		99.2	40-160			
n-Butylbenzene	9.64	1.0	µg/L	10.0		96.4	70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Carbon Disulfide	105	5.0	µg/L	100		105	70-130			
Carbon Tetrachloride	10.9	0.50	µg/L	10.0		109	70-130			
Chlorobenzene	10.9	0.50	µg/L	10.0		109	70-130			
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	40-160			
Chloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Chloroform	11.1	0.50	µg/L	10.0		111	70-130			
Chloromethane	14.0	0.60	µg/L	10.0		140	40-160			V-20
2-Chlorotoluene	10.3	0.50	µg/L	10.0		103	70-130			
4-Chlorotoluene	9.70	0.50	µg/L	10.0		97.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.57	1.0	µg/L	10.0		85.7	70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130			
Dibromomethane	10.7	0.50	µg/L	10.0		107	70-130			
1,2-Dichlorobenzene	10.6	0.50	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,4-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	8.03	2.0	µg/L	10.0		80.3	70-130			
Dichlorodifluoromethane (Freon 12)	9.62	0.50	µg/L	10.0		96.2	40-160			
1,1-Dichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
1,2-Dichloroethane	11.1	0.50	µg/L	10.0		111	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 B248086 - SW-846 5030B										
LCS (B248086-BS1)				Prepared & Analyzed: 12/11/19						
1,1-Dichloroethylene	11.0	0.50	µg/L	10.0		110	70-130			
cis-1,2-Dichloroethylene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dichloropropane	10.9	0.50	µg/L	10.0		109	70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
2,2-Dichloropropane	8.85	0.50	µg/L	10.0		88.5	70-130			
1,1-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	9.56	0.50	µg/L	10.0		95.6	70-130			
Ethylbenzene	10.4	0.50	µg/L	10.0		104	70-130			
Hexachlorobutadiene	9.60	0.60	µg/L	10.0		96.0	40-160			
2-Hexanone (MBK)	94.2	5.0	µg/L	100		94.2	70-130			
Isopropylbenzene (Cumene)	10.6	0.50	µg/L	10.0		106	70-130			
p-Isopropyltoluene (p-Cymene)	10.3	0.50	µg/L	10.0		103	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	0.50	µg/L	10.0		101	70-130			
Methylene Chloride	11.0	5.0	µg/L	10.0		110	70-130			
4-Methyl-2-pentanone (MIBK)	96.5	5.0	µg/L	100		96.5	40-160			
Naphthalene	6.32	2.0	µg/L	10.0		63.2 *	70-130			L-03, V-05
n-Propylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Styrene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,1,1,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
Tetrahydrofuran	10.1	10	µg/L	10.0		101	70-130			
Toluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2,3-Trichlorobenzene	6.17	1.0	µg/L	10.0		61.7 *	70-130			L-03, V-05
1,2,4-Trichlorobenzene	6.77	0.50	µg/L	10.0		67.7 *	70-130			L-03, V-05
1,1,1-Trichloroethane	11.2	0.50	µg/L	10.0		112	70-130			
1,1,2-Trichloroethane	11.4	0.50	µg/L	10.0		114	70-130			
Trichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	40-160			
1,2,3-Trichloropropane	9.11	0.50	µg/L	10.0		91.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5	0.50	µg/L	10.0		115	70-130			
1,2,4-Trimethylbenzene	11.0	0.50	µg/L	10.0		110	70-130			
1,3,5-Trimethylbenzene	9.57	0.50	µg/L	10.0		95.7	70-130			
Vinyl Chloride	11.3	1.0	µg/L	10.0		113	70-130			
m+p Xylene	20.4	2.0	µg/L	20.0		102	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Xylenes (total)	31.0	3.0	µg/L	30.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.3	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 B248048 - SW-846 3546										
Blank (B248048-BLK1)				Prepared: 12/10/19 Analyzed: 12/11/19						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
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							
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							L-04, V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248048 - SW-846 3546										
Blank (B248048-BLK1)				Prepared: 12/10/19 Analyzed: 12/11/19						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
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							V-05
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.33		mg/Kg wet	6.67		80.0	30-130			
Surrogate: Phenol-d6	5.18		mg/Kg wet	6.67		77.8	30-130			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		72.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.51		mg/Kg wet	3.33		105	30-130			
Surrogate: 2,4,6-Tribromophenol	5.88		mg/Kg wet	6.67		88.1	30-130			
Surrogate: p-Terphenyl-d14	3.27		mg/Kg wet	3.33		98.0	30-130			
LCS (B248048-BS1)				Prepared: 12/10/19 Analyzed: 12/11/19						
Acenaphthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
Aniline	0.866	0.34	mg/Kg wet	1.67		52.0	40-140			V-05 †
Anthracene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140			
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140			
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140			
Benzo(b)fluoranthene	1.39	0.17	mg/Kg wet	1.67		83.7	40-140			
Benzo(g,h,i)perylene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140			
Benzo(k)fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.7	40-140			
Bis(2-chloroethoxy)methane	1.08	0.34	mg/Kg wet	1.67		64.9	40-140			
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.8	40-140			
Bis(2-chloroisopropyl)ether	1.46	0.34	mg/Kg wet	1.67		87.3	40-140			
Bis(2-Ethylhexyl)phthalate	1.28	0.34	mg/Kg wet	1.67		77.0	40-140			
4-Bromophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.5	40-140			
Butylbenzylphthalate	1.30	0.34	mg/Kg wet	1.67		77.9	40-140			
Carbazole	1.36	0.17	mg/Kg wet	1.67		81.7	40-140			
4-Chloroaniline	1.18	0.66	mg/Kg wet	1.67		71.1	40-140			†
4-Chloro-3-methylphenol	1.44	0.66	mg/Kg wet	1.67		86.5	30-130			
2-Chloronaphthalene	1.22	0.34	mg/Kg wet	1.67		73.4	40-140			
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130			
4-Chlorophenylphenylether	1.43	0.34	mg/Kg wet	1.67		85.7	40-140			
Chrysene	1.41	0.17	mg/Kg wet	1.67		84.9	40-140			
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140			
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		86.0	40-140			
Di-n-butylphthalate	1.32	0.34	mg/Kg wet	1.67		79.5	40-140			
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.2	40-140			†
2,4-Dichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.1	30-130			
Diethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.4	40-140			
2,4-Dimethylphenol	1.27	0.34	mg/Kg wet	1.67		76.5	30-130			
Dimethylphthalate	1.39	0.34	mg/Kg wet	1.67		83.3	40-140			
4,6-Dinitro-2-methylphenol	0.638	0.34	mg/Kg wet	1.67		38.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B248048 - SW-846 3546

LCS (B248048-BS1)

Prepared: 12/10/19 Analyzed: 12/11/19

2,4-Dinitrophenol	0.355	0.66	mg/Kg wet	1.67		21.3	* 30-130			L-04, V-05
2,4-Dinitrotoluene	1.38	0.34	mg/Kg wet	1.67		83.0	40-140			
2,6-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			
Di-n-octylphthalate	1.20	0.34	mg/Kg wet	1.67		72.3	40-140			
Fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140			
Fluorene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140			
Hexachlorobenzene	1.50	0.34	mg/Kg wet	1.67		90.2	40-140			
Hexachlorobutadiene	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
Hexachlorocyclopentadiene	0.944	0.34	mg/Kg wet	1.67		56.6	30-140			
Hexachloroethane	1.02	0.34	mg/Kg wet	1.67		61.2	40-140			
Indeno(1,2,3-cd)pyrene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140			
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
2-Methylnaphthalene	1.44	0.17	mg/Kg wet	1.67		86.7	40-140			
2-Methylphenol	1.19	0.34	mg/Kg wet	1.67		71.5	30-130			
3/4-Methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4	30-130			
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140			
2-Nitroaniline	1.43	0.34	mg/Kg wet	1.67		85.7	40-140			
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2	40-140			†
4-Nitroaniline	1.41	0.34	mg/Kg wet	1.67		84.9	40-140			
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.3	40-140			
2-Nitrophenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130			
4-Nitrophenol	1.45	0.66	mg/Kg wet	1.67		87.2	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.0	40-140			
Pentachloronitrobenzene	1.47	0.34	mg/Kg wet	1.67		87.9	40-140			
Pentachlorophenol	0.542	0.34	mg/Kg wet	1.67		32.5	30-130			
Phenanthrene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140			
Phenol	1.19	0.34	mg/Kg wet	1.67		71.4	20-130			
Pyrene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140			
Pyridine	0.601	0.34	mg/Kg wet	1.67		36.1	10-140			V-05 †
1,2,4,5-Tetrachlorobenzene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140			
1,2,4-Trichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.8	40-140			
2,4,5-Trichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.6	30-130			
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.6	30-130			
Surrogate: 2-Fluorophenol	5.17		mg/Kg wet	6.67		77.6	30-130			
Surrogate: Phenol-d6	5.11		mg/Kg wet	6.67		76.7	30-130			
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: 2-Fluorobiphenyl	3.43		mg/Kg wet	3.33		103	30-130			
Surrogate: 2,4,6-Tribromophenol	7.15		mg/Kg wet	6.67		107	30-130			
Surrogate: p-Terphenyl-d14	3.15		mg/Kg wet	3.33		94.5	30-130			

LCS Dup (B248048-BS1)

Prepared: 12/10/19 Analyzed: 12/11/19

Acenaphthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	3.34	30	
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	2.02	30	
Aniline	0.922	0.34	mg/Kg wet	1.67		55.3	40-140	6.26	50	V-05 † ‡
Anthracene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140	4.80	30	
Benzo(a)anthracene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140	6.34	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140	4.92	30	
Benzo(b)fluoranthene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	4.45	30	
Benzo(g,h,i)perylene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140	4.89	30	
Benzo(k)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	4.62	30	
Bis(2-chloroethoxy)methane	1.07	0.34	mg/Kg wet	1.67		64.1	40-140	1.21	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 B248048 - SW-846 3546										
LCS Dup (B248048-BSD1)					Prepared: 12/10/19 Analyzed: 12/11/19					
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.3	40-140	0.718	30	
Bis(2-chloroisopropyl)ether	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	0.505	30	
Bis(2-Ethylhexyl)phthalate	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	5.66	30	
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.7	40-140	5.78	30	
Butylbenzylphthalate	1.24	0.34	mg/Kg wet	1.67		74.1	40-140	4.95	30	
Carbazole	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	4.56	30	
4-Chloroaniline	1.23	0.66	mg/Kg wet	1.67		73.9	40-140	3.95	30	†
4-Chloro-3-methylphenol	1.38	0.66	mg/Kg wet	1.67		83.0	30-130	4.11	30	
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.1	40-140	7.41	30	
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.67		73.5	30-130	0.326	30	
4-Chlorophenylphenylether	1.40	0.34	mg/Kg wet	1.67		83.8	40-140	2.24	30	
Chrysene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	4.90	30	
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	4.96	30	
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.3	40-140	0.841	30	
Di-n-butylphthalate	1.26	0.34	mg/Kg wet	1.67		75.4	40-140	5.22	30	
3,3-Dichlorobenzidine	1.51	0.17	mg/Kg wet	1.67		90.6	40-140	1.73	30	† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.7	30-130	2.92	30	
Diethylphthalate	1.37	0.34	mg/Kg wet	1.67		82.5	40-140	2.35	30	
2,4-Dimethylphenol	1.26	0.34	mg/Kg wet	1.67		75.5	30-130	1.26	30	
Dimethylphthalate	1.35	0.34	mg/Kg wet	1.67		81.0	40-140	2.80	50	
4,6-Dinitro-2-methylphenol	0.578	0.34	mg/Kg wet	1.67		34.7	30-130	9.87	50	
2,4-Dinitrophenol	0.352	0.66	mg/Kg wet	1.67		21.1 *	30-130	0.755	50	L-04, V-05
2,4-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140	3.18	30	
2,6-Dinitrotoluene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	4.95	30	
Di-n-octylphthalate	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	5.75	30	
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.1	40-140	4.94	30	
Fluorene	1.39	0.17	mg/Kg wet	1.67		83.4	40-140	1.14	30	
Hexachlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	5.98	30	
Hexachlorobutadiene	1.26	0.34	mg/Kg wet	1.67		75.5	40-140	0.0530	30	
Hexachlorocyclopentadiene	0.939	0.34	mg/Kg wet	1.67		56.3	30-140	0.531	50	
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.5	40-140	0.521	50	
Indeno(1,2,3-cd)pyrene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140	4.67	50	
Isophorone	1.19	0.34	mg/Kg wet	1.67		71.2	40-140	1.48	30	
2-Methylnaphthalene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140	1.84	30	
2-Methylphenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130	2.61	30	
3/4-Methylphenol	1.24	0.34	mg/Kg wet	1.67		74.3	30-130	2.76	30	
Naphthalene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140	1.10	30	
2-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.5	40-140	3.71	30	
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	0.420	30	†
4-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		83.1	40-140	2.12	30	
Nitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	2.19	30	
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.5	30-130	0.988	30	
4-Nitrophenol	1.44	0.66	mg/Kg wet	1.67		86.4	10-130	0.921	50	‡
N-Nitrosodiphenylamine/Diphenylamine	1.39	0.34	mg/Kg wet	1.67		83.2	40-140	4.53	30	
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.3	40-140	0.506	30	
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		83.9	40-140	4.66	30	
Pentachlorophenol	0.449	0.34	mg/Kg wet	1.67		26.9 *	30-130	18.8	50	L-07
Phenanthrene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140	5.93	30	
Phenol	1.17	0.34	mg/Kg wet	1.67		70.5	20-130	1.35	30	
Pyrene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	4.87	30	
Pyridine	0.611	0.34	mg/Kg wet	1.67		36.6	10-140	1.60	50	V-05 †
1,2,4,5-Tetrachlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.6	40-140	0.997	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 B248048 - SW-846 3546
LCS Dup (B248048-BSD1)

Prepared: 12/10/19 Analyzed: 12/11/19

1,2,4-Trichlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.2	40-140	2.03	30	
2,4,5-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.1	30-130	2.85	30	
2,4,6-Trichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	3.28	50	
Surrogate: 2-Fluorophenol	5.08		mg/Kg wet	6.67		76.1	30-130			
Surrogate: Phenol-d6	4.98		mg/Kg wet	6.67		74.7	30-130			
Surrogate: Nitrobenzene-d5	2.28		mg/Kg wet	3.33		68.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.35		mg/Kg wet	3.33		100	30-130			
Surrogate: 2,4,6-Tribromophenol	6.78		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	2.90		mg/Kg wet	3.33		86.9	30-130			

Batch B248072 - SW-846 3510C
Blank (B248072-BLK1)

Prepared: 12/10/19 Analyzed: 12/12/19

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	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	2.0	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							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	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							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	2.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	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
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Batch B248072 - SW-846 3510C

Blank (B248072-BLK1)

Prepared: 12/10/19 Analyzed: 12/12/19

Hexachloroethane	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	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/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							V-05
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	95.7		µg/L	200		47.8	15-110			
Surrogate: Phenol-d6	64.8		µg/L	200		32.4	15-110			
Surrogate: Nitrobenzene-d5	65.5		µg/L	100		65.5	30-130			
Surrogate: 2-Fluorobiphenyl	80.3		µg/L	100		80.3	30-130			
Surrogate: 2,4,6-Tribromophenol	128		µg/L	200		64.0	15-110			
Surrogate: p-Terphenyl-d14	66.8		µg/L	100		66.8	30-130			

LCS (B248072-BS1)

Prepared: 12/10/19 Analyzed: 12/12/19

Acenaphthene	39.5	5.0	µg/L	50.0		79.0	40-140			
Acenaphthylene	39.6	5.0	µg/L	50.0		79.1	40-140			
Aniline	32.0	5.0	µg/L	50.0		64.0	40-140			†
Anthracene	41.8	5.0	µg/L	50.0		83.6	40-140			
Benzo(a)anthracene	42.9	5.0	µg/L	50.0		85.8	40-140			
Benzo(a)pyrene	41.4	5.0	µg/L	50.0		82.8	40-140			
Benzo(b)fluoranthene	41.8	5.0	µg/L	50.0		83.6	40-140			
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4	40-140			
Benzo(k)fluoranthene	44.9	5.0	µg/L	50.0		89.8	40-140			
Bis(2-chloroethoxy)methane	41.6	10	µg/L	50.0		83.2	40-140			
Bis(2-chloroethyl)ether	39.6	10	µg/L	50.0		79.2	40-140			
Bis(2-chloroisopropyl)ether	44.0	10	µg/L	50.0		88.0	40-140			
Bis(2-Ethylhexyl)phthalate	42.4	10	µg/L	50.0		84.7	40-140			
4-Bromophenylphenylether	40.0	10	µg/L	50.0		80.0	40-140			
Butylbenzylphthalate	40.9	10	µg/L	50.0		81.9	40-140			
Carbazole	41.8	10	µg/L	50.0		83.5	40-140			
4-Chloroaniline	37.9	10	µg/L	50.0		75.8	40-140			†
4-Chloro-3-methylphenol	41.8	10	µg/L	50.0		83.5	30-130			
2-Chloronaphthalene	33.3	10	µg/L	50.0		66.6	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 B248072 - SW-846 3510C										
LCS (B248072-BS1)				Prepared: 12/10/19 Analyzed: 12/12/19						
2-Chlorophenol	36.9	10	µg/L	50.0		73.9	30-130			
4-Chlorophenylphenylether	41.0	10	µg/L	50.0		81.9	40-140			
Chrysene	42.9	5.0	µg/L	50.0		85.8	40-140			
Dibenz(a,h)anthracene	39.2	5.0	µg/L	50.0		78.4	40-140			
Dibenzofuran	41.6	5.0	µg/L	50.0		83.2	40-140			
Di-n-butylphthalate	41.3	10	µg/L	50.0		82.5	40-140			
3,3-Dichlorobenzidine	47.1	10	µg/L	50.0		94.2	40-140			†
2,4-Dichlorophenol	40.5	10	µg/L	50.0		81.0	30-130			
Diethylphthalate	41.6	10	µg/L	50.0		83.2	40-140			
2,4-Dimethylphenol	37.0	10	µg/L	50.0		74.0	30-130			
Dimethylphthalate	41.3	10	µg/L	50.0		82.7	40-140			
4,6-Dinitro-2-methylphenol	40.6	10	µg/L	50.0		81.2	30-130			
2,4-Dinitrophenol	40.8	10	µg/L	50.0		81.7	30-130			
2,4-Dinitrotoluene	43.1	10	µg/L	50.0		86.2	40-140			
2,6-Dinitrotoluene	43.0	10	µg/L	50.0		86.1	40-140			
Di-n-octylphthalate	43.9	10	µg/L	50.0		87.7	40-140			
Fluoranthene	42.6	5.0	µg/L	50.0		85.1	40-140			
Fluorene	41.8	5.0	µg/L	50.0		83.5	40-140			
Hexachlorobenzene	40.4	10	µg/L	50.0		80.8	40-140			
Hexachlorobutadiene	31.0	10	µg/L	50.0		62.0	40-140			
Hexachlorocyclopentadiene	30.5	10	µg/L	50.0		61.1	30-140			
Hexachloroethane	28.9	10	µg/L	50.0		57.8	40-140			
Indeno(1,2,3-cd)pyrene	41.6	5.0	µg/L	50.0		83.2	40-140			
Isophorone	42.3	10	µg/L	50.0		84.6	40-140			
2-Methylnaphthalene	42.6	5.0	µg/L	50.0		85.2	40-140			
2-Methylphenol	33.4	10	µg/L	50.0		66.8	30-130			
3/4-Methylphenol	34.8	10	µg/L	50.0		69.6	30-130			
Naphthalene	35.9	5.0	µg/L	50.0		71.8	40-140			
2-Nitroaniline	49.9	10	µg/L	50.0		99.8	40-140			
3-Nitroaniline	39.9	10	µg/L	50.0		79.9	40-140			†
4-Nitroaniline	44.5	10	µg/L	50.0		89.0	40-140			
Nitrobenzene	38.1	10	µg/L	50.0		76.1	40-140			
2-Nitrophenol	40.2	10	µg/L	50.0		80.5	30-130			
4-Nitrophenol	22.4	10	µg/L	50.0		44.9	10-130			
N-Nitrosodiphenylamine/Diphenylamine	42.2	10	µg/L	50.0		84.4	40-140			
N-Nitrosodi-n-propylamine	42.4	10	µg/L	50.0		84.8	40-140			
Pentachloronitrobenzene	45.4	10	µg/L	50.0		90.7	40-140			
Pentachlorophenol	42.3	10	µg/L	50.0		84.6	30-130			
Phenanthrene	41.7	5.0	µg/L	50.0		83.4	40-140			
Phenol	17.7	10	µg/L	50.0		35.4	20-130			
Pyrene	38.8	5.0	µg/L	50.0		77.6	40-140			V-05
Pyridine	10.6	5.0	µg/L	50.0		21.3	10-140			†
1,2,4,5-Tetrachlorobenzene	35.4	10	µg/L	50.0		70.9	40-140			
1,2,4-Trichlorobenzene	34.2	5.0	µg/L	50.0		68.4	40-140			
2,4,5-Trichlorophenol	40.2	10	µg/L	50.0		80.3	30-130			
2,4,6-Trichlorophenol	40.2	10	µg/L	50.0		80.4	30-130			
Surrogate: 2-Fluorophenol	106		µg/L	200		52.8	15-110			
Surrogate: Phenol-d6	74.8		µg/L	200		37.4	15-110			
Surrogate: Nitrobenzene-d5	78.0		µg/L	100		78.0	30-130			
Surrogate: 2-Fluorobiphenyl	95.0		µg/L	100		95.0	30-130			
Surrogate: 2,4,6-Tribromophenol	184		µg/L	200		92.0	15-110			
Surrogate: p-Terphenyl-d14	81.6		µg/L	100		81.6	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248072 - SW-846 3510C										
LCS Dup (B248072-BSD1)										
Prepared: 12/10/19 Analyzed: 12/12/19										
Acenaphthene	37.6	5.0	µg/L	50.0		75.3	40-140	4.85	20	
Acenaphthylene	36.7	5.0	µg/L	50.0		73.4	40-140	7.47	20	
Aniline	27.3	5.0	µg/L	50.0		54.7	40-140	15.7	50	† ‡
Anthracene	38.4	5.0	µg/L	50.0		76.7	40-140	8.63	20	
Benzo(a)anthracene	38.3	5.0	µg/L	50.0		76.7	40-140	11.2	20	
Benzo(a)pyrene	37.4	5.0	µg/L	50.0		74.8	40-140	10.1	20	
Benzo(b)fluoranthene	38.1	5.0	µg/L	50.0		76.3	40-140	9.21	20	
Benzo(g,h,i)perylene	36.2	5.0	µg/L	50.0		72.4	40-140	10.4	20	
Benzo(k)fluoranthene	39.6	5.0	µg/L	50.0		79.1	40-140	12.6	20	
Bis(2-chloroethoxy)methane	39.0	10	µg/L	50.0		78.0	40-140	6.45	20	
Bis(2-chloroethyl)ether	34.5	10	µg/L	50.0		69.0	40-140	13.8	20	
Bis(2-chloroisopropyl)ether	38.0	10	µg/L	50.0		76.0	40-140	14.7	20	
Bis(2-Ethylhexyl)phthalate	37.7	10	µg/L	50.0		75.5	40-140	11.6	20	
4-Bromophenylphenylether	36.8	10	µg/L	50.0		73.5	40-140	8.42	20	
Butylbenzylphthalate	36.1	10	µg/L	50.0		72.2	40-140	12.5	20	
Carbazole	38.4	10	µg/L	50.0		76.8	40-140	8.44	20	
4-Chloroaniline	33.3	10	µg/L	50.0		66.6	40-140	13.0	20	†
4-Chloro-3-methylphenol	38.9	10	µg/L	50.0		77.7	30-130	7.17	20	
2-Chloronaphthalene	30.4	10	µg/L	50.0		60.8	40-140	9.01	20	
2-Chlorophenol	32.2	10	µg/L	50.0		64.5	30-130	13.6	20	
4-Chlorophenylphenylether	38.2	10	µg/L	50.0		76.4	40-140	7.05	20	
Chrysene	38.1	5.0	µg/L	50.0		76.3	40-140	11.7	20	
Dibenz(a,h)anthracene	35.1	5.0	µg/L	50.0		70.1	40-140	11.1	20	
Dibenzofuran	39.2	5.0	µg/L	50.0		78.3	40-140	5.97	20	
Di-n-butylphthalate	36.8	10	µg/L	50.0		73.6	40-140	11.4	20	
3,3-Dichlorobenzidine	41.7	10	µg/L	50.0		83.3	40-140	12.2	20	† ‡
2,4-Dichlorophenol	38.6	10	µg/L	50.0		77.1	30-130	4.93	20	
Diethylphthalate	39.3	10	µg/L	50.0		78.6	40-140	5.69	20	
2,4-Dimethylphenol	35.3	10	µg/L	50.0		70.6	30-130	4.70	20	
Dimethylphthalate	37.6	10	µg/L	50.0		75.2	40-140	9.40	50	
4,6-Dinitro-2-methylphenol	37.2	10	µg/L	50.0		74.3	30-130	8.82	50	
2,4-Dinitrophenol	39.2	10	µg/L	50.0		78.3	30-130	4.17	50	
2,4-Dinitrotoluene	40.1	10	µg/L	50.0		80.3	40-140	7.14	20	
2,6-Dinitrotoluene	41.6	10	µg/L	50.0		83.2	40-140	3.43	20	
Di-n-octylphthalate	38.2	10	µg/L	50.0		76.3	40-140	13.9	20	
Fluoranthene	39.1	5.0	µg/L	50.0		78.1	40-140	8.53	20	
Fluorene	39.6	5.0	µg/L	50.0		79.3	40-140	5.21	20	
Hexachlorobenzene	37.0	10	µg/L	50.0		73.9	40-140	8.87	20	
Hexachlorobutadiene	28.1	10	µg/L	50.0		56.2	40-140	9.75	20	
Hexachlorocyclopentadiene	28.9	10	µg/L	50.0		57.8	30-140	5.49	50	
Hexachloroethane	23.6	10	µg/L	50.0		47.2	40-140	20.2	50	
Indeno(1,2,3-cd)pyrene	38.4	5.0	µg/L	50.0		76.9	40-140	7.92	50	
Isophorone	39.5	10	µg/L	50.0		78.9	40-140	6.90	20	
2-Methylnaphthalene	39.8	5.0	µg/L	50.0		79.5	40-140	6.87	20	
2-Methylphenol	30.2	10	µg/L	50.0		60.3	30-130	10.3	20	
3/4-Methylphenol	30.7	10	µg/L	50.0		61.4	30-130	12.6	20	
Naphthalene	33.5	5.0	µg/L	50.0		66.9	40-140	6.98	20	
2-Nitroaniline	45.6	10	µg/L	50.0		91.1	40-140	9.13	20	
3-Nitroaniline	36.0	10	µg/L	50.0		71.9	40-140	10.5	20	†
4-Nitroaniline	42.0	10	µg/L	50.0		84.0	40-140	5.73	20	
Nitrobenzene	34.9	10	µg/L	50.0		69.9	40-140	8.60	20	
2-Nitrophenol	36.9	10	µg/L	50.0		73.8	30-130	8.61	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 B248072 - SW-846 3510C

LCS Dup (B248072-BSD1)

Prepared: 12/10/19 Analyzed: 12/12/19

4-Nitrophenol	20.9	10	µg/L	50.0		41.8	10-130	7.01	50	‡
N-Nitrosodiphenylamine/Diphenylamine	38.3	10	µg/L	50.0		76.6	40-140	9.74	20	
N-Nitrosodi-n-propylamine	37.6	10	µg/L	50.0		75.2	40-140	12.0	20	
Pentachloronitrobenzene	40.0	10	µg/L	50.0		79.9	40-140	12.6	20	
Pentachlorophenol	38.9	10	µg/L	50.0		77.9	30-130	8.27	50	
Phenanthrene	38.8	5.0	µg/L	50.0		77.6	40-140	7.20	20	
Phenol	15.6	10	µg/L	50.0		31.3	20-130	12.4	20	
Pyrene	34.3	5.0	µg/L	50.0		68.6	40-140	12.3	20	V-05
Pyridine	10.4	5.0	µg/L	50.0		20.8	10-140	2.09	50	†
1,2,4,5-Tetrachlorobenzene	33.3	10	µg/L	50.0		66.6	40-140	6.14	20	
1,2,4-Trichlorobenzene	30.7	5.0	µg/L	50.0		61.4	40-140	10.8	20	
2,4,5-Trichlorophenol	37.5	10	µg/L	50.0		75.1	30-130	6.75	20	
2,4,6-Trichlorophenol	37.3	10	µg/L	50.0		74.7	30-130	7.40	50	
Surrogate: 2-Fluorophenol	90.3		µg/L	200		45.2	15-110			
Surrogate: Phenol-d6	65.8		µg/L	200		32.9	15-110			
Surrogate: Nitrobenzene-d5	71.4		µg/L	100		71.4	30-130			
Surrogate: 2-Fluorobiphenyl	87.9		µg/L	100		87.9	30-130			
Surrogate: 2,4,6-Tribromophenol	170		µg/L	200		85.2	15-110			
Surrogate: p-Terphenyl-d14	72.0		µg/L	100		72.0	30-130			

Batch B248106 - SW-846 3510C

Blank (B248106-BLK1)

Prepared: 12/10/19 Analyzed: 12/11/19

Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	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	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	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	80.1		µg/L	100		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	64.6		µg/L	100		64.6	30-130			
Surrogate: p-Terphenyl-d14	66.5		µg/L	100		66.5	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
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Batch B248106 - SW-846 3510C
LCS (B248106-BS1)

Prepared: 12/10/19 Analyzed: 12/11/19

Acenaphthene (SIM)	29.9	6.0	µg/L	50.0		59.8	40-140			
Acenaphthylene (SIM)	30.6	4.0	µg/L	50.0		61.2	40-140			
Anthracene (SIM)	34.0	4.0	µg/L	50.0		68.0	40-140			
Benzo(a)anthracene (SIM)	34.3	1.0	µg/L	50.0		68.6	40-140			
Benzo(a)pyrene (SIM)	31.5	2.0	µg/L	50.0		63.0	40-140			
Benzo(b)fluoranthene (SIM)	36.0	1.0	µg/L	50.0		72.0	40-140			
Benzo(g,h,i)perylene (SIM)	32.8	10	µg/L	50.0		65.6	40-140			
Benzo(k)fluoranthene (SIM)	38.0	4.0	µg/L	50.0		76.0	40-140			
Chrysene (SIM)	29.3	4.0	µg/L	50.0		58.6	40-140			
Dibenz(a,h)anthracene (SIM)	36.7	2.0	µg/L	50.0		73.4	40-140			
Fluoranthene (SIM)	31.8	10	µg/L	50.0		63.5	40-140			
Fluorene (SIM)	31.3	20	µg/L	50.0		62.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	40.4	2.0	µg/L	50.0		80.8	40-140			
2-Methylnaphthalene (SIM)	30.0	20	µg/L	50.0		60.1	40-140			
Naphthalene (SIM)	27.1	20	µg/L	50.0		54.2	40-140			
Phenanthrene (SIM)	30.9	1.0	µg/L	50.0		61.8	40-140			
Pyrene (SIM)	29.8	20	µg/L	50.0		59.6	40-140			
Surrogate: Nitrobenzene-d5	60.3		µg/L	100		60.3	30-130			
Surrogate: 2-Fluorobiphenyl	59.5		µg/L	100		59.5	30-130			
Surrogate: p-Terphenyl-d14	45.7		µg/L	100		45.7	30-130			

LCS Dup (B248106-BS1)

Prepared: 12/10/19 Analyzed: 12/11/19

Acenaphthene (SIM)	32.1	6.0	µg/L	50.0		64.3	40-140	7.15	20	
Acenaphthylene (SIM)	33.0	4.0	µg/L	50.0		66.1	40-140	7.60	20	
Anthracene (SIM)	36.2	4.0	µg/L	50.0		72.5	40-140	6.32	20	
Benzo(a)anthracene (SIM)	36.2	1.0	µg/L	50.0		72.4	40-140	5.39	20	
Benzo(a)pyrene (SIM)	33.1	2.0	µg/L	50.0		66.2	40-140	4.96	20	
Benzo(b)fluoranthene (SIM)	37.7	1.0	µg/L	50.0		75.4	40-140	4.67	20	
Benzo(g,h,i)perylene (SIM)	33.7	10	µg/L	50.0		67.4	40-140	2.65	20	
Benzo(k)fluoranthene (SIM)	39.6	4.0	µg/L	50.0		79.2	40-140	4.07	20	
Chrysene (SIM)	30.4	4.0	µg/L	50.0		60.8	40-140	3.62	20	
Dibenz(a,h)anthracene (SIM)	38.0	2.0	µg/L	50.0		76.0	40-140	3.48	20	
Fluoranthene (SIM)	33.5	10	µg/L	50.0		67.0	40-140	5.39	20	
Fluorene (SIM)	33.8	20	µg/L	50.0		67.7	40-140	7.93	20	
Indeno(1,2,3-cd)pyrene (SIM)	41.9	2.0	µg/L	50.0		83.8	40-140	3.60	20	‡
2-Methylnaphthalene (SIM)	32.7	20	µg/L	50.0		65.4	40-140	8.42	20	
Naphthalene (SIM)	28.9	20	µg/L	50.0		57.7	40-140	6.29	20	
Phenanthrene (SIM)	32.7	1.0	µg/L	50.0		65.4	40-140	5.66	20	
Pyrene (SIM)	31.3	20	µg/L	50.0		62.6	40-140	4.84	20	
Surrogate: Nitrobenzene-d5	69.7		µg/L	100		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	62.6		µg/L	100		62.6	30-130			
Surrogate: p-Terphenyl-d14	48.8		µg/L	100		48.8	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 B248111 - SW-846 3510C
Blank (B248111-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

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							
Total PCB Aroclors	0.0		µg/L							
Surrogate: Decachlorobiphenyl	1.88		µg/L	2.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.77		µg/L	2.00		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.73		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.73		µg/L	2.00		86.4	30-150			

LCS (B248111-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Aroclor-1016	0.44	0.20	µg/L	0.500		87.7	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.4	40-140			
Aroclor-1254	ND	0.20	µg/L				40-140			
Aroclor-1254 [2C]	ND	0.20	µg/L				40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		83.7	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.2	40-140			
Surrogate: Decachlorobiphenyl	1.77		µg/L	2.00		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/L	2.00		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.64		µg/L	2.00		81.9	30-150			

LCS Dup (B248111-BSD1)

Prepared: 12/11/19 Analyzed: 12/12/19

Aroclor-1016	0.42	0.20	µg/L	0.500		83.5	40-140	4.91	20	
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.2	40-140	3.51	20	
Aroclor-1254	ND	0.20	µg/L				40-140	NC	20	
Aroclor-1254 [2C]	ND	0.20	µg/L				40-140	NC	20	
Aroclor-1260	0.40	0.20	µg/L	0.500		79.9	40-140	4.62	20	
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.4	40-140	3.15	20	
Surrogate: Decachlorobiphenyl	1.70		µg/L	2.00		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.72		µg/L	2.00		86.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.51		µg/L	2.00		75.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B248066 - SW-846 3540C

Blank (B248066-BLK1)

Prepared: 12/10/19 Analyzed: 12/12/19

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							
Total PCB Aroclors	0.0		mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		81.9	30-150			

LCS (B248066-BS1)

Prepared: 12/10/19 Analyzed: 12/12/19

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.6	40-140			
Aroclor-1254	ND	0.020	mg/Kg wet				40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		93.6	40-140			
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.4	30-150			

LCS Dup (B248066-BSD1)

Prepared: 12/10/19 Analyzed: 12/12/19

Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.5	40-140	8.62	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140	6.21	30	
Aroclor-1254	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.5	40-140	10.4	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	7.47	30	
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.200		83.8	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 B247989 - SW-846 3546										
Blank (B247989-BLK1)				Prepared & Analyzed: 12/10/19						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.92		mg/Kg wet	3.33		57.7	50-150			
LCS (B247989-BS1)				Prepared & Analyzed: 12/10/19						
CT ETPH	24.6	10	mg/Kg wet	33.3		73.7	60-120			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.33		60.1	50-150			
LCS Dup (B247989-BSD1)				Prepared & Analyzed: 12/10/19						
CT ETPH	26.3	10	mg/Kg wet	33.3		79.0	60-120	6.87	30	
Surrogate: 2-Fluorobiphenyl	2.10		mg/Kg wet	3.33		62.9	50-150			
Batch B248113 - SW-846 3510C										
Blank (B248113-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	0.0573		mg/L	0.100		57.3	50-150			
LCS (B248113-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
CT ETPH	0.721	0.15	mg/L	1.00		72.1	60-120			
Surrogate: 2-Fluorobiphenyl	0.0628		mg/L	0.100		62.8	50-150			
LCS Dup (B248113-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
CT ETPH	0.615	0.15	mg/L	1.00		61.5	60-120	15.8	30	
Surrogate: 2-Fluorobiphenyl	0.0541		mg/L	0.100		54.1	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
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Batch B248059 - SW-846 3050B
Blank (B248059-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							

LCS (B248059-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	146	5.0	mg/Kg wet	143		102	83.2-117.5			
Barium	458	5.0	mg/Kg wet	415		110	82.7-117.6			
Cadmium	59.3	0.50	mg/Kg wet	56.2		106	82.9-117.3			
Chromium	107	1.0	mg/Kg wet	101		106	82.4-116.8			
Lead	136	1.5	mg/Kg wet	125		109	82.4-116.8			
Selenium	77.7	10	mg/Kg wet	77.9		99.7	79.3-120.7			
Silver	43.6	1.0	mg/Kg wet	34.3		127 *	81-119.2			L-07

LCS (B248059-BS2) MRL Check

Prepared: 12/11/19 Analyzed: 12/12/19

Lead	0.526	0.50	mg/Kg wet	0.496		106	80-120			
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LCS Dup (B248059-BSD1)

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	137	4.9	mg/Kg wet	143		96.1	83.2-117.5	6.19	30	
Barium	433	4.9	mg/Kg wet	415		104	82.7-117.6	5.64	20	
Cadmium	55.2	0.49	mg/Kg wet	56.2		98.2	82.9-117.3	7.31	20	
Chromium	100	0.98	mg/Kg wet	101		99.1	82.4-116.8	6.40	30	
Lead	129	1.5	mg/Kg wet	125		103	82.4-116.8	5.37	30	
Selenium	74.6	9.8	mg/Kg wet	77.9		95.7	79.3-120.7	4.06	30	
Silver	40.8	0.98	mg/Kg wet	34.3		119	81-119.2	6.59	30	

Batch B248100 - SW-846 7471
Blank (B248100-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	ND	0.025	mg/Kg wet							
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LCS (B248100-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	6.65	0.39	mg/Kg wet	7.61		87.3	72.7-127.3			
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LCS Dup (B248100-BSD1)

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	7.27	0.38	mg/Kg wet	7.61		95.5	72.7-127.3	8.91	20	
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Batch B248101 - SW-846 7470A Prep
Blank (B248101-BLK1)

Prepared & Analyzed: 12/11/19

Mercury	ND	0.00010	mg/L							
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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 B248101 - SW-846 7470A Prep										
LCS (B248101-BS1)				Prepared & Analyzed: 12/11/19						
Mercury	0.00403	0.00010	mg/L	0.00400		101	80-120			
LCS Dup (B248101-BSD1)				Prepared & Analyzed: 12/11/19						
Mercury	0.00391	0.00010	mg/L	0.00400		97.8	80-120	2.87	20	
Batch B248147 - SW-846 3005A										
Blank (B248147-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	ND	0.80	µg/L							
Barium	ND	10	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
LCS (B248147-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	527	8.0	µg/L	500		105	80-120			
Barium	538	100	µg/L	500		108	80-120			
Cadmium	520	2.0	µg/L	500		104	80-120			
Chromium	528	10	µg/L	500		106	80-120			
Lead	530	5.0	µg/L	500		106	80-120			
Selenium	534	50	µg/L	500		107	80-120			
Silver	520	2.0	µg/L	500		104	80-120			
LCS Dup (B248147-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	482	8.0	µg/L	500		96.3	80-120	8.97	20	
Barium	477	100	µg/L	500		95.5	80-120	12.0	20	
Cadmium	480	2.0	µg/L	500		96.0	80-120	7.97	20	
Chromium	480	10	µg/L	500		95.9	80-120	9.56	20	
Lead	484	5.0	µg/L	500		96.7	80-120	9.22	20	
Selenium	487	50	µg/L	500		97.5	80-120	9.17	20	
Silver	475	2.0	µg/L	500		95.1	80-120	8.97	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
Batch B248063 - SW-846 9045C										
Duplicate (B248063-DUP1)		Source: 19L0326-02		Prepared & Analyzed: 12/10/19						
pH	7.1		pH Units		7.0			1.10	6.96	
Batch B248180 - SM21-22 4500 H B										
LCS (B248180-BS1)		Prepared & Analyzed: 12/12/19								
pH	6.02		pH Units	6.00		100	90-110			
Duplicate (B248180-DUP1)		Source: 19L0326-01		Prepared & Analyzed: 12/12/19						
pH	7.0		pH Units		6.9			0.588	5	H-05
Batch B248220 - SW-846 9014										
Blank (B248220-BLK1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B248220-BS1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Cyanide	8.9	0.40	mg/Kg	10.0		88.9	82.8-113			
Batch B248221 - SW-846 9030A										
Blank (B248221-BLK1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B248221-BS1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Sulfide	14	2.0	mg/Kg	14.8		91.9	57.6-114			
Batch B248222 - SW-846 9014										
Blank (B248222-BLK1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Cyanide	ND	0.40	mg/L							
LCS (B248222-BS1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Cyanide	8.9	0.40	mg/L	10.0		88.9	82.8-113			
Batch B248224 - SW-846 9030A										
Blank (B248224-BLK1)		Prepared: 12/12/19 Analyzed: 12/13/19								
Reactive Sulfide	ND	2.0	mg/L							

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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 B248224 - SW-846 9030A
LCS (B248224-BS1)

Prepared: 12/12/19 Analyzed: 12/13/19

Reactive Sulfide	14	2.0	mg/L	14.8		91.9	57.6-114			
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Batch B248269 - SW-846 1010A
Blank (B248269-BLK1)

Prepared & Analyzed: 12/12/19

Flashpoint	> 212 °F		°F							
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LCS (B248269-BS1)

Prepared & Analyzed: 12/12/19

Flashpoint	81		°F	81.0		99.5	98.8-101			
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LCS Dup (B248269-BSD1)

Prepared & Analyzed: 12/12/19

Flashpoint	81		°F	81.0		99.5	98.8-101	0.00	5	
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QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248239 - SW-846 3010A										
Blank (B248239-BLK1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Arsenic	ND	0.050	mg/L							
Barium	ND	0.50	mg/L							
Cadmium	ND	0.010	mg/L							
Chromium	ND	0.050	mg/L							
Lead	ND	0.10	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.050	mg/L							
LCS (B248239-BS1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Arsenic	0.514	0.050	mg/L	0.500		103	80-120			
Barium	0.504	0.50	mg/L	0.500		101	80-120			
Cadmium	0.526	0.010	mg/L	0.500		105	80-120			
Chromium	0.494	0.050	mg/L	0.500		98.9	80-120			
Lead	0.504	0.10	mg/L	0.500		101	80-120			
Selenium	0.562	0.050	mg/L	0.500		112	80-120			
Silver	0.557	0.050	mg/L	0.500		111	80-120			
LCS Dup (B248239-BSD1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Arsenic	0.513	0.050	mg/L	0.500		103	80-120	0.358	20	
Barium	0.498	0.50	mg/L	0.500		99.7	80-120	1.10	20	
Cadmium	0.519	0.010	mg/L	0.500		104	80-120	1.36	20	
Chromium	0.490	0.050	mg/L	0.500		97.9	80-120	0.952	20	
Lead	0.500	0.10	mg/L	0.500		100	80-120	0.630	20	
Selenium	0.561	0.050	mg/L	0.500		112	80-120	0.0749	20	
Silver	0.548	0.050	mg/L	0.500		110	80-120	1.68	20	
Batch B248247 - SW-846 7470A Prep										
Blank (B248247-BLK1)				Prepared & Analyzed: 12/12/19						
Mercury	ND	0.00010	mg/L							
LCS (B248247-BS1)				Prepared & Analyzed: 12/12/19						
Mercury	0.00392	0.00010	mg/L	0.00400		98.1	80-120			
LCS Dup (B248247-BSD1)				Prepared & Analyzed: 12/12/19						
Mercury	0.00392	0.00010	mg/L	0.00400		97.9	80-120	0.184	20	
Matrix Spike (B248247-MS1)				Source: 19L0326-02 Prepared & Analyzed: 12/12/19						
Mercury	0.00403	0.00010	mg/L	0.00400	0.0000776	98.8	75-125			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

TRC-AOC-12N-SED-01

Lab Sample ID: 19L0326-02 Date(s) Analyzed: 12/12/2019 12/12/2019
Instrument ID (1): ECD1 Instrument ID (2): ECD1
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.38	46.5
Aroclor-1254	1	0.000	-0.030	0.030	0.42	
	2	0.000	-0.030	0.030	0.41	2.4
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3

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

Lab Sample ID: B248066-BS1 Date(s) Analyzed: 12/12/2019 12/12/2019
Instrument ID (1): ECD1 Instrument ID (2): ECD1
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.18	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4

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

Lab Sample ID: B248066-BSD1 Date(s) Analyzed: 12/12/2019 12/12/2019
Instrument ID (1): ECD1 Instrument ID (2): ECD1
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B248111-BS1 Date(s) Analyzed: 12/12/2019 12/12/2019

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.47	6.6
Aroclor-1260	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.45	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B248111-BSD1 Date(s) Analyzed: 12/12/2019 12/12/2019

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.45	6.9
Aroclor-1260	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.43	7.2

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 is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
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 verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) 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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 6020B in Water	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA

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,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
<i>SW-846 8260C-D 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
<i>SW-846 8260C-D in Soil</i>	
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
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
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-D in Soil</i>	
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NY
<i>SW-846 8260C-D 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
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Water</i>	
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
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
Xylenes (total)	CT,NY
<i>SW-846 8270D-E 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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
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-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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
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-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

SW-846 9095B in Soil

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



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 TRC
Received By UDPA Date 12/10/19 Time 1255
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 # 5 Actual Temp - 5.4
By Blank # _____ Actual Temp - _____
Was Custody Seal Intact? NIA Were Samples Tampered with? NIA
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 _____ Analysis T Sampler Name F
pertinent Information? Project _____ ID's _____ Collection Dates/Times F
Are Sample labels filled out and legible? T
Are there Lab to Filters? F
Are there Rushes? F
Are there Short Holds? F
Is there enough Volume? T
Is there Headspace where applicable? F
Proper Media/Containers Used? T
Were trip blanks received? F
Do all samples have the proper pH? X UDPA 12/10/19 Acid pH 2 Base _____
Who was notified? _____
Who was notified? Ashly
Who was notified? Katie
MS/MSD? F
Is splitting samples required? F
On COC? F

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.	<u>6</u>	1 Liter Plastic		16 oz Amb.
HCL-	<u>5</u>	500 mL Amb.		500 mL Plastic	<u>1</u>	8oz Amb/Clear
Meoh-	<u>1</u>	250 mL Amb.	<u>1</u>	250 mL Plastic	<u>1</u>	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		<u>12/10/19 1255</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:

C:\MSDCHEM\4\DATA\D121219\D1212006.D

CT ETPH DISCRIMINATION CHECK

Data File Name D1212006.D
 Data File Path C:\MSDCHEM\4\DATA\D121219\
 Operator RMW
 Date Acquired 12/12/2019 11:42
 Acq. Method File EPH11D.M
 Sample Name ETPH 1500
 Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.65	7309560	8351852	12
C-10	2.29	7522656	8351852	10
C-12	3.22	7798783	8351852	7
C-14	3.94	8072841	8351852	3
C-16	4.55	8258709	8351852	1
C-18	5.10	8439216	8351852	-1
C-20	5.72	8594279	8351852	-3
C-22	6.48	8727702	8351852	-5
C-24	7.32	8833485	8351852	-6
C-26	8.13	8855722	8351852	-6
C-28	8.87	8841538	8351852	-6
C-30	9.55	8814964	8351852	-6
C-32	10.18	8529458	8351852	-2
C-34	10.78	8471195	8351852	-1
C-36	11.37	8207666	8351852	2

Samples

19L0326-01

*One compound allowed %D<=50%

C:\MSDCHEM\4\DATA\D121219.SEC\D1212091.D

CT ETPH DISCRIMINATION CHECK

Data File Name D1212091.D
 Data File Path C:\MSDCHEM\4\DATA\D121219.SEC\
 Operator RMW
 Date Acquired 12/13/2019 2:11
 Acq. Method File EPH11D.M
 Sample Name ETPH 1500
 Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.70	8901455	10130129	12
C-10	2.32	9241255	10130129	9
C-12	3.23	9624546	10130129	5
C-14	3.94	9966725	10130129	2
C-16	4.55	10202293	10130129	-1
C-18	5.09	10391591	10130129	-3
C-20	5.70	10521661	10130129	-4
C-22	6.45	10564131	10130129	-4
C-24	7.29	10599500	10130129	-5
C-26	8.09	10511102	10130129	-4
C-28	8.82	10462276	10130129	-3
C-30	9.50	10440481	10130129	-3
C-32	10.14	10206275	10130129	-1
C-34	10.73	10252465	10130129	-1
C-36	11.31	10066175	10130129	1

Samples

19L0326-02@100X

*One compound allowed %D</=50%



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 19L0326

Laboratory Sample ID(s):

19L0326-01 thru 19L0326-02

Sample Date(s):

12/10/2019

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010D, SW-846 6020B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

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.

Tod E. Kopyscinski

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: 12/13/19
Name of Laboratory: Con-Test Analytical Laboratory

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

Situation #2 Filled Raised Platform Area

MEMORANDUM

To: Mr. Gary Trombly, Jr, CT DEEP
Ms. Lori Saliby, CT DEEP

From: Mr. Shawn Crosbie, UI
Ms. Marya Mahoney, LEP, TRC
Mr. Carl Stopper, PE, TRC

Subject: **English Station – Station B Situation #2 Resolution**
Filled Raised Platform Sampling, Removal & Disposal
TRC Project No.: 263951

Date: February 5, 2020

Introduction

This memo has been prepared at the request of the Connecticut Department of Energy and Environmental Protection (CTDEEP) to summarize the results of the sampling, removal and disposal of the fill material that sat beneath a portion of the raised platform behind the southeast portion of the former Station B building on Parcel A located at 510A Grand Avenue, New Haven, Connecticut. The southeast corner of Station B formerly had a raised platform area that served as the access to the rear of Station B into the upper office area of the building at the east end. The surface of the platform was raised approximately 8' to 10' above the grade at the rear of the building. Beneath a portion of the raised platform and immediately adjacent to the Situation #1 Wastewater Sump Chamber there was an asphalt paved surface underlain by sand and a sand/rubble mixture. The filled area had dimensions that measured approximately 15ft. by 15ft. by 9 ft. deep. Due to the elevation of the platform the filled area sat above the surrounding grade and was enclosed by the platform structure on all four sides.

Sampling

Following removal of the Situation # 1 Wastewater Sump Chamber on December 31, 2019 the asphalt layer on the filled area surface was removed by ACV Environmental (ACV) and the underlying sand layer exposed. The sand layer was approximately one foot thick. Below the sand layer was a mixture of rubble, building materials and sand. On January 2, 2020 UI notified Lori Saliby of CTDEEP to report the discovery of the fill material and get direction on sampling of the fill material. On January 2, 2020 UI sent CT DEEP an email which three areas within the material to be sampled, (1) surface, (2) ~5 feet below top of platform and (3) bottom but no deeper than 9 feet below grade. , On January 3, 2020, with the assistance of ACV, TRC collected three separate samples of the sand and rubble. The uppermost sample TRC-AOC-12-SO-01(0-0.5) was collected from the 0' to the 0.5' interval and consisted of the light brown sand that was directly beneath the asphalt surface layer. ACV then excavated to approximately 5 feet below the surface and TRC collected sample TRC-AOC-12-SO-02(5) from a bucket of the grey sand/rubble mixture at that depth. The deepest sample TRC-AOC-12-SO-03(9) was collected from the grey

sand/rubble mixture in excavator bucket at approximately 9 feet below the surface. The samples were sent to Con-Test Laboratory for analysis. Copy of lab report *20A0108 Contest Final 01-08-2020* attached. All three samples were analyzed by the following methods with detection limits below regulatory criteria for waste management:

- Volatile Organic Compounds (VOCs) – EPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) – EPA Method 8270
- RCRA 8 Metals – EPA Method 6020 & 7470
- Polychlorinated Bi-Phenyls (PCBs) – EPA Method 8082 with Soxhlet Extraction
- Extractable Total Petroleum Hydrocarbons (ETPH) – CTDEEP Method
- Reactive Cyanide – EPA Method 9014
- Reactive Sulfide – EPA Method 9030
- pH – EPA Method 9045
- Ignitability – EPA Method 1030
- Paint Filter Test (Free Liquid Test) – EPA Method 9095B
- % Solids – SM 2540G
- TCLP 8 RCRA Metals – EPA Method 6010 & 7470

TRC-AOC-12-SO-01(0-0.5) – Light brown SAND at 0ft. to 0.5ft.

PCBs were not detected (<0.080mg/kg) and is therefore not USEPA or CTDEEP regulated for PCBs. ETPH was non-detect at <10mg/kg. The VOC and SVOC results were non-detect for all compounds. Of the Total RCRA 8 metals, barium, chromium and lead were detected. All of the RCRA 8 TCLP metals were non-detect. All or the other RCRA hazardous waste tests involving reactivity, ignitability, flashpoint and pH were below the RCRA hazardous waste thresholds. The results of the testing for TRC-AOC-12-SO-01(0-0.5) is that it was managed as a state regulated waste.

TRC-AOC-12-SO-02(5) – Grey SAND and RUBBLE mixture at 5ft.

PCBs were detected at 0.11mg/kg and is therefore not USEPA or CTDEEP regulated for PCBs. ETPH was detected at 1,700mg/kg. The VOC results were non-detect for all compounds. A total of 30 SVOC compounds were detected. Of the Total RCRA 8 metals analysis, only selenium and silver were non-detect. The TCLP analysis for Barium exhibited 0.63mg/L and for lead 0.16mg/L, which are below the RCRA Hazardous Waste thresholds. All other RCRA 8 TCLP metals analyzed were non-detect. All or the other RCRA hazardous waste tests involving reactivity, ignitability, flashpoint and pH were below the RCRA hazardous waste thresholds. The results of the testing for TRC-AOC-12-SO-02(5) is that it was managed as a state regulated waste.

TRC-AOC-12-SO-03(9) – Grey SAND and RUBBLE mixture at 9ft.

PCBs were not detected (<0.086mg/kg) and is therefore not USEPA or CTDEEP regulated for PCBs. ETPH was detected at 1,300mg/kg. The VOC results were non-detect for all compounds. A total of 30 SVOC compounds were detected. Of the Total RCRA 8 metals analysis, only selenium and silver were non-detect. The TCLP analysis for Barium exhibited 0.88mg/L and for lead 0.75mg/L, which are below the RCRA Hazardous Waste thresholds. All other RCRA 8 TCLP metals analyzed were non-detect. All or the other RCRA hazardous waste tests involving reactivity, ignitability, flashpoint and pH were below the RCRA hazardous waste thresholds. The results of the testing for TRC-AOC-12-SO-03(9) is that it was managed as a state regulated waste.

Removal and Disposal

Because of ACV Enviro's (ACV) onsite presence as the remediation contractor performing demolition and soil remediation on the site on behalf of UI, ACV was used to assist in the management and disposal of this waste. Based upon previous testing performed by TRC identifying a pointing material containing asbestos (ACM) on the brick walls of this area and the testing performed under Situation #2, the combined walls and fill were demo/excavated out into two poly-lined trailers, and transported offsite for disposal as PCB Excluded Waste w/ ACM using Non-Hazardous Waste Manifests. That waste was shipped to the Minerva Enterprises, LLC Landfill in Waynesburg, Ohio along with other building demolition debris. Copies of the two Non-Hazardous Waste manifests are included as an attachment to this memo. The area beneath the fill platform has a concrete slab on grade with a filled circular opening in the center. The opening is filled with the same grey sand/rubble mixture that was inside the platform. This area will eventually be covered with four feet of clean suitable fill to render the underlying fill inaccessible in accordance with the Non-PCB Remedial Action Plan.

Photographs

Attached to this memorandum are a series of photographs that document the location of the concrete sump chamber, sludge removal and demolition of the structure.

Attachments:

Figure 1 – Site Plan

Photographs

Non-Hazardous Waste Manifests

Laboratory Report - 20A0108 Contest Final 01-08-2020

FIGURE 1

ENGLISH STATION - 510A Grand Ave.

FIGURE No. 1

Situation #2 - Filled Platform Area

at Station B

Date: 01/31/2020

Scale: 1"=40'

North



GRAND AVENUE

C.B. III

SIDEWALK

EAST ENTRANCE

STATION B

RAISED WALKWAY

OPEN BELOW

RAISED PLATFORM

SITUATION #1
WASTE WATER SUMP
CHAMBER BELOW
PLATFORM

SITUATION #2
FILLED PLATFORM
AREA

PARCEL "A"
146,711 S.F. 3.37
ACRES

BULKHEAD

MILL RIVER



MILL RIVER

BULKHEAD

GATE

GATE

WEST ENTRANCE

GATE

PHOTOGRAPHS

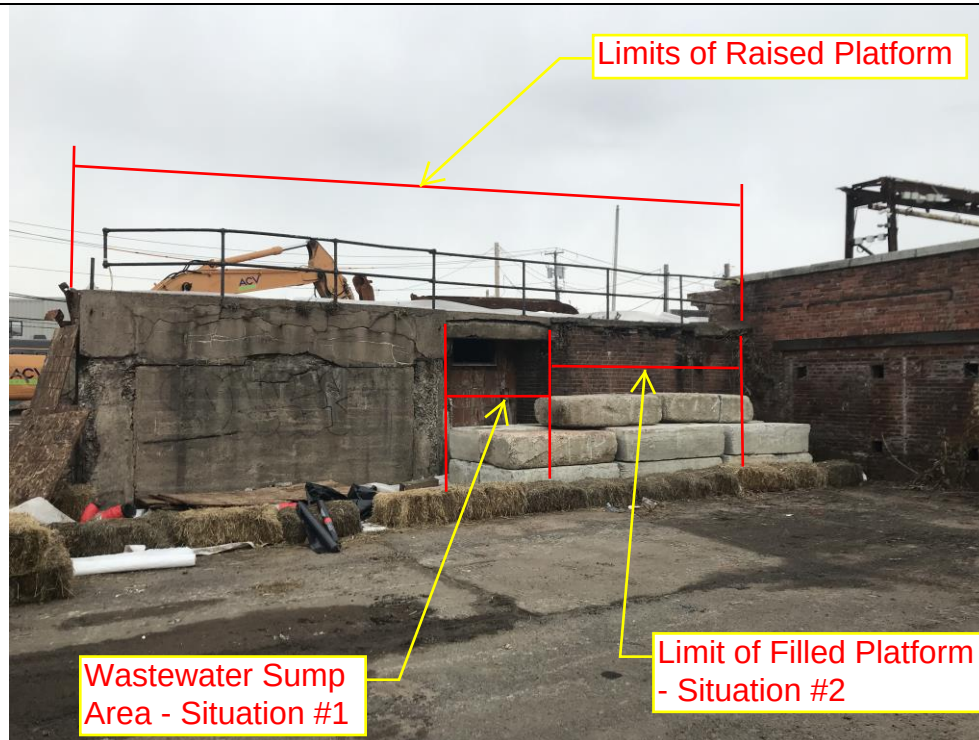


Photo 1: South Side of Elevated Platform at Southeast corner of Station B looking North.



Photo 2: Top of platform with broken asphalt and light brown sand layer prior to sampling.



Photo 3: Filled Platform area on right side after removal of the wastewater sump.



Photo 4: Test pit excavation and sampling at 5-foot depth.



Photo 5: Test pit excavation and sampling at 9-foot depth.



Photo 6: South side of filled platform wall prior to material load out.



Photo 7: Top view of filled platform prior to material load out.



Photo 8: Filled platform area after material loadout and prior to brick support wall demolition.



Photo 9: Filled platform area after surface cleaning. Note concrete slab on-grade with circular sand/rubble filled opening in the center. This area will be covered with the 4-foot thick suitable soil fill barrier layer.

NON-HAZARDOUS WASTE MANIFESTS

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CTW000517375	2. Page 1 of 1	3. Emergency Response Phone 203-915-2573	4. Waste Tracking Number #001018297RED	
	5. Generator's Name and Mailing Address Shawn Crosbie United Illuminating Company 180 Marsh Hill Road AD-1A Orange, CT 06477			Generator's Site Address (if different than mailing address) United Illuminating Company 510A Grand Avenue Parcel A, Station B New Haven, CT 06511			
	6. Transporter 1 Company Name Shaw			U.S. EPA ID Number N/A			
	7. Transporter 2 Company Name			U.S. EPA ID Number			
	8. Designated Facility Name and Site Address Minerva Enterprises, LLC 9000 Minerva Road Waynesburg, OH 44688			U.S. EPA ID Number			
	Facility's Phone: 330-866-3435						
	9. Waste Shipping Name and Description 1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)			10. Containers No. Type 1 DT		11. Total Quantity 20000	12. Unit WL/Vol. K
	2.						
	3.						
	4.						
TRANSPORTER	13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated						
	1) Profile #15060619E ASBESTOS, EXCLUDED WASTE PCB >1 <50 PPM DOT ERG#171						
	TR#8 Lis#(PA)AG69129 Trailer# T-42 Lis#(PA)PT058J2						
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
	Generator's/Offor's Printed/Typed Name Matt Blumstein (TRC) As an agent of UI			Signature <i>[Signature]</i>		Month Day Year 1 20 20	
	15. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: Date leaving U.S.:			
	Transporter Signature (for exports only):						
	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Brian Weaver			Signature <i>[Signature]</i>		Month Day Year 1 20 20	
	Transporter 2 Printed/Typed Name			Signature		Month Day Year	
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	17b. Alternate Facility (or Generator)			Manifest Reference Number: U.S. EPA ID Number			
	Facility's Phone:						
	17c. Signature of Alternate Facility (or Generator)			Month Day Year			
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
	Printed/Typed Name			Signature		Month Day Year	

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CTW000517375	2. Page 1 of 1	3. Emergency Response Phone 203-915-2573	4. Waste Tracking Number #001018298RED	
	5. Generator's Name and Mailing Address Shawn Crosbie United Illuminating Company 180 Marsh Hill Road AD-1A Orange, CT 06477 Generator's Phone: 203-928-4595			Generator's Site Address (if different than mailing address) United Illuminating Company 510A Grand Avenue Parcel A, Station B New Haven, CT 06511			
	6. Transporter 1 Company Name Shaw			U.S. EPA ID Number N/A			
	7. Transporter 2 Company Name			U.S. EPA ID Number			
	8. Designated Facility Name and Site Address Minerva Enterprises, LLC 9000 Minerva Road Waynesburg, OH 44688 Facility's Phone: 330-866-3435			U.S. EPA ID Number			
	9. Waste Shipping Name and Description 1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)		10. Containers No. Type 1 DT		11. Total Quantity 20000	12. Unit Wt./Vol. K	
	2.						
	3.						
	4.						
	13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated 1) Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171 TR#13 Lis#(PA)AG56285 Trailer# T-13 Lis#(PA)XJF1998						
INTL	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
	Generator's/Officer's Printed/Typed Name Matt Blomsten (TRC) As an agent of UI Signature Matt Blomsten Month Day Year 1 20 20						
	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
	16. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Chris Francis KO			Signature Chris Francis Month Day Year 1 20 20			
	Transporter 2 Printed/Typed Name			Signature Month Day Year			
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
	Facility's Phone: 17c. Signature of Alternate Facility (or Generator) Month Day Year						
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signature Month Day Year						

LABORATORY REPORT

January 8, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0108

Enclosed are results of analyses for samples received by the laboratory on January 3, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/8/2020

PURCHASE ORDER NUMBER: 147856

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0108

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
TRC-AOC-12N-SO-01 (0-0.5)	20A0108-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	
TRC-AOC-12N-SO-02 (5)	20A0108-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	
TRC-AOC-12N-SO-03 (9)	20A0108-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

CASE NARRATIVE SUMMARY

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

For method 6010, only RCRA 8 metals were requested and reported.

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

CTDEP ETPH**Qualifications:****MS-07A**

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

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

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

20A0108-03[TRC-AOC-12N-SO-03 (9)], B249428-MS1, B249428-MSD1

S-01

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

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

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

SW-846 7471B**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:**Mercury**

B249447-BSD1

SW-846 8082A**Qualifications:****S-24**

Surrogate recovery is biased high due to the presence of Aroclor 1268 in the sample. Aroclor 1268 contains decachlorobiphenyl.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl [2C]**

20A0108-02[TRC-AOC-12N-SO-02 (5)]

SW-846 8260C-D**Qualifications:****V-05**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249438-BLK1, B249438-BS1, S044384-CCV1

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**

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249438-BLK1, B249438-BS1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249438-BLK1, B249438-BS1, S044384-CCV1

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

E

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

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

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(a)anthracene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(a)pyrene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(b)fluoranthene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(g,h,i)perylene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(k)fluoranthene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Chrysene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Fluoranthene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Indeno(1,2,3-cd)pyrene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Phenanthrene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Pyrene

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Bis(2-chloroisopropyl)ether**

B249431-BS1, B249431-BSD1, S044428-CCV1

V-20

Continuing calibration verification (CCV) 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:**Bis(2-chloroisopropyl)ether**

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249431-BLK1

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
Technical Representative

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

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)

Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

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	0.10	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chloromethane	ND	0.010	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF

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Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

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	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Xylenes (total)	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	90.1	70-130						1/6/20 6:43	
Toluene-d8	99.0	70-130						1/6/20 6:43	
4-Bromofluorobenzene	102	70-130						1/6/20 6:43	

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Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Chloro-3-methylphenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB

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Sample ID: 20A0108-01

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	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	84.0	30-130							
Phenol-d6	88.3	30-130							
Nitrobenzene-d5	82.0	30-130							
2-Fluorobiphenyl	113	30-130							
2,4,6-Tribromophenol	96.7	30-130							
p-Terphenyl-d14	98.1	30-130							

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Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)

Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

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	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1221 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1232 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1242 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1248 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1254 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1260 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1262 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1268 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Total PCB Aroclors [1]	0.0		mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.1	30-150						1/7/20 14:22	
Decachlorobiphenyl [2]	92.8	30-150						1/7/20 14:22	
Tetrachloro-m-xylene [1]	88.3	30-150						1/7/20 14:22	
Tetrachloro-m-xylene [2]	90.5	30-150						1/7/20 14:22	

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)

Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	1/5/20	1/6/20 23:40	RDD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorobiphenyl	73.2	50-150						1/6/20 23:40	

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

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Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)

Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Barium	24	1.7	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Chromium	4.7	0.34	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Lead	3.7	0.52	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/6/20	1/7/20 11:18	CJV
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)

Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	1/4/20	1/5/20 9:04	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/7/20	1/7/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/7/20	1/7/20 12:30	DJM
pH @22.9°C	8.9		pH Units	1		SW-846 9045C	1/3/20	1/3/20 19:25	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/6/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/6/20	1/8/20 11:30	DJM

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)

Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/7/20	1/8/20 10:22	CJV
Barium	ND	0.56	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Cadmium	ND	0.011	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Chromium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Lead	ND	0.11	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Selenium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Silver	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

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	0.14	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Acrylonitrile	ND	0.0085	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromoform	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromomethane	ND	0.014	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2-Butanone (MEK)	ND	0.056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Carbon Disulfide	ND	0.0085	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chloroform	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chloromethane	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1-Dichloroethylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
cis-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

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	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Methylene Chloride	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Naphthalene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,2-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Trichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
m+p Xylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Xylenes (total)	ND	0.0085	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	92.5	70-130						1/6/20 7:10	
Toluene-d8	98.4	70-130						1/6/20 7:10	
4-Bromofluorobenzene	100	70-130						1/6/20 7:10	

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.6	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Acenaphthylene	0.71	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Anthracene	5.7	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Anthracene	4.6	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(a)anthracene	15	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(a)anthracene	15	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(a)pyrene	14	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(a)pyrene	12	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(b)fluoranthene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(b)fluoranthene	14	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(g,h,i)perylene	7.9	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(g,h,i)perylene	5.9	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(k)fluoranthene	6.2	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(k)fluoranthene	5.4	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Carbazole	2.2	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Chrysene	15	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Chrysene	14	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Dibenz(a,h)anthracene	2.2	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Dibenzofuran	1.4	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Fluoranthene	37	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Fluoranthene	32	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	1.7	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Indeno(1,2,3-cd)pyrene	10	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Indeno(1,2,3-cd)pyrene	8.1	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Methylnaphthalene	0.83	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Naphthalene	1.1	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Phenanthrene	28	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Phenanthrene	25	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pyrene	27	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pyrene	31	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	64.7	30-130	
2-Fluorophenol	55.4	30-130	
Phenol-d6	67.6	30-130	
Phenol-d6	57.7	30-130	
Nitrobenzene-d5	64.3	30-130	
Nitrobenzene-d5	57.8	30-130	
2-Fluorobiphenyl	83.9	30-130	
2-Fluorobiphenyl	72.8	30-130	
2,4,6-Tribromophenol	67.0	30-130	
2,4,6-Tribromophenol	51.9	30-130	
p-Terphenyl-d14	60.9	30-130	
p-Terphenyl-d14	73.8	30-130	

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1268 [2]	0.11	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Total PCB Aroclors [1]	0.11		mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	79.1		30-150				1/7/20 14:35		
Decachlorobiphenyl [2]	161 *		30-150		S-24		1/7/20 14:35		
Tetrachloro-m-xylene [1]	77.8		30-150				1/7/20 14:35		
Tetrachloro-m-xylene [2]	76.9		30-150				1/7/20 14:35		

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1700	220	mg/Kg dry	20		CTDEP ETPH	1/5/20	1/7/20 2:02	RDD
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	*		50-150		S-01			1/7/20 2:02	

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	22	1.8	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Barium	210	1.8	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Cadmium	2.7	0.18	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Chromium	8.3	0.37	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Lead	510	0.55	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Mercury	0.12	0.029	mg/Kg dry	1		SW-846 7471B	1/6/20	1/7/20 11:20	CJV
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

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	88.7		% Wt	1		SM 2540G	1/4/20	1/5/20 9:04	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/7/20	1/7/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/7/20	1/7/20 12:30	DJM
pH @22.6°C	9.1		pH Units	1		SW-846 9045C	1/3/20	1/3/20 19:25	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/6/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/6/20	1/8/20 11:30	DJM

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)

Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/7/20	1/8/20 10:24	CJV
Barium	0.63	0.56	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Cadmium	ND	0.011	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Chromium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Lead	0.16	0.11	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Selenium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Silver	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

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	0.13	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Acrylonitrile	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromoform	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromomethane	ND	0.013	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2-Butanone (MEK)	ND	0.054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Carbon Disulfide	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chloroform	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chloromethane	ND	0.013	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1-Dichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

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	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Methylene Chloride	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Naphthalene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1	V-16	SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
m+p Xylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Xylenes (total)	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.7	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	100	70-130	

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

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.5	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Acenaphthylene	0.73	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Anthracene	7.6	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Anthracene	5.4	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(a)anthracene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(a)anthracene	16	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(a)pyrene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(a)pyrene	13	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(b)fluoranthene	24	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(b)fluoranthene	16	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(g,h,i)perylene	9.2	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(g,h,i)perylene	6.4	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(k)fluoranthene	7.0	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(k)fluoranthene	6.5	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Carbazole	3.4	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Chrysene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Chrysene	15	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Dibenz(a,h)anthracene	2.7	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Dibenzofuran	2.2	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Fluoranthene	42	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Fluoranthene	38	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	2.6	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Indeno(1,2,3-cd)pyrene	12	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Indeno(1,2,3-cd)pyrene	8.3	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Methylnaphthalene	1.5	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Naphthalene	1.9	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Phenanthrene	34	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Phenanthrene	35	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pyrene	34	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pyrene	33	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	68.8	30-130	
2-Fluorophenol	55.2	30-130	
Phenol-d6	74.3	30-130	
Phenol-d6	58.8	30-130	
Nitrobenzene-d5	67.0	30-130	
Nitrobenzene-d5	53.6	30-130	
2-Fluorobiphenyl	90.6	30-130	
2-Fluorobiphenyl	72.8	30-130	
2,4,6-Tribromophenol	71.6	30-130	
2,4,6-Tribromophenol	49.0	30-130	
p-Terphenyl-d14	74.1	30-130	
p-Terphenyl-d14	65.5	30-130	

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

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	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Total PCB Aroclors [1]	0.0		mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.1	30-150						1/7/20 14:47	
Decachlorobiphenyl [2]	149	30-150						1/7/20 14:47	
Tetrachloro-m-xylene [1]	79.8	30-150						1/7/20 14:47	
Tetrachloro-m-xylene [2]	78.8	30-150						1/7/20 14:47	

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Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	560	mg/Kg dry	50	MS-07A	CTDEP ETPH	1/5/20	1/7/20 8:49	RDD
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	*		50-150		S-01			1/7/20 8:49	

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Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	16	1.9	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Barium	240	1.9	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Cadmium	2.2	0.19	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Chromium	12	0.38	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Lead	1700	0.56	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Mercury	0.13	0.028	mg/Kg dry	1		SW-846 7471B	1/6/20	1/7/20 11:22	CJV
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

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	88.2		% Wt	1		SM 2540G	1/4/20	1/5/20 9:04	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/7/20	1/7/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/7/20	1/7/20 12:30	DJM
pH @22.7°C	9.7		pH Units	1		SW-846 9045C	1/3/20	1/3/20 19:25	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/6/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/6/20	1/8/20 11:30	DJM

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

Sample Description:

Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)

Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/7/20	1/8/20 10:25	CJV
Barium	0.88	0.56	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Cadmium	ND	0.011	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Chromium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Lead	0.75	0.11	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Selenium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Silver	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH

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
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249428	30.4	1.00	01/05/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249428	30.5	1.00	01/05/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249428	30.2	1.00	01/05/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249422	01/04/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249422	01/04/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249422	01/04/20

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249550	50.0	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249550	50.0	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249550	50.0	01/07/20

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249480	1.53	50.0	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249480	1.54	50.0	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249480	1.51	50.0	01/06/20

Prep Method: SW-846 3015A-SW-846 6010D

Leachates were extracted on 1/6/2020 per SW-846 1311 in Batch B249468

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249542	45.0	50.0	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249542	45.0	50.0	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249542	45.0	50.0	01/07/20

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

Leachates were extracted on 1/6/2020 per SW-846 1311 in Batch B249468

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249541	6.00	6.00	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249541	6.00	6.00	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249541	6.00	6.00	01/07/20

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249447	0.596	50.0	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249447	0.581	50.0	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249447	0.607	50.0	01/06/20

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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
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249421	10.5	10.0	01/04/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249421	10.1	10.0	01/04/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249421	10.5	10.0	01/04/20

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249438	5.09	10.0	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249438	3.99	10.0	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249438	4.21	10.0	01/06/20

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249431	30.0	1.00	01/05/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249431	30.1	1.00	01/05/20
20A0108-02RE1 [TRC-AOC-12N-SO-02 (5)]	B249431	30.1	1.00	01/05/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249431	30.2	1.00	01/05/20
20A0108-03RE1 [TRC-AOC-12N-SO-03 (9)]	B249431	30.2	1.00	01/05/20

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249451	25.3	250	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249451	25.1	250	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249451	25.2	250	01/06/20

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249453	25.3	250	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249453	25.1	250	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249453	25.2	250	01/06/20

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249410	20.0	01/03/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249410	20.0	01/03/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249410	20.0	01/03/20

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249508	100	100	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249508	100	100	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249508	100	100	01/07/20

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Sample Extraction Data

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B249438 - SW-846 5035
Blank (B249438-BLK1)

Prepared & Analyzed: 01/06/20

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							V-34
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							V-05
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
Batch B249438 - SW-846 5035										
Blank (B249438-BLK1)				Prepared & Analyzed: 01/06/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							V-16
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							
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							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0447		mg/Kg wet	0.0500		89.4	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/Kg wet	0.0500		98.5	70-130			
LCS (B249438-BS1)				Prepared & Analyzed: 01/06/20						
Acetone	0.166	0.10	mg/Kg wet	0.200		83.2	40-160			V-34
Acrylonitrile	0.0178	0.0060	mg/Kg wet	0.0200		89.2	70-130			
Benzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
Bromoform	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130			
Bromomethane	0.0166	0.010	mg/Kg wet	0.0200		82.8	40-160			
2-Butanone (MEK)	0.182	0.040	mg/Kg wet	0.200		91.1	40-160			
n-Butylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Carbon Disulfide	0.187	0.0060	mg/Kg wet	0.200		93.3	70-130			
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorodibromomethane	0.0211	0.0010	mg/Kg wet	0.0200		106	40-160			
Chloroethane	0.0182	0.020	mg/Kg wet	0.0200		91.2	70-130			V-05
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.3	70-130			
Chloromethane	0.0167	0.010	mg/Kg wet	0.0200		83.4	40-160			
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
4-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,2-Dibromoethane (EDB)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
trans-1,4-Dichloro-2-butene	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.0206	0.020	mg/Kg wet	0.0200		103	40-160			
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
1,2-Dichloroethane	0.0199	0.0020	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
Batch B249438 - SW-846 5035										
LCS (B249438-BS1)				Prepared & Analyzed: 01/06/20						
1,1-Dichloroethylene	0.0173	0.0040	mg/Kg wet	0.0200		86.3	70-130			
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
trans-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
1,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
1,1-Dichloropropene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Hexachlorobutadiene	0.0204	0.0020	mg/Kg wet	0.0200		102	40-160			
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.6	70-130			
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
p-Isopropyltoluene (p-Cymene)	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.6	70-130			
Methylene Chloride	0.0183	0.020	mg/Kg wet	0.0200		91.6	70-130			
4-Methyl-2-pentanone (MIBK)	0.181	0.020	mg/Kg wet	0.200		90.7	40-160			
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.7	70-130			
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Styrene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1,2-Tetrachloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.6	70-130			V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,2,3-Trichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,1,1-Trichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0185	0.010	mg/Kg wet	0.0200		92.4	40-160			
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0194	0.010	mg/Kg wet	0.0200		97.1	70-130			
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,3,5-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Vinyl Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.6	70-130			
m+p Xylene	0.0382	0.0040	mg/Kg wet	0.0400		95.4	70-130			
o-Xylene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Xylenes (total)	0.0578	0.0060	mg/Kg wet	0.0600		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0438		mg/Kg wet	0.0500		87.5	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	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 B249431 - SW-846 3546										
Blank (B249431-BLK1)				Prepared: 01/05/20 Analyzed: 01/06/20						
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							V-20
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							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249431 - SW-846 3546										
Blank (B249431-BLK1)										
Prepared: 01/05/20 Analyzed: 01/06/20										
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
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	6.00		mg/Kg wet	6.67		90.0	30-130			
Surrogate: Phenol-d6	6.21		mg/Kg wet	6.67		93.1	30-130			
Surrogate: Nitrobenzene-d5	2.85		mg/Kg wet	3.33		85.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.84		mg/Kg wet	3.33		115	30-130			
Surrogate: 2,4,6-Tribromophenol	6.96		mg/Kg wet	6.67		104	30-130			
Surrogate: p-Terphenyl-d14	3.64		mg/Kg wet	3.33		109	30-130			
LCS (B249431-BS1)										
Prepared: 01/05/20 Analyzed: 01/06/20										
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140			
Acenaphthylene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140			
Aniline	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			†
Anthracene	1.56	0.17	mg/Kg wet	1.67		93.8	40-140			
Benzo(a)anthracene	1.53	0.17	mg/Kg wet	1.67		91.8	40-140			
Benzo(a)pyrene	1.52	0.17	mg/Kg wet	1.67		91.3	40-140			
Benzo(b)fluoranthene	1.54	0.17	mg/Kg wet	1.67		92.6	40-140			
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(k)fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Bis(2-chloroethoxy)methane	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
Bis(2-chloroethyl)ether	1.23	0.34	mg/Kg wet	1.67		73.6	40-140			
Bis(2-chloroisopropyl)ether	1.79	0.34	mg/Kg wet	1.67		108	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140			
4-Bromophenylphenylether	1.57	0.34	mg/Kg wet	1.67		94.5	40-140			
Butylbenzylphthalate	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
Carbazole	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
4-Chloroaniline	1.01	0.66	mg/Kg wet	1.67		60.8	40-140			†
4-Chloro-3-methylphenol	1.59	0.66	mg/Kg wet	1.67		95.5	30-130			
2-Chloronaphthalene	1.26	0.34	mg/Kg wet	1.67		75.9	40-140			
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130			
4-Chlorophenylphenylether	1.57	0.34	mg/Kg wet	1.67		94.2	40-140			
Chrysene	1.52	0.17	mg/Kg wet	1.67		91.2	40-140			
Dibenz(a,h)anthracene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Dibenzofuran	1.59	0.34	mg/Kg wet	1.67		95.3	40-140			
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		92.9	40-140			
3,3-Dichlorobenzidine	1.52	0.17	mg/Kg wet	1.67		91.0	40-140			†
2,4-Dichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.5	30-130			
Diethylphthalate	1.57	0.34	mg/Kg wet	1.67		94.4	40-140			
2,4-Dimethylphenol	1.37	0.34	mg/Kg wet	1.67		82.3	30-130			
Dimethylphthalate	1.56	0.34	mg/Kg wet	1.67		93.5	40-140			
4,6-Dinitro-2-methylphenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B249431 - SW-846 3546

LCS (B249431-BS1)

Prepared: 01/05/20 Analyzed: 01/06/20

2,4-Dinitrophenol	0.895	0.66	mg/Kg wet	1.67		53.7	30-130			
2,4-Dinitrotoluene	1.48	0.34	mg/Kg wet	1.67		89.1	40-140			
2,6-Dinitrotoluene	1.55	0.34	mg/Kg wet	1.67		93.1	40-140			
Di-n-octylphthalate	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
Fluoranthene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140			
Fluorene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140			
Hexachlorobenzene	1.62	0.34	mg/Kg wet	1.67		97.0	40-140			
Hexachlorobutadiene	1.40	0.34	mg/Kg wet	1.67		84.0	40-140			
Hexachlorocyclopentadiene	0.951	0.34	mg/Kg wet	1.67		57.1	30-140			
Hexachloroethane	1.10	0.34	mg/Kg wet	1.67		66.1	40-140			
Indeno(1,2,3-cd)pyrene	1.42	0.17	mg/Kg wet	1.67		85.2	40-140			
Isophorone	1.46	0.34	mg/Kg wet	1.67		87.6	40-140			
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		95.7	40-140			
2-Methylphenol	1.30	0.34	mg/Kg wet	1.67		78.1	30-130			
3/4-Methylphenol	1.38	0.34	mg/Kg wet	1.67		83.0	30-130			
Naphthalene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
2-Nitroaniline	1.72	0.34	mg/Kg wet	1.67		103	40-140			
3-Nitroaniline	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			†
4-Nitroaniline	1.49	0.34	mg/Kg wet	1.67		89.5	40-140			
Nitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		80.9	30-130			
4-Nitrophenol	1.91	0.66	mg/Kg wet	1.67		115	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.62	0.34	mg/Kg wet	1.67		96.9	40-140			
N-Nitrosodi-n-propylamine	1.39	0.34	mg/Kg wet	1.67		83.7	40-140			
Pentachloronitrobenzene	1.61	0.34	mg/Kg wet	1.67		96.3	40-140			
Pentachlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130			
Phenanthrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140			
Phenol	1.33	0.34	mg/Kg wet	1.67		79.6	20-130			
Pyrene	1.52	0.17	mg/Kg wet	1.67		91.1	40-140			
Pyridine	0.645	0.34	mg/Kg wet	1.67		38.7	10-140			†
1,2,4,5-Tetrachlorobenzene	1.46	0.34	mg/Kg wet	1.67		87.8	40-140			
1,2,4-Trichlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.0	40-140			
2,4,5-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		92.0	30-130			
2,4,6-Trichlorophenol	1.50	0.34	mg/Kg wet	1.67		89.9	30-130			
Surrogate: 2-Fluorophenol	5.74		mg/Kg wet	6.67		86.2	30-130			
Surrogate: Phenol-d6	6.18		mg/Kg wet	6.67		92.7	30-130			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.4	30-130			
Surrogate: 2-Fluorobiphenyl	4.00		mg/Kg wet	3.33		120	30-130			
Surrogate: 2,4,6-Tribromophenol	7.84		mg/Kg wet	6.67		118	30-130			
Surrogate: p-Terphenyl-d14	3.43		mg/Kg wet	3.33		103	30-130			

LCS Dup (B249431-BS1)

Prepared: 01/05/20 Analyzed: 01/06/20

Acenaphthene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	9.83	30	
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	11.8	30	
Aniline	0.905	0.34	mg/Kg wet	1.67		54.3	40-140	18.8	50	† ‡
Anthracene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140	9.07	30	
Benzo(a)anthracene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140	7.67	30	
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.7	40-140	7.55	30	
Benzo(b)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.4	40-140	5.75	30	
Benzo(g,h,i)perylene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140	9.25	30	
Benzo(k)fluoranthene	1.48	0.17	mg/Kg wet	1.67		89.1	40-140	5.37	30	
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	5.78	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 B249431 - SW-846 3546										
LCS Dup (B249431-BSD1)										
Prepared: 01/05/20 Analyzed: 01/06/20										
Bis(2-chloroethyl)ether	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	3.14	30	
Bis(2-chloroisopropyl)ether	1.72	0.34	mg/Kg wet	1.67		103	40-140	4.43	30	V-06
Bis(2-Ethylhexyl)phthalate	1.41	0.34	mg/Kg wet	1.67		84.7	40-140	5.64	30	
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.6	40-140	4.21	30	
Butylbenzylphthalate	1.37	0.34	mg/Kg wet	1.67		82.2	40-140	7.08	30	
Carbazole	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	10.9	30	
4-Chloroaniline	0.876	0.66	mg/Kg wet	1.67		52.6	40-140	14.6	30	†
4-Chloro-3-methylphenol	1.42	0.66	mg/Kg wet	1.67		85.4	30-130	11.2	30	
2-Chloronaphthalene	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	9.56	30	
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	10.5	30	
4-Chlorophenylphenylether	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	8.78	30	
Chrysene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	6.54	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	2.31	30	
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.5	40-140	10.9	30	
Di-n-butylphthalate	1.47	0.34	mg/Kg wet	1.67		88.2	40-140	5.21	30	
3,3-Dichlorobenzidine	1.34	0.17	mg/Kg wet	1.67		80.1	40-140	12.8	30	† ‡
2,4-Dichlorophenol	1.37	0.34	mg/Kg wet	1.67		82.2	30-130	8.53	30	
Diethylphthalate	1.44	0.34	mg/Kg wet	1.67		86.2	40-140	9.10	30	
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.0	30-130	9.29	30	
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	9.67	50	
4,6-Dinitro-2-methylphenol	1.23	0.34	mg/Kg wet	1.67		74.1	30-130	9.96	50	
2,4-Dinitrophenol	0.811	0.66	mg/Kg wet	1.67		48.7	30-130	9.85	50	
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	12.0	30	
2,6-Dinitrotoluene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	9.35	30	
Di-n-octylphthalate	1.36	0.34	mg/Kg wet	1.67		81.9	40-140	7.52	30	
Fluoranthene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140	8.53	30	
Fluorene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	10.2	30	
Hexachlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.4	40-140	4.86	30	
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	7.61	30	
Hexachlorocyclopentadiene	0.848	0.34	mg/Kg wet	1.67		50.9	30-140	11.4	50	
Hexachloroethane	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	0.973	50	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	7.85	50	
Isophorone	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	9.47	30	
2-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	9.75	30	
2-Methylphenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	9.53	30	
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.7	30-130	6.65	30	
Naphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	10.0	30	
2-Nitroaniline	1.51	0.34	mg/Kg wet	1.67		90.7	40-140	12.7	30	
3-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	16.9	30	†
4-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		77.9	40-140	13.8	30	
Nitrobenzene	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	9.64	30	
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130	9.10	30	
4-Nitrophenol	1.35	0.66	mg/Kg wet	1.67		80.9	10-130	34.5	50	‡
N-Nitrosodiphenylamine/Diphenylamine	1.53	0.34	mg/Kg wet	1.67		91.9	40-140	5.29	30	
N-Nitrosodi-n-propylamine	1.29	0.34	mg/Kg wet	1.67		77.3	40-140	7.90	30	
Pentachloronitrobenzene	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	7.56	30	
Pentachlorophenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130	10.3	50	
Phenanthrene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140	7.14	30	
Phenol	1.20	0.34	mg/Kg wet	1.67		72.1	20-130	9.94	30	
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	6.53	30	
Pyridine	0.615	0.34	mg/Kg wet	1.67		36.9	10-140	4.87	50	†
1,2,4,5-Tetrachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	9.47	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 B249431 - SW-846 3546
LCS Dup (B249431-BSD1)

Prepared: 01/05/20 Analyzed: 01/06/20

1,2,4-Trichlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.5	40-140	8.33	30	
2,4,5-Trichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.7	30-130	9.52	30	
2,4,6-Trichlorophenol	1.38	0.34	mg/Kg wet	1.67		83.0	30-130	7.91	50	
Surrogate: 2-Fluorophenol	5.11		mg/Kg wet	6.67		76.6	30-130			
Surrogate: Phenol-d6	5.42		mg/Kg wet	6.67		81.2	30-130			
Surrogate: Nitrobenzene-d5	2.48		mg/Kg wet	3.33		74.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.59		mg/Kg wet	3.33		108	30-130			
Surrogate: 2,4,6-Tribromophenol	6.85		mg/Kg wet	6.67		103	30-130			
Surrogate: p-Terphenyl-d14	3.19		mg/Kg wet	3.33		95.7	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 B249421 - SW-846 3540C

Blank (B249421-BLK1)

Prepared: 01/04/20 Analyzed: 01/07/20

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							
Total PCB Aroclors	0.0		mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			

LCS (B249421-BS1)

Prepared: 01/04/20 Analyzed: 01/07/20

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.5	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.6	40-140			
Aroclor-1254	ND	0.020	mg/Kg wet				40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.1	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		87.8	30-150			

LCS Dup (B249421-BSD1)

Prepared: 01/04/20 Analyzed: 01/07/20

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.0	40-140	8.75	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	7.07	30	
Aroclor-1254	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	8.50	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	9.73	30	
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg wet	0.200		95.2	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249421 - SW-846 3540C										
Matrix Spike (B249421-MS1)	Source: 20A0108-01			Prepared: 01/04/20 Analyzed: 01/07/20						
Aroclor-1016	0.20	0.080	mg/Kg dry	0.201	ND	98.4	40-140			
Aroclor-1016 [2C]	0.21	0.080	mg/Kg dry	0.201	ND	102	40-140			
Aroclor-1254	ND	0.080	mg/Kg dry		ND		40-140			
Aroclor-1254 [2C]	ND	0.080	mg/Kg dry		ND		40-140			
Aroclor-1260	0.18	0.080	mg/Kg dry	0.201	ND	90.6	40-140			
Aroclor-1260 [2C]	0.18	0.080	mg/Kg dry	0.201	ND	89.5	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.201		93.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg dry	0.201		92.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg dry	0.201		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg dry	0.201		92.1	30-150			
Matrix Spike Dup (B249421-MSD1)	Source: 20A0108-01			Prepared: 01/04/20 Analyzed: 01/07/20						
Aroclor-1016	0.19	0.080	mg/Kg dry	0.201	ND	95.7	40-140	2.78	50	
Aroclor-1016 [2C]	0.21	0.080	mg/Kg dry	0.201	ND	103	40-140	0.668	50	
Aroclor-1254	ND	0.080	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1254 [2C]	ND	0.080	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1260	0.18	0.080	mg/Kg dry	0.201	ND	91.4	40-140	0.864	50	
Aroclor-1260 [2C]	0.19	0.080	mg/Kg dry	0.201	ND	93.4	40-140	4.29	50	
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.201		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg dry	0.201		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.188		mg/Kg dry	0.201		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg dry	0.201		95.5	30-150			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249428 - SW-846 3546										
Blank (B249428-BLK1)					Prepared: 01/05/20 Analyzed: 01/06/20					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.33		75.1	50-150			
LCS (B249428-BS1)					Prepared: 01/05/20 Analyzed: 01/06/20					
CT ETPH	25.0	10	mg/Kg wet	33.3		75.1	60-120			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		72.9	50-150			
LCS Dup (B249428-BSD1)					Prepared: 01/05/20 Analyzed: 01/06/20					
CT ETPH	26.6	10	mg/Kg wet	33.3		79.7	60-120	5.93	30	
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		78.0	50-150			
Matrix Spike (B249428-MS1)					Source: 20A0108-03 Prepared: 01/05/20 Analyzed: 01/07/20					
CT ETPH	880	110	mg/Kg dry	37.1	1300	-1140 *	50-150			MS-07A
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg dry	3.71		72.3	50-150			
Matrix Spike Dup (B249428-MSD1)					Source: 20A0108-03 Prepared: 01/05/20 Analyzed: 01/07/20					
CT ETPH	861	110	mg/Kg dry	37.3	1300	-1190 *	50-150	2.21	30	MS-07A
Surrogate: 2-Fluorobiphenyl	2.84		mg/Kg dry	3.73		76.1	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 B249447 - SW-846 7471										
Blank (B249447-BLK1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B249447-BS1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Mercury	0.820	0.038	mg/Kg wet	0.761		108	72.7-127.3			
LCS Dup (B249447-BSD1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Mercury	8.78	0.37	mg/Kg wet	7.61		115	72.7-127.3	166	*	20 R-05
Batch B249480 - SW-846 3050B										
Blank (B249480-BLK1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B249480-BS1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Arsenic	128	5.0	mg/Kg wet	143		89.5	83.2-117.5			
Barium	407	5.0	mg/Kg wet	415		98.1	82.7-117.6			
Cadmium	54.8	0.50	mg/Kg wet	56.2		97.5	82.9-117.3			
Chromium	90.5	1.0	mg/Kg wet	101		89.6	82.4-116.8			
Lead	110	1.5	mg/Kg wet	125		88.4	82.4-116.8			
Selenium	62.7	10	mg/Kg wet	77.9		80.5	79.3-120.7			
Silver	33.0	1.0	mg/Kg wet	34.3		96.3	81-119.2			
LCS Dup (B249480-BSD1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Arsenic	131	4.9	mg/Kg wet	143		91.6	83.2-117.5	2.36	30	
Barium	396	4.9	mg/Kg wet	415		95.3	82.7-117.6	2.83	20	
Cadmium	55.7	0.49	mg/Kg wet	56.2		99.2	82.9-117.3	1.65	20	
Chromium	92.5	0.98	mg/Kg wet	101		91.6	82.4-116.8	2.23	30	
Lead	113	1.5	mg/Kg wet	125		90.2	82.4-116.8	2.10	30	
Selenium	65.0	9.8	mg/Kg wet	77.9		83.5	79.3-120.7	3.66	30	
Silver	33.0	0.98	mg/Kg wet	34.3		96.1	81-119.2	0.269	30	
Reference (B249480-SRM1) MRL Check				Prepared: 01/06/20 Analyzed: 01/07/20						
Lead	0.468	0.50	mg/Kg wet	0.495		94.6	80-120			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B249451 - SW-846 9014
Blank (B249451-BLK1)

Prepared: 01/06/20 Analyzed: 01/08/20

Reactive Cyanide	ND	0.40	mg/Kg							
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LCS (B249451-BS1)

Prepared: 01/06/20 Analyzed: 01/08/20

Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	82.8-113			
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Batch B249453 - SW-846 9030A
Blank (B249453-BLK1)

Prepared: 01/06/20 Analyzed: 01/08/20

Reactive Sulfide	ND	2.0	mg/Kg							
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LCS (B249453-BS1)

Prepared: 01/06/20 Analyzed: 01/08/20

Reactive Sulfide	14	2.0	mg/Kg	14.8		94.6	57.6-114			
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QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B249541 - SW-846 7470A Prep
Blank (B249541-BLK1)

Prepared: 01/07/20 Analyzed: 01/08/20

Mercury ND 0.00010 mg/L

LCS (B249541-BS1)

Prepared: 01/07/20 Analyzed: 01/08/20

Mercury 0.00385 0.00010 mg/L 0.00400 96.3 80-120

LCS Dup (B249541-BSD1)

Prepared: 01/07/20 Analyzed: 01/08/20

Mercury 0.00392 0.00010 mg/L 0.00400 97.9 80-120 1.69 20

Batch B249542 - SW-846 3015A
Blank (B249542-BLK1)

Prepared & Analyzed: 01/07/20

Arsenic ND 0.056 mg/L

Barium ND 0.56 mg/L

Cadmium ND 0.011 mg/L

Chromium ND 0.056 mg/L

Lead ND 0.11 mg/L

Selenium ND 0.056 mg/L

Silver ND 0.056 mg/L

LCS (B249542-BS1)

Prepared & Analyzed: 01/07/20

Arsenic 0.545 0.056 mg/L 0.556 98.2 80-120

Barium 0.563 0.56 mg/L 0.556 101 80-120

Cadmium 0.557 0.011 mg/L 0.556 100 80-120

Chromium 0.545 0.056 mg/L 0.556 98.0 80-120

Lead 0.534 0.11 mg/L 0.556 96.2 80-120

Selenium 0.591 0.056 mg/L 0.556 106 80-120

Silver 0.640 0.056 mg/L 0.556 115 80-120

LCS Dup (B249542-BSD1)

Prepared & Analyzed: 01/07/20

Arsenic 0.534 0.056 mg/L 0.556 96.1 80-120 2.15 20

Barium 0.554 0.56 mg/L 0.556 99.8 80-120 1.49 20

Cadmium 0.555 0.011 mg/L 0.556 99.9 80-120 0.339 20

Chromium 0.539 0.056 mg/L 0.556 96.9 80-120 1.13 20

Lead 0.525 0.11 mg/L 0.556 94.6 80-120 1.64 20

Selenium 0.577 0.056 mg/L 0.556 104 80-120 2.43 20

Silver 0.643 0.056 mg/L 0.556 116 80-120 0.483 20

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****TRC-AOC-12N-SO-02 (5)***SW-846 8082A*

Lab Sample ID: 20A0108-02 Date(s) Analyzed: 01/07/2020 01/07/2020
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	0.0

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

Lab Sample ID: B249421-BS1 Date(s) Analyzed: 01/07/2020 01/07/2020
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	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: B249421-BSD1 Date(s) Analyzed: 01/07/2020 01/07/2020
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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

Lab Sample ID: B249421-MS1 Date(s) Analyzed: 01/07/2020 01/07/2020
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B249421-MSD1 Date(s) Analyzed: 01/07/2020 01/07/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.21	10.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4

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 is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-24	Surrogate recovery is biased high due to the presence of Aroclor 1268 in the sample. Aroclor 1268 contains decachlorobiphenyl.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
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 verification (CCV) 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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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 1030 in Soil</i>	
Ignitability	NY,NH,CT,NC,ME,VA
<i>SW-846 6010D in Soil</i>	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
<i>SW-846 6010D in Water</i>	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
<i>SW-846 7470A in Water</i>	
Mercury	CT,ME,NC,NH,NY,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,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NH,NY
<i>SW-846 8270D-E 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
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
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-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-E in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
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
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	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

SW-846 9095B in Soil

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



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 TRC

Received By af Date 1/3/20 Time 16:20

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 # 5 Actual Temp -3.1
By Blank # _____ Actual Temp - _____

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

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? T

Is there enough Volume? T

Is there Headspace where applicable? N/A

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? N/A

Who was notified? _____

Who was notified? Ashly, Maria, Jessica

Who was notified? Maria

MS/MSD? F

Is splitting samples required? F

On COC? F

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-	3	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-	6	Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/3/20 16:20 DZ
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:

C:\MSDCHEM\4\DATA\D010620\D0106042.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0106042.D
 Data File Path C:\MSDCHEM\4\DATA\D010620\
 Operator RMW
 Date Acquired 1/6/1920 20:36
 Acq. Method File EPH11D.M
 Sample Name ETPH 1500
 Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.57	8555391	9908189	14
C-10	2.24	8840990	9908189	11
C-12	3.19	9177146	9908189	7
C-14	3.91	9535279	9908189	4
C-16	4.52	9787020	9908189	1
C-18	5.07	10045114	9908189	-1
C-20	5.68	10279062	9908189	-4
C-22	6.43	10420162	9908189	-5
C-24	7.27	10517661	9908189	-6
C-26	8.07	10540586	9908189	-6
C-28	8.82	10560861	9908189	-7
C-30	9.50	10569287	9908189	-7
C-32	10.14	10167410	9908189	-3
C-34	10.73	10008887	9908189	-1
C-36	11.32	9617974	9908189	3

Samples

*One compound allowed %D</=50%

20A0108-01
 20A0108-02@20X

C:\MSDCHEM\4\DATA\D010620\D0106092.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0106092.D
 Data File Path C:\MSDCHEM\4\DATA\D010620\
 Operator RMW
 Date Acquired 1/7/1920 5:04
 Acq. Method File EPH11D.M
 Sample Name ETPH 1500
 Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.57	8950192	9791403	9
C-10	2.24	9287683	9791403	5
C-12	3.19	9533195	9791403	3
C-14	3.91	9776519	9791403	0
C-16	4.52	9938507	9791403	-2
C-18	5.07	10190930	9791403	-4
C-20	5.68	10436548	9791403	-7
C-22	6.42	10368250	9791403	-6
C-24	7.27	10241514	9791403	-5
C-26	8.07	10097970	9791403	-3
C-28	8.82	9951678	9791403	-2
C-30	9.50	9873050	9791403	-1
C-32	10.13	9552653	9791403	2
C-34	10.73	9476139	9791403	3
C-36	11.32	9196219	9791403	6

Samples

*One compound allowed %D</=50%

20A0021-05@5X
 20A0108-03@50X
 20A0021-13@200X
 20A0021-14@200X
 20A0021-15@200X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

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

Project Number: 20A0108

Laboratory Sample ID(s):

20A0108-01 thru 20A0108-03

Sample Date(s):

01/03/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

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.

Lisa A. Worthington

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: Technical Representative
Printed Name: Lisa A. Worthington
Date: 01/08/20
Name of Laboratory: Con-Test Analytical Laboratory

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

Situation #3 Station B South Tunnel