Electronic Transmittal Form for DEEP Remediation and LUST Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDIATION DIVISION
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM
www.ct.gov/deep

This Electronic Transmittal Form is to be used when submitting a document to the Connecticut SFT website. This form must be completed and included as the cover sheet of your electronic document.

Requirements for Transmittals through the SFT website:

- Only document types identified in Part III below may be submitted through the SFT website.
- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
  - For Remediation Filings: **REM_RemID_DocumentType_DateofDocument**
    Example: REM_1234_MonitoringReport_01-01-2001
  - For LUST Filings: **LUST_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument**
    Example: LUST_1MainStreet_Hartford_ESA_01-01-2001
    Note: For AbbreviationForDocumentType" use appropriate abbreviation on page 2 of this form

Part I: Program Type (Select either Remediation or LUST as your Primary Program Type)

☒ Remediation	☐ LUST
Primary Program: Voluntary Remediation Program	UST Facility ID: (if applicable)
*Rem ID: 4943 (required)	Spill Case Number: (if known)

Part II: Site Information

Site Name: Former Simsbury Area Work Center
Site Address: 34 Hopmeadow Street
City/Town: Simsbury State: CT Zip Code: 06089

Secondary Programs (complete as many as applicable for this document):

Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:

Provide Project ID for each secondary program if it is known.
Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, PCB File #, etc.)

Part III: Document Information

Remediation - Monitoring Report
Date of Document: 10/10/2019

Part IV: Submitter Information

Name: Drew Blicharz **E-mail: drew.blicharz@eversource.com

**By providing this e-mail address you are agreeing to receive official correspondence from the department, at this electronic address, concerning the subject document. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

Name of company/business this document is being submitted on behalf of: CL&P dba Eversource

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street
Berlin, CT 06037

October 10, 2019

Mr. Robert Robinson
Bureau of Waste Management
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference: 1) Letter, D. Blicharz to R. Robinson, dated April 30, 2019.
2) Letter (C11330), M. Harder to R. Zaklukiewicz, dated February 26, 2002.

Dear Mr. Robinson:

Groundwater Report – 3rd Quarter 2019
Former Simsbury Area Work Center (Rem ID #4943)
34 Hopmeadow Street, Simsbury, CT

The Connecticut Light & Power Company (CL&P) doing business as (dba) Eversource Energy herein submits quarterly groundwater data for the Former Simsbury Area Work Center.

As documented in the most recent Annual Summary Report (Reference 1), a modification to the groundwater sampling program was proposed by the Licensed Environmental Professional retained to provide verification for the investigation and remediation of this site pursuant to CGS Section 22a-133v (Reference 2). Based on this and more recent evaluation, samples were collected from five (5) monitoring wells including MW-CCA-4, MW-6, MW-16, MW-101, and MW-203, and analyzed for various parameters.

As indicated in the enclosed laboratory analytical data report, groundwater sample results were below the Remediation Standard Regulation GA Groundwater Protection Criteria, Surface Water Protection Criteria, and Groundwater Volatilization Criteria except for a total petroleum hydrocarbon concentration that was detected above 250 micrograms per liter in the sample collected from monitoring well MW-101.

If you have any questions regarding this submittal, please call me at (860) 665-5751 or email me at drew.blicharz@eversource.com.

Very truly yours,

The Connecticut Light & Power Company, dba Eversource Energy

Drew Blicharz

Drew P. Blicharz
Environmental Specialist – Remediation

Enclosure

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

September 30, 2019

Jeff Willson
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: Simsbury, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 19I1044

Enclosed are results of analyses for samples received by the laboratory on September 20, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Jeff Willson

REPORT DATE: 9/30/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19I1044

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

PROJECT LOCATION: Simsbury, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-203	19I1044-01	Ground Water		SW-846 8082A	
MW-CCA4	19I1044-02	Ground Water		CTDEP ETPH	
				SW-846 8270D	
MW-101	19I1044-03	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
MW-6	19I1044-04	Ground Water		CTDEP ETPH	
				SW-846 8260C	
				SW-846 8270D	
MW-16	19I1044-05	Ground Water		CTDEP ETPH	
				SW-846 8270D	
DUP-1	19I1044-06	Ground Water		CTDEP ETPH	
				SW-846 8260C	
				SW-846 8270D	
DUP-2	19I1044-07	Ground Water		SW-846 8082A	
Trip Blank	19I1044-08	Trip Blank Water		SW-846 8260C	

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CASE NARRATIVE SUMMARY

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

For method 6020, only select list of metals was requested and reported.
For method 8270, only PAHs were requested and reported or samples 19I1044-04, 19I1044-06.

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SW-846 8260C

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:

Chloromethane
19I1044-03[MW-101], 19I1044-04[MW-6], 19I1044-06[DUP-1], 19I1044-08[Trip Blank], B241195-BLK1, B241195-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:

Bromomethane
19I1044-03[MW-101], 19I1044-04[MW-6], 19I1044-06[DUP-1], 19I1044-08[Trip Blank], B241195-BLK1, B241195-BS1, S040675-CCV1

Chloromethane
19I1044-03[MW-101], 19I1044-04[MW-6], 19I1044-06[DUP-1], 19I1044-08[Trip Blank], B241195-BLK1, B241195-BS1, S040675-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:

Bromomethane
B241195-BS1, S040675-CCV1

V-36

Initial calibration verification (ICV) 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:

Acetone
B241195-BS1, S040675-CCV1

Carbon Disulfide
B241195-BS1, S040675-CCV1

SW-846 8270D

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dimethylphenol
B241415-BSD1

2-Nitrophenol
B241415-BSD1

Isophorone
B241415-BSD1

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:

2,4-Dimethylphenol
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1

2-Nitrophenol
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1

Bis(2-chloroethoxy)methane
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1, B241415-BSD1

Isophorone
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1

Nitrobenzene
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1, B241415-BSD1

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S-07

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BS1, B241415-BSD1

Nitrobenzene-d5
B241415-BSD1

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:

Hexachloroethane
B241415-BLK1, B241415-BS1, B241415-BSD1, S040770-CCV1

Pyridine
B241415-BLK1, B241415-BS1, B241415-BSD1, S040770-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:

Pentachloronitrobenzene
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1, B241415-BSD1, S040770-CCV1, S040852-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:

3,3-Dichlorobenzidine
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1, B241415-BSD1, S040770-CCV1, S040852-CCV1

4-Chloroaniline
19I1044-02[MW-CCA4], 19I1044-05[MW-16], B241415-BLK1, B241415-BS1, B241415-BSD1, S040770-CCV1, S040852-CCV1

V-35

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

Analyte & Samples(s) Qualified:

2-Nitroaniline
19I1044-02[MW-CCA4], 19I1044-05[MW-16], S040852-CCV1

SW-846 8260C

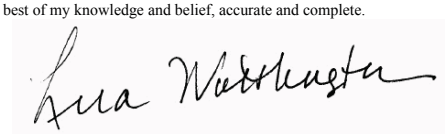
All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

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

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

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-203 | Sampled: 9/19/2019 14:00

Sample ID: 19I1044-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1221 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1232 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1242 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1248 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1254 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1260 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1262 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG
Aroclor-1268 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 11:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	80.5	30-150				9/26/19 11:48	
Decachlorobiphenyl [2]	75.1	30-150				9/26/19 11:48	
Tetrachloro-m-xylene [1]	70.8	30-150				9/26/19 11:48	
Tetrachloro-m-xylene [2]	66.4	30-150				9/26/19 11:48	

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Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-CCA4 | Sampled: 9/19/2019 09:30

Sample ID: 19I1044-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Benzo(a)pyrene (SIM)	ND	0.096	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,4-Dimethylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Fluorene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Isophorone	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2-Methylnaphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA

con-test® ANALYTICAL LABORATORY
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Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-CCA4 | Sampled: 9/19/2019 09:30

Sample ID: 19I1044-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Naphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
2-Nitroaniline	ND	10	µg/L	1	V-35	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Pentachlorophenol (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Nitrobenzene	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2-Nitrophenol	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
Pyrene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 10:46	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:11	KLB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	46.8		15-110		9/27/19 11:11
2-Fluorophenol (SIM)	42.8		15-110		9/26/19 10:46
Phenol-d6	32.8		15-110		9/27/19 11:11
Phenol-d6 (SIM)	32.5		15-110		9/26/19 10:46
Nitrobenzene-d5	82.1		30-130		9/27/19 11:11
Nitrobenzene-d5	72.8		30-130		9/26/19 10:46
2-Fluorobiphenyl	52.3		30-130		9/26/19 10:46
2-Fluorobiphenyl	86.1		30-130		9/27/19 11:11
2,4,6-Tribromophenol	**122**	*	15-110	S-07	9/27/19 11:11
2,4,6-Tribromophenol (SIM)	93.4		15-110		9/26/19 10:46
p-Terphenyl-d14	111		30-130		9/27/19 11:11
p-Terphenyl-d14	62.8		30-130		9/26/19 10:46

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-CCA4 | Sampled: 9/19/2019 09:30

Sample ID: 19I1044-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.15	mg/L	1		CTDEP ETPH	9/23/19	9/25/19 20:25	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	93.8	50-150				9/25/19 20:25	

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Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-101 | Sampled: 9/19/2019 10:20

Sample ID: 19I1044-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Bromomethane	ND	5.0	µg/L	1	V-05	SW-846 8260C	9/23/19	9/23/19 11:41	LBD
2-Butanone (MEK)	8.6	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	9/23/19	9/23/19 11:41	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-101 | Sampled: 9/19/2019 10:20

Sample ID: 19I1044-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 11:41	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		9/23/19 11:41
Toluene-d8	105	70-130		9/23/19 11:41
4-Bromofluorobenzene	99.1	70-130		9/23/19 11:41

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-101 | Sampled: 9/19/2019 10:20

Sample ID: 19I1044-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1221 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1232 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1242 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1248 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1254 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1260 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1262 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG
Aroclor-1268 [1]	ND	0.15	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.8	30-150		9/26/19 12:01
Decachlorobiphenyl [2]	67.7	30-150		9/26/19 12:01
Tetrachloro-m-xylene [1]	67.7	30-150		9/26/19 12:01
Tetrachloro-m-xylene [2]	63.4	30-150		9/26/19 12:01

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-101 | Sampled: 9/19/2019 10:20

Sample ID: 19I1044-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.30	0.15	mg/L	1		CTDEP ETPH	9/23/19	9/25/19 20:05	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	94.1	50-150		9/25/19 20:05

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Project Location: Simsbury, CT
Sample Description:
Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-101
Sampled: 9/19/2019 10:20

Sample ID: 19I1044-03

Sample Matrix: Ground 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	9/23/19	9/24/19 13:24	QNW
Barium	22	10	µg/L	1		SW-846 6020B	9/23/19	9/24/19 13:24	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	9/23/19	9/24/19 13:24	QNW
Chromium	1.5	1.0	µg/L	1		SW-846 6020B	9/23/19	9/24/19 13:24	QNW
Lead	0.72	0.50	µg/L	1		SW-846 6020B	9/23/19	9/24/19 13:24	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/24/19	9/25/19 9:08	CJV
Selenium	ND	5.0	µg/L	1		SW-846 6020B	9/23/19	9/24/19 13:24	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	9/23/19	9/24/19 13:24	QNW

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Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-6 | Sampled: 9/19/2019 11:15

Sample ID: 19I1044-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Bromomethane	ND	5.0	µg/L	1	V-05	SW-846 8260C	9/23/19	9/23/19 12:12	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	9/23/19	9/23/19 12:12	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-6 | Sampled: 9/19/2019 11:15

Sample ID: 19I1044-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:12	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		9/23/19 12:12
Toluene-d8	106	70-130		9/23/19 12:12
4-Bromofluorobenzene	102	70-130		9/23/19 12:12

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-6 | Sampled: 9/19/2019 11:15

Sample ID: 19I1044-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Acenaphthylene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Benzo(a)pyrene (SIM)	ND	0.097	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.097	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Fluorene (SIM)	ND	0.97	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.097	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
2-Methylnaphthalene (SIM)	ND	0.97	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Naphthalene (SIM)	ND	0.97	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR
Pyrene (SIM)	ND	0.97	µg/L	1		SW-846 8270D	9/25/19	9/26/19 13:51	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	73.8	30-130		9/26/19 13:51
2-Fluorobiphenyl	48.2	30-130		9/26/19 13:51
p-Terphenyl-d14	62.2	30-130		9/26/19 13:51

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-6 | Sampled: 9/19/2019 11:15

Sample ID: 19I1044-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.19	0.15	mg/L	1		CTDEP ETPH	9/23/19	9/25/19 20:05	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	88.6	50-150				9/25/19 20:05	

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Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-16 | Sampled: 9/19/2019 12:50

Sample ID: 19I1044-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Benzo(a)pyrene (SIM)	ND	0.096	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,4-Dimethylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Fluorene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Isophorone	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2-Methylnaphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-16 | Sampled: 9/19/2019 12:50

Sample ID: 19I1044-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Naphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
2-Nitroaniline	ND	10	µg/L	1	V-35	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Pentachlorophenol (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Nitrobenzene	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2-Nitrophenol	ND	10	µg/L	1	R-05	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
Pyrene (SIM)	ND	0.96	µg/L	1		SW-846 8270D	9/25/19	9/26/19 11:15	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/25/19	9/27/19 11:33	KLB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	41.8		15-110		9/27/19 11:33
2-Fluorophenol (SIM)	35.8		15-110		9/26/19 11:15
Phenol-d6	30.2		15-110		9/27/19 11:33
Phenol-d6 (SIM)	27.2		15-110		9/26/19 11:15
Nitrobenzene-d5	58.0		30-130		9/26/19 11:15
Nitrobenzene-d5	71.2		30-130		9/27/19 11:33
2-Fluorobiphenyl	44.4		30-130		9/26/19 11:15
2-Fluorobiphenyl	77.0		30-130		9/27/19 11:33
2,4,6-Tribromophenol	**119**	*	15-110	S-07	9/27/19 11:33
2,4,6-Tribromophenol (SIM)	84.6		15-110		9/26/19 11:15
p-Terphenyl-d14	57.6		30-130		9/26/19 11:15
p-Terphenyl-d14	105		30-130		9/27/19 11:33

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: MW-16 | Sampled: 9/19/2019 12:50

Sample ID: 19I1044-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.16	0.15	mg/L	1		CTDEP ETPH	9/23/19	9/25/19 19:45	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	85.5	50-150				9/25/19 19:45	

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: DUP-1 | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Bromomethane	ND	5.0	µg/L	1	V-05	SW-846 8260C	9/23/19	9/23/19 12:42	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	9/23/19	9/23/19 12:42	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: DUP-1 | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 12:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		9/23/19 12:42
Toluene-d8	107	70-130		9/23/19 12:42
4-Bromofluorobenzene	102	70-130		9/23/19 12:42

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: DUP-1 | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Benzo(a)pyrene (SIM)	ND	0.098	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.098	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Fluorene (SIM)	ND	0.98	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.098	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
2-Methylnaphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Naphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR
Pyrene (SIM)	ND	0.98	µg/L	1		SW-846 8270D	9/25/19	9/26/19 14:14	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	72.4	30-130		9/26/19 14:14
2-Fluorobiphenyl	46.3	30-130		9/26/19 14:14
p-Terphenyl-d14	60.3	30-130		9/26/19 14:14

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: DUP-1 | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-06

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.18	0.15	mg/L	1		CTDEP ETPH	9/23/19	9/25/19 19:25	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	95.0	50-150				9/25/19 19:25	

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: DUP-2 | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-07

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1221 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1232 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1242 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1248 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1254 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1260 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1262 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG
Aroclor-1268 [1]	ND	0.14	µg/L	1		SW-846 8082A	9/24/19	9/26/19 12:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	86.4	30-150		9/26/19 12:14	
Decachlorobiphenyl [2]	80.2	30-150		9/26/19 12:14	
Tetrachloro-m-xylene [1]	73.5	30-150		9/26/19 12:14	
Tetrachloro-m-xylene [2]	68.8	30-150		9/26/19 12:14	

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: Trip Blank | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Bromomethane	ND	5.0	µg/L	1	V-05	SW-846 8260C	9/23/19	9/23/19 9:37	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	9/23/19	9/23/19 9:37	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD

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

Project Location: Simsbury, CT | Sample Description: | Work Order: 19I1044

Date Received: 9/20/2019

Field Sample #: Trip Blank | Sampled: 9/19/2019 00:00

Sample ID: 19I1044-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/23/19	9/23/19 9:37	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	100	70-130		9/23/19	9:37
Toluene-d8	109	70-130		9/23/19	9:37
4-Bromofluorobenzene	101	70-130		9/23/19	9:37

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Sample Extraction Data

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-02 [MW-CCA4]	B241240	1000	1.00	09/23/19
19I1044-03 [MW-101]	B241240	1000	1.00	09/23/19
19I1044-04 [MW-6]	B241240	1020	1.00	09/23/19
19I1044-05 [MW-16]	B241240	1010	1.00	09/23/19
19I1044-06 [DUP-1]	B241240	1010	1.00	09/23/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-03 [MW-101]	B241254	50.0	50.0	09/23/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-03 [MW-101]	B241363	6.00	6.00	09/24/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-01 [MW-203]	B241311	135	2.00	09/24/19
19I1044-03 [MW-101]	B241311	135	2.00	09/24/19
19I1044-07 [DUP-2]	B241311	140	2.00	09/24/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-03 [MW-101]	B241195	5	5.00	09/23/19
19I1044-04 [MW-6]	B241195	5	5.00	09/23/19
19I1044-06 [DUP-1]	B241195	5	5.00	09/23/19
19I1044-08 [Trip Blank]	B241195	5	5.00	09/23/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-02 [MW-CCA4]	B241415	1000	1.00	09/25/19
19I1044-05 [MW-16]	B241415	1000	1.00	09/25/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19I1044-02 [MW-CCA4]	B241545	1040	1.00	09/25/19
19I1044-04 [MW-6]	B241545	1030	1.00	09/25/19
19I1044-05 [MW-16]	B241545	1040	1.00	09/25/19
19I1044-06 [DUP-1]	B241545	1020	1.00	09/25/19

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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
Batch B241195 - SW-846 5030B										
Blank (B241195-BLK1)				Prepared & Analyzed: 09/23/19						
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							V-05
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							L-03, V-05
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							

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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 B241195 - SW-846 5030B											
Blank (B241195-BLK1)				Prepared & Analyzed: 09/23/19							
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								
1,2,4-Trichlorobenzene	ND	0.50	µg/L								
1,1,1-Trichloroethane	ND	0.50	µg/L								
1,1,2-Trichloroethane	ND	0.50	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	0.50	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L								
1,2,4-Trimethylbenzene	ND	0.50	µg/L								
1,3,5-Trimethylbenzene	ND	0.50	µg/L								
Vinyl Chloride	ND	1.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.2		70-130			
Surrogate: Toluene-d8	*26.4*		µg/L	25.0		105		70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.2		70-130			
LCS (B241195-BS1)				Prepared & Analyzed: 09/23/19							
Acetone	109	10	µg/L	100		109		70-130			V-36
Acrylonitrile	11.3	2.0	µg/L	10.0		113		70-130			
Benzene	9.62	0.50	µg/L	10.0		96.2		70-130			
Bromobenzene	9.24	0.50	µg/L	10.0		92.4		70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130			
Bromoform	9.42	0.50	µg/L	10.0		94.2		70-130			
Bromomethane	8.02	1.0	µg/L	10.0		80.2		70-130			V-05, V-34
2-Butanone (MEK)	115	5.0	µg/L	100		115		70-130			
n-Butylbenzene	7.78	1.0	µg/L	10.0		77.8		70-130			
sec-Butylbenzene	8.35	1.0	µg/L	10.0		83.5		70-130			
tert-Butylbenzene	9.28	1.0	µg/L	10.0		92.8		70-130			
Carbon Disulfide	79.6	5.0	µg/L	100		79.6		70-130			V-36
Carbon Tetrachloride	9.70	0.50	µg/L	10.0		97.0		70-130			
Chlorobenzene	9.57	0.50	µg/L	10.0		95.7		70-130			
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112		70-130			
Chloroethane	9.53	0.50	µg/L	10.0		95.3		70-130			
Chloroform	9.99	0.50	µg/L	10.0		99.9		70-130			
Chloromethane	5.83	0.60	µg/L	10.0		**58.3**	*	70-130			L-03, V-05
2-Chlorotoluene	8.87	0.50	µg/L	10.0		88.7		70-130			
4-Chlorotoluene	8.93	0.50	µg/L	10.0		89.3		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.7	1.0	µg/L	10.0		107		70-130			
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110		70-130			
Dibromomethane	10.4	0.50	µg/L	10.0		104		70-130			
1,2-Dichlorobenzene	9.60	0.50	µg/L	10.0		96.0		70-130			
1,3-Dichlorobenzene	9.21	0.50	µg/L	10.0		92.1		70-130			
1,4-Dichlorobenzene	9.43	0.50	µg/L	10.0		94.3		70-130			
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106		70-130			
Dichlorodifluoromethane (Freon 12)	8.92	0.50	µg/L	10.0		89.2		70-130			
1,1-Dichloroethane	10.2	0.50	µg/L	10.0		102		70-130			
1,2-Dichloroethane	10.9	0.50	µg/L	10.0		109		70-130			
1,1-Dichloroethylene	9.82	0.50	µg/L	10.0		98.2		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241195 - SW-846 5030B										
LCS (B241195-BS1)				Prepared & Analyzed: 09/23/19						
cis-1,2-Dichloroethylene	10.4	0.50	µg/L	10.0		104	70-130			
trans-1,2-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3	70-130			
1,2-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
1,3-Dichloropropane	10.9	0.50	µg/L	10.0		109	70-130			
2,2-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130			
1,1-Dichloropropene	9.62	0.50	µg/L	10.0		96.2	70-130			
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130			
Ethylbenzene	8.97	0.50	µg/L	10.0		89.7	70-130			
Hexachlorobutadiene	9.49	0.60	µg/L	10.0		94.9	70-130			
2-Hexanone (MBK)	125	5.0	µg/L	100		125	70-130			
Isopropylbenzene (Cumene)	9.15	0.50	µg/L	10.0		91.5	70-130			
p-Isopropyltoluene (p-Cymene)	8.83	0.50	µg/L	10.0		88.3	70-130			
Methyl tert-Butyl Ether (MTBE)	10.0	0.50	µg/L	10.0		100	70-130			
Methylene Chloride	9.37	5.0	µg/L	10.0		93.7	70-130			
4-Methyl-2-pentanone (MIBK)	128	5.0	µg/L	100		128	70-130			
Naphthalene	10.4	2.0	µg/L	10.0		104	70-130			
n-Propylbenzene	8.67	1.0	µg/L	10.0		86.7	70-130			
Styrene	9.20	1.0	µg/L	10.0		92.0	70-130			
1,1,1,2-Tetrachloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Tetrahydrofuran	9.89	10	µg/L	10.0		98.9	70-130			
Toluene	10.0	1.0	µg/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	9.73	1.0	µg/L	10.0		97.3	70-130			
1,2,4-Trichlorobenzene	9.12	0.50	µg/L	10.0		91.2	70-130			
1,1,1-Trichloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
1,1,2-Trichloroethane	11.2	0.50	µg/L	10.0		112	70-130			
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Trichlorofluoromethane (Freon 11)	9.41	2.0	µg/L	10.0		94.1	70-130			
1,2,3-Trichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.98	0.50	µg/L	10.0		99.8	70-130			
1,2,4-Trimethylbenzene	8.98	0.50	µg/L	10.0		89.8	70-130			
1,3,5-Trimethylbenzene	8.81	0.50	µg/L	10.0		88.1	70-130			
Vinyl Chloride	9.02	1.0	µg/L	10.0		90.2	70-130			
m+p Xylene	18.0	2.0	µg/L	20.0		89.9	70-130			
o-Xylene	8.89	1.0	µg/L	10.0		88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.3	70-130			
Surrogate: Toluene-d8	*27.0*		µg/L	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.6	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 B241415 - SW-846 3510C										
Blank (B241415-BLK1)				Prepared: 09/25/19 Analyzed: 09/26/19						
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							R-05
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
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							V-34
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							R-05
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	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							V-05
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							R-05
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							R-05
2-Nitrophenol	ND	10	µg/L							R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B241415 - SW-846 3510C											
Blank (B241415-BLK1)				Prepared: 09/25/19 Analyzed: 09/26/19							
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							V-16	
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	µg/L							V-05	
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	*108*		µg/L	200		54.0	15-110				
Surrogate: Phenol-d6	*86.0*		µg/L	200		43.0	15-110				
Surrogate: Nitrobenzene-d5	*115*		µg/L	100		115	30-130				
Surrogate: 2-Fluorobiphenyl	*87.3*		µg/L	100		87.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*216*		µg/L	200		108	15-110				
Surrogate: p-Terphenyl-d14	*108*		µg/L	100		108	30-130				
LCS (B241415-BS1)				Prepared: 09/25/19 Analyzed: 09/26/19							
Acenaphthene	48.3	5.0	µg/L	50.0		96.5	40-140				
Acenaphthylene	48.4	5.0	µg/L	50.0		96.8	40-140				
Aniline	55.9	5.0	µg/L	50.0		112	40-140				†
Anthracene	50.1	5.0	µg/L	50.0		100	40-140				
Benzo(a)anthracene	51.8	5.0	µg/L	50.0		104	40-140				
Benzo(a)pyrene	50.4	5.0	µg/L	50.0		101	40-140				
Benzo(b)fluoranthene	52.2	5.0	µg/L	50.0		104	40-140				
Benzo(g,h,i)perylene	50.8	5.0	µg/L	50.0		102	40-140				
Benzo(k)fluoranthene	51.3	5.0	µg/L	50.0		103	40-140				
Bis(2-chloroethoxy)methane	48.8	10	µg/L	50.0		97.6	40-140			R-05	
Bis(2-chloroethyl)ether	55.5	10	µg/L	50.0		111	40-140				
Bis(2-chloroisopropyl)ether	62.9	10	µg/L	50.0		126	40-140				
Bis(2-Ethylhexyl)phthalate	53.4	10	µg/L	50.0		107	40-140				
4-Bromophenylphenylether	47.0	10	µg/L	50.0		94.0	40-140				
Butylbenzylphthalate	52.2	10	µg/L	50.0		104	40-140				
Carbazole	50.0	10	µg/L	50.0		99.9	40-140				
4-Chloroaniline	49.6	10	µg/L	50.0		99.3	40-140			V-34	†
4-Chloro-3-methylphenol	52.7	10	µg/L	50.0		105	30-130				
2-Chloronaphthalene	41.6	10	µg/L	50.0		83.2	40-140				
2-Chlorophenol	48.5	10	µg/L	50.0		97.0	30-130				
4-Chlorophenylphenylether	50.2	10	µg/L	50.0		100	40-140				
Chrysene	49.8	5.0	µg/L	50.0		99.5	40-140				
Dibenz(a,h)anthracene	50.8	5.0	µg/L	50.0		102	40-140				
Dibenzofuran	50.9	5.0	µg/L	50.0		102	40-140				
Di-n-butylphthalate	50.0	10	µg/L	50.0		100	40-140				
3,3-Dichlorobenzidine	59.8	10	µg/L	50.0		120	40-140			V-34	†
2,4-Dichlorophenol	49.8	10	µg/L	50.0		99.7	30-130				
Diethylphthalate	50.2	10	µg/L	50.0		100	40-140				
2,4-Dimethylphenol	47.8	10	µg/L	50.0		95.6	30-130			R-05	
Dimethylphthalate	50.3	10	µg/L	50.0		101	40-140				
4,6-Dinitro-2-methylphenol	47.6	10	µg/L	50.0		95.2	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B241415 - SW-846 3510C											
LCS (B241415-BS1)				Prepared: 09/25/19 Analyzed: 09/26/19							
2,4-Dinitrophenol	50.7	10	µg/L	50.0		101	30-130				
2,4-Dinitrotoluene	52.2	10	µg/L	50.0		104	40-140				
2,6-Dinitrotoluene	53.2	10	µg/L	50.0		106	40-140				
Di-n-octylphthalate	56.7	10	µg/L	50.0		113	40-140				
Fluoranthene	53.1	5.0	µg/L	50.0		106	40-140				
Fluorene	50.0	5.0	µg/L	50.0		100	40-140				
Hexachlorobenzene	48.3	10	µg/L	50.0		96.6	40-140				
Hexachlorobutadiene	42.5	10	µg/L	50.0		85.1	40-140				
Hexachlorocyclopentadiene	38.5	10	µg/L	50.0		77.0	30-140				
Hexachloroethane	34.9	10	µg/L	50.0		69.9	40-140			V-05	
Indeno(1,2,3-cd)pyrene	55.6	5.0	µg/L	50.0		111	40-140				
Isophorone	59.6	10	µg/L	50.0		119	40-140			R-05	
2-Methylnaphthalene	52.9	5.0	µg/L	50.0		106	40-140				
2-Methylphenol	49.0	10	µg/L	50.0		98.1	30-130				
3/4-Methylphenol	40.2	10	µg/L	50.0		80.4	30-130				
Naphthalene	46.2	5.0	µg/L	50.0		92.4	40-140				
2-Nitroaniline	63.0	10	µg/L	50.0		126	40-140				
3-Nitroaniline	50.3	10	µg/L	50.0		101	40-140				†
4-Nitroaniline	54.6	10	µg/L	50.0		109	40-140				
Nitrobenzene	54.1	10	µg/L	50.0		108	40-140			R-05	
2-Nitrophenol	49.5	10	µg/L	50.0		99.1	30-130			R-05	
4-Nitrophenol	29.2	10	µg/L	50.0		58.5	10-130				
N-Nitrosodiphenylamine/Diphenylamine	50.5	10	µg/L	50.0		101	40-140				
N-Nitrosodi-n-propylamine	48.8	10	µg/L	50.0		97.5	40-140				
Pentachloronitrobenzene	48.5	10	µg/L	50.0		97.0	40-140			V-16	
Pentachlorophenol	36.5	10	µg/L	50.0		72.9	30-130				
Phenanthrene	49.2	5.0	µg/L	50.0		98.4	40-140				
Phenol	23.8	10	µg/L	50.0		47.7	20-130				
Pyrene	50.0	5.0	µg/L	50.0		99.9	40-140				
Pyridine	13.4	5.0	µg/L	50.0		26.7	10-140			V-05	†
1,2,4,5-Tetrachlorobenzene	44.6	10	µg/L	50.0		89.2	40-140				
1,2,4-Trichlorobenzene	44.1	5.0	µg/L	50.0		88.3	40-140				
2,4,5-Trichlorophenol	49.9	10	µg/L	50.0		99.7	30-130				
2,4,6-Trichlorophenol	50.3	10	µg/L	50.0		101	30-130				
Surrogate: 2-Fluorophenol	*133*		µg/L	200		66.5	15-110				
Surrogate: Phenol-d6	*102*		µg/L	200		50.9	15-110				
Surrogate: Nitrobenzene-d5	*113*		µg/L	100		113	30-130				
Surrogate: 2-Fluorobiphenyl	*100*		µg/L	100		100	30-130				
Surrogate: 2,4,6-Tribromophenol	*243*		µg/L	200		**122** *	15-110			S-07	
Surrogate: p-Terphenyl-d14	*115*		µg/L	100		115	30-130				
LCS Dup (B241415-BSD1)				Prepared: 09/25/19 Analyzed: 09/26/19							
Acenaphthene	46.4	5.0	µg/L	50.0		92.9	40-140	3.84	20		
Acenaphthylene	46.8	5.0	µg/L	50.0		93.5	40-140	3.49	20		
Aniline	45.1	5.0	µg/L	50.0		90.1	40-140	21.5	50		† ‡
Anthracene	48.5	5.0	µg/L	50.0		97.0	40-140	3.24	20		
Benzo(a)anthracene	50.2	5.0	µg/L	50.0		100	40-140	3.24	20		
Benzo(a)pyrene	48.6	5.0	µg/L	50.0		97.3	40-140	3.49	20		
Benzo(b)fluoranthene	49.2	5.0	µg/L	50.0		98.4	40-140	5.78	20		
Benzo(g,h,i)perylene	48.5	5.0	µg/L	50.0		97.1	40-140	4.45	20		
Benzo(k)fluoranthene	48.3	5.0	µg/L	50.0		96.5	40-140	6.11	20		
Bis(2-chloroethoxy)methane	69.4	10	µg/L	50.0		139	40-140	**34.9** *	20	R-05	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result		%REC %REC Limits		RPD RPD		Notes	
Batch B241415 - SW-846 3510C												
LCS Dup (B241415-BSD1)				Prepared: 09/25/19 Analyzed: 09/26/19								
Bis(2-chloroethyl)ether	49.2	10	µg/L	50.0		98.3	40-140		12.1	20		
Bis(2-chloroisopropyl)ether	60.6	10	µg/L	50.0		121	40-140		3.72	20		
Bis(2-Ethylhexyl)phthalate	51.5	10	µg/L	50.0		103	40-140		3.66	20		
4-Bromophenylphenylether	44.2	10	µg/L	50.0		88.3	40-140		6.21	20		
Butylbenzylphthalate	50.5	10	µg/L	50.0		101	40-140		3.21	20		
Carbazole	48.6	10	µg/L	50.0		97.1	40-140		2.82	20		
4-Chloroaniline	44.3	10	µg/L	50.0		88.6	40-140		11.4	20	V-34	†
4-Chloro-3-methylphenol	50.3	10	µg/L	50.0		101	30-130		4.62	20		
2-Chloronaphthalene	40.3	10	µg/L	50.0		80.5	40-140		3.27	20		
2-Chlorophenol	42.8	10	µg/L	50.0		85.6	30-130		12.6	20		
4-Chlorophenylphenylether	47.6	10	µg/L	50.0		95.1	40-140		5.30	20		
Chrysene	47.9	5.0	µg/L	50.0		95.7	40-140		3.87	20		
Dibenz(a,h)anthracene	48.3	5.0	µg/L	50.0		96.6	40-140		4.96	20		
Dibenzofuran	48.6	5.0	µg/L	50.0		97.2	40-140		4.50	20		
Di-n-butylphthalate	47.8	10	µg/L	50.0		95.5	40-140		4.66	20		
3,3-Dichlorobenzidine	57.3	10	µg/L	50.0		115	40-140		4.25	20	V-34	† ‡
2,4-Dichlorophenol	51.8	10	µg/L	50.0		104	30-130		3.90	20		
Diethylphthalate	48.4	10	µg/L	50.0		96.9	40-140		3.51	20		
2,4-Dimethylphenol	67.4	10	µg/L	50.0		**135**	* 30-130		**34.1**	* 20	L-07A	
Dimethylphthalate	48.1	10	µg/L	50.0		96.3	40-140		4.33	50		
4,6-Dinitro-2-methylphenol	44.3	10	µg/L	50.0		88.7	30-130		7.14	50		
2,4-Dinitrophenol	47.6	10	µg/L	50.0		95.2	30-130		6.37	50		
2,4-Dinitrotoluene	50.5	10	µg/L	50.0		101	40-140		3.31	20		
2,6-Dinitrotoluene	52.1	10	µg/L	50.0		104	40-140		2.03	20		
Di-n-octylphthalate	53.6	10	µg/L	50.0		107	40-140		5.69	20		
Fluoranthene	51.2	5.0	µg/L	50.0		102	40-140		3.66	20		
Fluorene	48.2	5.0	µg/L	50.0		96.5	40-140		3.60	20		
Hexachlorobenzene	46.2	10	µg/L	50.0		92.4	40-140		4.42	20		
Hexachlorobutadiene	40.5	10	µg/L	50.0		81.0	40-140		4.89	20		
Hexachlorocyclopentadiene	36.2	10	µg/L	50.0		72.3	30-140		6.30	50		
Hexachloroethane	38.0	10	µg/L	50.0		75.9	40-140		8.29	50	V-05	
Indeno(1,2,3-cd)pyrene	53.9	5.0	µg/L	50.0		108	40-140		3.07	50		
Isophorone	79.2	10	µg/L	50.0		**158**	* 40-140		**28.3**	* 20	L-07A	
2-Methylnaphthalene	52.0	5.0	µg/L	50.0		104	40-140		1.74	20		
2-Methylphenol	43.6	10	µg/L	50.0		87.2	30-130		11.7	20		
3/4-Methylphenol	39.6	10	µg/L	50.0		79.2	30-130		1.43	20		
Naphthalene	44.7	5.0	µg/L	50.0		89.4	40-140		3.30	20		
2-Nitroaniline	59.9	10	µg/L	50.0		120	40-140		5.11	20		
3-Nitroaniline	46.3	10	µg/L	50.0		92.5	40-140		8.37	20		†
4-Nitroaniline	52.8	10	µg/L	50.0		106	40-140		3.33	20		
Nitrobenzene	68.5	10	µg/L	50.0		137	40-140		**23.4**	* 20	R-05	
2-Nitrophenol	68.9	10	µg/L	50.0		**138**	* 30-130		**32.8**	* 20	L-07A	
4-Nitrophenol	27.5	10	µg/L	50.0		54.9	10-130		6.24	50		‡
N-Nitrosodiphenylamine/Diphenylamine	48.5	10	µg/L	50.0		97.0	40-140		4.02	20		
N-Nitrosodi-n-propylamine	50.9	10	µg/L	50.0		102	40-140		4.32	20		
Pentachloronitrobenzene	47.4	10	µg/L	50.0		94.8	40-140		2.29	20	V-16	
Pentachlorophenol	35.9	10	µg/L	50.0		71.8	30-130		1.52	50		
Phenanthrene	48.0	5.0	µg/L	50.0		96.1	40-140		2.41	20		
Phenol	22.1	10	µg/L	50.0		44.2	20-130		7.48	20		
Pyrene	48.2	5.0	µg/L	50.0		96.4	40-140		3.57	20		
Pyridine	10.0	5.0	µg/L	50.0		20.0	10-140		28.5	50	V-05	†
1,2,4,5-Tetrachlorobenzene	41.9	10	µg/L	50.0		83.8	40-140		6.24	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
Batch B241415 - SW-846 3510C											
LCS Dup (B241415-BSD1)				Prepared: 09/25/19 Analyzed: 09/26/19							
1,2,4-Trichlorobenzene	41.9	5.0	µg/L	50.0		83.8		40-140	5.21	20	
2,4,5-Trichlorophenol	47.4	10	µg/L	50.0		94.7		30-130	5.14	20	
2,4,6-Trichlorophenol	47.2	10	µg/L	50.0		94.4		30-130	6.30	50	
Surrogate: 2-Fluorophenol	*118*		µg/L	200		58.9		15-110			
Surrogate: Phenol-d6	*90.9*		µg/L	200		45.4		15-110			
Surrogate: Nitrobenzene-d5	*139*		µg/L	100		**139**	*	30-130			S-07
Surrogate: 2-Fluorobiphenyl	*93.6*		µg/L	100		93.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*228*		µg/L	200		**114**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*108*		µg/L	100		108		30-130			
Batch B241545 - SW-846 3510C											
Blank (B241545-BLK1)				Prepared: 09/25/19 Analyzed: 09/26/19							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (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	0.20	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								
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L								
2-Methylnaphthalene (SIM)	ND	1.0	µg/L								
Naphthalene (SIM)	ND	1.0	µg/L								
Pentachlorophenol (SIM)	ND	1.0	µg/L								
Phenanthrene (SIM)	ND	0.050	µg/L								
Pyrene (SIM)	ND	1.0	µg/L								
Surrogate: Nitrobenzene-d5	*69.2*		µg/L	100		69.2		30-130			
Surrogate: 2-Fluorobiphenyl	*52.9*		µg/L	100		52.9		30-130			
Surrogate: p-Terphenyl-d14	*68.1*		µg/L	100		68.1		30-130			
LCS (B241545-BS1)				Prepared: 09/25/19 Analyzed: 09/26/19							
Acenaphthene (SIM)	39.2	6.0	µg/L	50.0		78.4		40-140			
Acenaphthylene (SIM)	39.6	6.0	µg/L	50.0		79.2		40-140			
Acenaphthylene (SIM)	39.6	4.0	µg/L	50.0		79.2		40-140			
Anthracene (SIM)	42.7	4.0	µg/L	50.0		85.4		40-140			
Benzo(a)anthracene (SIM)	41.9	1.0	µg/L	50.0		83.9		40-140			
Benzo(a)pyrene (SIM)	43.2	2.0	µg/L	50.0		86.4		40-140			
Benzo(b)fluoranthene (SIM)	46.9	1.0	µg/L	50.0		93.7		40-140			
Benzo(g,h,i)perylene (SIM)	45.6	10	µg/L	50.0		91.3		40-140			
Benzo(k)fluoranthene (SIM)	47.5	4.0	µg/L	50.0		94.9		40-140			
Chrysene (SIM)	40.8	4.0	µg/L	50.0		81.7		40-140			
Dibenz(a,h)anthracene (SIM)	49.4	4.0	µg/L	50.0		98.9		40-140			
Dibenz(a,h)anthracene (SIM)	49.4	2.0	µg/L	50.0		98.9		40-140			
Fluoranthene (SIM)	42.2	10	µg/L	50.0		84.3		40-140			
Fluorene (SIM)	40.6	20	µg/L	50.0		81.2		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 B241545 - SW-846 3510C										
LCS (B241545-BS1)				Prepared: 09/25/19 Analyzed: 09/26/19						
Indeno(1,2,3-cd)pyrene (SIM)	49.5	4.0	µg/L	50.0		98.9	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	49.5	2.0	µg/L	50.0		98.9	40-140			
2-Methylnaphthalene (SIM)	40.3	20	µg/L	50.0		80.7	40-140			
Naphthalene (SIM)	37.8	20	µg/L	50.0		75.6	40-140			
Pentachlorophenol (SIM)	35.5	20	µg/L	50.0		71.0	40-140			
Phenanthrene (SIM)	40.9	1.0	µg/L	50.0		81.8	40-140			
Pyrene (SIM)	40.6	20	µg/L	50.0		81.1	40-140			
Surrogate: Nitrobenzene-d5	*78.9*		µg/L	100		78.9	30-130			
Surrogate: 2-Fluorobiphenyl	*66.7*		µg/L	100		66.7	30-130			
Surrogate: p-Terphenyl-d14	*68.6*		µg/L	100		68.6	30-130			
LCS Dup (B241545-BSD1)				Prepared: 09/25/19 Analyzed: 09/26/19						
Acenaphthene (SIM)	42.7	6.0	µg/L	50.0		85.4	40-140	8.50	20	
Acenaphthylene (SIM)	43.1	4.0	µg/L	50.0		86.2	40-140	8.41	20	
Acenaphthylene (SIM)	43.1	6.0	µg/L	50.0		86.2	40-140	8.41	20	
Anthracene (SIM)	45.9	4.0	µg/L	50.0		91.9	40-140	7.36	20	
Benzo(a)anthracene (SIM)	45.0	1.0	µg/L	50.0		90.0	40-140	7.08	20	
Benzo(a)pyrene (SIM)	46.7	2.0	µg/L	50.0		93.4	40-140	7.88	20	
Benzo(b)fluoranthene (SIM)	50.8	1.0	µg/L	50.0		102	40-140	7.99	20	
Benzo(g,h,i)perylene (SIM)	49.5	10	µg/L	50.0		99.0	40-140	8.07	20	
Benzo(k)fluoranthene (SIM)	51.3	4.0	µg/L	50.0		103	40-140	7.82	20	
Chrysene (SIM)	44.2	4.0	µg/L	50.0		88.4	40-140	7.86	20	
Dibenz(a,h)anthracene (SIM)	53.4	4.0	µg/L	50.0		107	40-140	7.70	20	
Dibenz(a,h)anthracene (SIM)	53.4	2.0	µg/L	50.0		107	40-140	7.70	20	
Fluoranthene (SIM)	45.5	10	µg/L	50.0		90.9	40-140	7.53	20	
Fluorene (SIM)	44.0	20	µg/L	50.0		88.0	40-140	8.13	20	
Indeno(1,2,3-cd)pyrene (SIM)	53.5	4.0	µg/L	50.0		107	40-140	7.92	20	‡
Indeno(1,2,3-cd)pyrene (SIM)	53.5	2.0	µg/L	50.0		107	40-140	7.92	20	‡
2-Methylnaphthalene (SIM)	44.2	20	µg/L	50.0		88.4	40-140	9.13	20	
Naphthalene (SIM)	41.5	20	µg/L	50.0		82.9	40-140	9.18	20	
Pentachlorophenol (SIM)	38.9	20	µg/L	50.0		77.8	40-140	9.13	20	
Phenanthrene (SIM)	44.1	1.0	µg/L	50.0		88.1	40-140	7.44	20	
Pyrene (SIM)	43.7	20	µg/L	50.0		87.3	40-140	7.36	20	
Surrogate: Nitrobenzene-d5	*83.8*		µg/L	100		83.8	30-130			
Surrogate: 2-Fluorobiphenyl	*71.1*		µg/L	100		71.1	30-130			
Surrogate: p-Terphenyl-d14	*73.0*		µg/L	100		73.0	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
Batch B241311 - SW-846 3510C										
Blank (B241311-BLK1)				Prepared: 09/24/19 Analyzed: 09/26/19						
Aroclor-1016	ND	0.17	µg/L							
Aroclor-1016 [2C]	ND	0.17	µg/L							
Aroclor-1221	ND	0.17	µg/L							
Aroclor-1221 [2C]	ND	0.17	µg/L							
Aroclor-1232	ND	0.17	µg/L							
Aroclor-1232 [2C]	ND	0.17	µg/L							
Aroclor-1242	ND	0.17	µg/L							
Aroclor-1242 [2C]	ND	0.17	µg/L							
Aroclor-1248	ND	0.17	µg/L							
Aroclor-1248 [2C]	ND	0.17	µg/L							
Aroclor-1254	ND	0.17	µg/L							
Aroclor-1254 [2C]	ND	0.17	µg/L							
Aroclor-1260	ND	0.17	µg/L							
Aroclor-1260 [2C]	ND	0.17	µg/L							
Aroclor-1262	ND	0.17	µg/L							
Aroclor-1262 [2C]	ND	0.17	µg/L							
Aroclor-1268	ND	0.17	µg/L							
Aroclor-1268 [2C]	ND	0.17	µg/L							
Surrogate: Decachlorobiphenyl	*3.20*		µg/L	3.33		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.01*		µg/L	3.33		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.73*		µg/L	3.33		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.57*		µg/L	3.33		77.2	30-150			
LCS (B241311-BS1)				Prepared: 09/24/19 Analyzed: 09/26/19						
Aroclor-1016	0.42	0.20	µg/L	0.500		83.5	40-140			
Aroclor-1016 [2C]	0.39	0.20	µg/L	0.500		77.4	40-140			
Aroclor-1260	0.37	0.20	µg/L	0.500		74.4	40-140			
Aroclor-1260 [2C]	0.36	0.20	µg/L	0.500		72.2	40-140			
Surrogate: Decachlorobiphenyl	*1.45*		µg/L	2.00		72.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.36*		µg/L	2.00		68.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.52*		µg/L	2.00		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.43*		µg/L	2.00		71.5	30-150			
LCS Dup (B241311-BSD1)				Prepared: 09/24/19 Analyzed: 09/26/19						
Aroclor-1016	0.42	0.20	µg/L	0.500		83.2	40-140	0.324	20	
Aroclor-1016 [2C]	0.39	0.20	µg/L	0.500		77.3	40-140	0.137	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		76.0	40-140	2.13	20	
Aroclor-1260 [2C]	0.39	0.20	µg/L	0.500		77.4	40-140	6.91	20	
Surrogate: Decachlorobiphenyl	*1.53*		µg/L	2.00		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.44*		µg/L	2.00		72.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.46*		µg/L	2.00		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.38*		µg/L	2.00		69.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241240 - SW-846 3510C										
Blank (B241240-BLK1)				Prepared: 09/23/19 Analyzed: 09/25/19						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.107*		mg/L	0.100		107	50-150			
LCS (B241240-BS1)				Prepared: 09/23/19 Analyzed: 09/25/19						
CT ETPH	0.802	0.15	mg/L	1.00		80.2	60-120			
Surrogate: 2-Fluorobiphenyl	*0.0993*		mg/L	0.100		99.3	50-150			
LCS Dup (B241240-BSD1)				Prepared: 09/23/19 Analyzed: 09/25/19						
CT ETPH	0.823	0.15	mg/L	1.00		82.3	60-120	2.57	30	
Surrogate: 2-Fluorobiphenyl	*0.100*		mg/L	0.100		100	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 B241254 - SW-846 3005A										
Blank (B241254-BLK1)				Prepared: 09/23/19 Analyzed: 09/24/19						
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 (B241254-BS1)				Prepared: 09/23/19 Analyzed: 09/24/19						
Arsenic	503	8.0	µg/L	500		101	80-120			
Barium	494	100	µg/L	500		98.8	80-120			
Cadmium	501	2.0	µg/L	500		100	80-120			
Chromium	518	10	µg/L	500		104	80-120			
Lead	503	5.0	µg/L	500		101	80-120			
Selenium	512	50	µg/L	500		102	80-120			
Silver	503	2.0	µg/L	500		101	80-120			
LCS Dup (B241254-BSD1)				Prepared: 09/23/19 Analyzed: 09/24/19						
Arsenic	503	8.0	µg/L	500		101	80-120	0.000971	20	
Barium	499	100	µg/L	500		99.9	80-120	1.06	20	
Cadmium	510	2.0	µg/L	500		102	80-120	1.64	20	
Chromium	521	10	µg/L	500		104	80-120	0.719	20	
Lead	507	5.0	µg/L	500		101	80-120	0.671	20	
Selenium	516	50	µg/L	500		103	80-120	0.942	20	
Silver	511	2.0	µg/L	500		102	80-120	1.62	20	
Batch B241363 - SW-846 7470A Prep										
Blank (B241363-BLK1)				Prepared: 09/24/19 Analyzed: 09/25/19						
Mercury	ND	0.00010	mg/L							
LCS (B241363-BS1)				Prepared: 09/24/19 Analyzed: 09/25/19						
Mercury	0.00387	0.00010	mg/L	0.00400		96.7	80-120			
LCS Dup (B241363-BSD1)				Prepared: 09/24/19 Analyzed: 09/25/19						
Mercury	0.00389	0.00010	mg/L	0.00400		97.2	80-120	0.482	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B241311-BS1 Date(s) Analyzed: 09/26/2019 09/26/2019

Instrument ID (1): ECD3 Instrument ID (2): ECD3

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.39	7.4
Aroclor-1260	1	0.000	0.000	0.000	0.37	
	2	0.000	0.000	0.000	0.36	2.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B241311-BSD1 Date(s) Analyzed: 09/26/2019 09/26/2019

Instrument ID (1): ECD3 Instrument ID (2): ECD3

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.39	7.4
Aroclor-1260	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.39	2.6

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
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-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low 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-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) 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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
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,NH,NY,NC,ME,VA
SW-846 8082A in Water	
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
SW-846 8260C in Water	
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
SW-846 8270D in Water	
Aniline	CT,NY
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
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
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	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
2-Fluorophenol	NC,VA
Phenol-d6	VA
Nitrobenzene-d5	VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc 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	12/31/2019
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	12/14/2019
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

con-test ANALYTICAL LABORATORY

MEK

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

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http://www.contestlabs.com

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39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name:	Weston & Sampson - (for Eversource Energy)
Address:	273 Dividend Road, Rocky Hill, CT 06067
Phone:	(860) 513-1473
Project Name:	Simsbury AWC
Project Location:	Simsbury, CT
Project Number:	Client PO = 10227659
Project Manager:	Jeff Willson
Con-Test Bid:	n/a
Invoice Recipient:	Weston & Sampson (Jeff Willson)
Sampled By:	Will Sirotnak

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: ☐ 5-7 Bus. Days ☑

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

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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOCs (8260)	PCBs	CT ETPH	SVOCs (incl. PCP) *1	Total RCRA 8 Metals	PAHs *1	# of Containers	[2] Preservation Code	[3] Container Code
								3	2	2	2	1	2			
								H	I	I	I	N	I			
								V	A	A	A	P	A			
1	MW-203	9/19/19	1400		X	GW	U		X							
2	MW-CCA4		930							X	X					
3	MW-101		1020					X	X	X		X				
4	MW-6		1115					X		X			X			
5	MW-16		1250							X	X					
6	DUP-1		-					X		X			X			
7	DUP-2		-						X							
8	Trip Blank		-					X								

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments: (1) Please bill Weston & Sampson directly, using Eversource rates.

*1 - Run all SVOC and PAH samples using SIM method at low detection limits

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

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

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

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

	Date/Time:
Relinquished by: (signature) 9/20/19	
Received by: (signature) 9/20/19	11:00
Relinquished by: (signature) 9/20/19	1500
Received by: (signature) 9/20/19	1500 28
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT CTDEEP RSRs (includes RES DEC & GA PMC)
Other

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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 Weston + Sampson - (for Eversource Energy)

Received By CR Date 09/20/19 Time 1500

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 2 Actual Temp - 2.9

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

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

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

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

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

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

Were trip blanks received? T On COC? T

Do all samples have the proper pH? Acid TPhL2 Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	17	1 Liter Plastic		16 oz Amb.	
HCL-	11	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.	6	250 mL Plastic	1	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			

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\D092519.SEC\D0925007.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0925007.D
Data File Path C:\MSDCHEM\4\DATA\D092519.SEC\
Operator RMW
Date Acquired 9/25/2019 16:02
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.54	9364998	10527579	11
C-10	2.21	9599869	10527579	9
C-12	3.16	9988271	10527579	5
C-14	3.88	10235528	10527579	3
C-16	4.49	10460950	10527579	1
C-18	5.03	10700035	10527579	-2
C-20	5.62	10734342	10527579	-2
C-22	6.35	10837589	10527579	-3
C-24	7.18	10862703	10527579	-3
C-26	7.99	10832250	10527579	-3
C-28	8.73	10870032	10527579	-3
C-30	9.42	10898670	10527579	-4
C-32	10.05	10806614	10527579	-3
C-34	10.65	10905462	10527579	-4
C-36	11.22	10816377	10527579	-3

Samples

19I0997-02
19I0997-03
19I1079-01
19I1079-02
19I1079-03
19I1079-04
19I1079-06
19I0728-07
19I1044-06
19I1044-05
19I1044-04
19I1044-02

*One compound allowed %D</=50%

C:\MSDCHEM\4\DATA\D092519\D0925006.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0925006.D
Data File Path	C:\MSDCHEM\4\DATA\D092519\
Operator	RMW
Date Acquired	9/25/2019 15:42
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.49	7162618	7697110	7
C-10	2.17	7375024	7697110	4
C-12	3.13	7673291	7697110	0
C-14	3.85	7789263	7697110	-1
C-16	4.46	7868900	7697110	-2
C-18	5.01	7941287	7697110	-3
C-20	5.59	7882812	7697110	-2
C-22	6.31	7839302	7697110	-2
C-24	7.14	7769612	7697110	-1
C-26	7.95	7693247	7697110	0
C-28	8.70	7689882	7697110	0
C-30	9.38	7692537	7697110	0
C-32	10.02	7636913	7697110	1
C-34	10.62	7737200	7697110	-1
C-36	11.19	7704765	7697110	0

Samples

19I1014-01
19I1014-02
19I1014-03
19I1014-04
19I1014-05
19I1014-06
19I0978-03
19I1044-03

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: Simsbury, CT

Project Number: 19I1044

Laboratory Sample ID(s):
19I1044-01 thru 19I1044-08

Sample Date(s):
09/19/2019

List RCP Methods Used:

CTDEP ETPH, SW-846 6020B, SW-846 7470A, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

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: Lisa Worthington **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 09/30/19

Name of Laboratory: Con-Test Analytical Laboratory

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