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 must be completed and included as the cover sheet of your electronic document when uploading a document to the Connecticut SFT website. Requirements for Transmittals through the SFT website:

- Only document types identified in the dropdown lists 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 at Transmittal of Documents

Part I: Primary Recipient*: Remediation Program (* required)

For Remediation documents:	For LUST documents:
Primary Program*: Property Transfer	UST Facility ID: (if applicable)
Rem ID*: 4943	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, etc.)

Part III: Document Information (document type required for appropriate program[s] only)

Remediation*: Monitoring Report
LUST*: LUST Document Type
Date of Document*: 8/8/2022 Version: Final

Part IV: Submitter Information

Name*: Drew Blicharz
E-mail*: drew.blicharz@eversource.com
Name of company/business this document is being submitted on behalf of: *
Eversource Energy Service Company

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street, BMN2
Berlin, CT 06037

August 8, 2022

Ms. Claire Quinn
Remediation Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference: 1) Letter, D. Blicharz to C. Quinn, dated April 29, 2022.
2) Letter (C11330), M. Harder to R. Zaklukiewicz, dated February 26, 2002.

Dear Ms. Quinn:

Groundwater Report – 2nd Quarter 2022
Former Simsbury Area Work Center (Rem ID #4943)
34 Hopmeadow Street, Simsbury, CT

The Connecticut Light and Power Company dba Eversource Energy herein submits quarterly groundwater data for the Former Simsbury Area Work Center.

As documented in the most recent Annual Report (Reference 1), a modification to the groundwater sampling program was proposed by the Licensed Environmental Professional (LEP) retained to provide verification for the investigation and remediation of this site pursuant to CGS Section 22a-133v (Reference 2). Based on this, samples were collected from three monitoring wells including MW-6, MW-101, and MW-102, and analyzed for extractable total petroleum hydrocarbons (ETPH) and volatile organic compounds (VOCs)(MW-102 only). VOCs were not detected in MW-102. ETPH was detected at concentrations that ranged from 170 to 500 micrograms per liter (µg/L). A duplicate groundwater sample (DUP-1) was collected from MW-6 and submitted for quality assurance/quality control (QA/QC) purposes. A groundwater sample was collected from MW-CCA-3 but there was insufficient water for the requested analysis. A groundwater sample could not be collected from MW-4R because it was dry.

In addition, post-remediation groundwater monitoring continued for Area of Potential Environmental Concern #4. Groundwater samples were collected from monitoring wells MW-400, MW-401, MW-402, and MW-403, and analyzed for polychlorinated biphenyls (PCBs) and ETPH. PCBs were not detected. ETPH was detected at concentrations that ranged from 210 to 320 µg/L. A duplicate groundwater sample (DUP-1A) was collected from MW-400 and submitted for QA/QC purposes.

As indicated in the enclosed laboratory analytical data reports, groundwater sample results were generally below the Remediation Standard Regulations Criteria except for ETPH concentrations detected above the Groundwater Protection Criteria (GWPC) and Surface Water Protection Criteria (SWPC) of 250 µg/L in samples collected from monitoring wells MW-102 and MW-401.

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street, BMN2
Berlin, CT 06037

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

Sincerely,
Eversource Energy Service Company

Andrew (Drew) P. Blicharz, LEP, CHMM
Senior Environmental Specialist – Remediation

Enclosure: Laboratory Analytical Testing Results
Cc: Jeffrey Willson, LEP, Weston & Sampson

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July 11, 2022

Laura Yellen
Weston & Sampson
712 Brook Street, Suite 103
Rocky Hill, CT 06067

Project Location: Simsbury, CT
Client Job Number:
Project Number: 2180209
Laboratory Work Order Number: 22F2039

Enclosed are results of analyses for samples as received by the laboratory on June 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kerry K. McGee
Project Manager

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Weston & Sampson
712 Brook Street, Suite 103
Rocky Hill, CT 06067
ATTN: Laura Yellen

REPORT DATE: 7/11/2022

PURCHASE ORDER NUMBER: 11003487

PROJECT NUMBER: 2180209

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22F2039

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

PROJECT LOCATION: Simsbury, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-101	22F2039-01	Ground Water		CTDEP ETPH	
MW-102	22F2039-02	Ground Water		CTDEP ETPH	
				SW-846 8260D	
MW-6	22F2039-03	Ground Water		CTDEP ETPH	
DUP-1	22F2039-05	Ground Water		CTDEP ETPH	

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CASE NARRATIVE SUMMARY

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

SW-846 8260D

Qualifications:

L-03

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22F2039-02[MW-102], B312094-BLK1, B312094-BS1

Naphthalene
22F2039-02[MW-102], B312094-BLK1, B312094-BS1

L-17

Compound classified by CT RCP as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:

Chloromethane
B312094-BS1

V-05

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-CCV1

2,2-Dichloropropane
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-CCV1

Acetone
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-CCV1

Chloromethane
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-CCV1

Naphthalene
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-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
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-CCV1

Chloromethane
22F2039-02[MW-102], B312094-BLK1, B312094-BS1, S073467-CCV1

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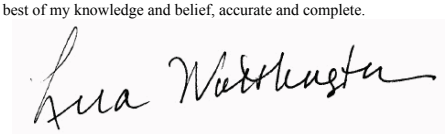
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in 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

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2039

Date Received: 6/30/2022

Field Sample #: MW-101 | Sampled: 6/29/2022 11:55

Sample ID: 22F2039-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.20	0.15	mg/L	1		CTDEP ETPH	7/6/22	7/8/22 23:59	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	62.9	50-150		7/8/22 23:59

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2039

Date Received: 6/30/2022

Field Sample #: MW-102 | Sampled: 6/29/2022 12:20

Sample ID: 22F2039-02

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	V-05	SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Bromomethane	ND	5.0	µg/L	1	V-34	SW-846 8260D	7/1/22	7/2/22 1:42	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Chloromethane	ND	0.60	µg/L	1	V-05, V-34	SW-846 8260D	7/1/22	7/2/22 1:42	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1	V-05	SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2039

Date Received: 6/30/2022

Field Sample #: MW-102 | Sampled: 6/29/2022 12:20

Sample ID: 22F2039-02

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 8260D	7/1/22	7/2/22 1:42	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Naphthalene	ND	2.0	µg/L	1	L-03, V-05	SW-846 8260D	7/1/22	7/2/22 1:42	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	L-03, V-05	SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	7/1/22	7/2/22 1:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.3	70-130		7/2/22 1:42
Toluene-d8	99.0	70-130		7/2/22 1:42
4-Bromofluorobenzene	98.6	70-130		7/2/22 1:42

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2039

Date Received: 6/30/2022

Field Sample #: MW-102 | Sampled: 6/29/2022 12:20

Sample ID: 22F2039-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.50	0.13	mg/L	1		CTDEP ETPH	7/6/22	7/9/22 0:19	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	51.4	50-150		7/9/22 0:19

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2039

Date Received: 6/30/2022

Field Sample #: MW-6 | Sampled: 6/29/2022 13:30

Sample ID: 22F2039-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.22	0.14	mg/L	1		CTDEP ETPH	7/6/22	7/9/22 21:37	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	52.3	50-150		7/9/22 21:37

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2039

Date Received: 6/30/2022

Field Sample #: DUP-1 | Sampled: 6/29/2022 00:00

Sample ID: 22F2039-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.17	0.14	mg/L	1		CTDEP ETPH	7/6/22	7/8/22 23:38	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	54.7	50-150		7/8/22 23:38

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F2039-01 [MW-101]	B312313	1020	1.00	07/06/22
22F2039-02 [MW-102]	B312313	670	0.600	07/06/22
22F2039-03 [MW-6]	B312313	970	0.900	07/06/22
22F2039-05 [DUP-1]	B312313	1040	1.00	07/06/22

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F2039-02 [MW-102]	B312094	5	5.00	07/01/22

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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 B312094 - SW-846 5030B										
Blank (B312094-BLK1)				Prepared: 07/01/22 Analyzed: 07/02/22						
Acetone	ND	10	µg/L							V-05
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	2.0	µg/L							V-34
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							V-05, V-34
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							V-05
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							L-03, V-05
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 B312094 - SW-846 5030B										
Blank (B312094-BLK1)				Prepared: 07/01/22 Analyzed: 07/02/22						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							L-03, V-05
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
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	*21.4*		µg/L	25.0		85.8	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.0	70-130			
LCS (B312094-BS1)				Prepared & Analyzed: 07/01/22						
Acetone	79.2	10	µg/L	100		79.2	40-160			V-05
Acrylonitrile	10.3	2.0	µg/L	10.0		103	70-130			
Benzene	9.56	0.50	µg/L	10.0		95.6	70-130			
Bromobenzene	10.8	0.50	µg/L	10.0		108	70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130			
Bromoform	10.1	0.50	µg/L	10.0		101	70-130			
Bromomethane	12.4	2.0	µg/L	10.0		124	40-160			V-34
2-Butanone (MEK)	83.9	5.0	µg/L	100		83.9	40-160			
n-Butylbenzene	8.58	1.0	µg/L	10.0		85.8	70-130			
sec-Butylbenzene	9.45	1.0	µg/L	10.0		94.5	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Carbon Disulfide	93.8	5.0	µg/L	100		93.8	70-130			
Carbon Tetrachloride	9.15	0.50	µg/L	10.0		91.5	70-130			
Chlorobenzene	10.1	0.50	µg/L	10.0		101	70-130			
Chlorodibromomethane	9.87	0.50	µg/L	10.0		98.7	40-160			
Chloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Chloroform	9.20	0.50	µg/L	10.0		92.0	70-130			
Chloromethane	4.19	0.60	µg/L	10.0		41.9	40-160			L-17, V-05, V-34
2-Chlorotoluene	10.3	0.50	µg/L	10.0		103	70-130			
4-Chlorotoluene	10.2	0.50	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.16	1.0	µg/L	10.0		81.6	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
Dibromomethane	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dichlorobenzene	9.45	0.50	µg/L	10.0		94.5	70-130			
1,3-Dichlorobenzene	9.39	0.50	µg/L	10.0		93.9	70-130			
1,4-Dichlorobenzene	9.50	0.50	µg/L	10.0		95.0	70-130			
trans-1,4-Dichloro-2-butene	9.74	2.0	µg/L	10.0		97.4	70-130			
Dichlorodifluoromethane (Freon 12)	7.60	0.50	µg/L	10.0		76.0	40-160			
1,1-Dichloroethane	10.2	0.50	µg/L	10.0		102	70-130			
1,2-Dichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
1,1-Dichloroethylene	9.61	0.50	µg/L	10.0		96.1	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 B312094 - SW-846 5030B											
LCS (B312094-BS1)				Prepared & Analyzed: 07/01/22							
cis-1,2-Dichloroethylene	9.79	0.50	µg/L	10.0		97.9		70-130			
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103		70-130			
1,2-Dichloropropane	11.8	0.50	µg/L	10.0		118		70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110		70-130			
2,2-Dichloropropane	7.04	0.50	µg/L	10.0		70.4		70-130			V-05
1,1-Dichloropropene	9.84	0.50	µg/L	10.0		98.4		70-130			
cis-1,3-Dichloropropene	9.95	0.50	µg/L	10.0		99.5		70-130			
trans-1,3-Dichloropropene	9.26	0.50	µg/L	10.0		92.6		70-130			
Ethylbenzene	10.2	0.50	µg/L	10.0		102		70-130			
Hexachlorobutadiene	8.24	0.60	µg/L	10.0		82.4		40-160			
2-Hexanone (MBK)	95.5	5.0	µg/L	100		95.5		70-130			
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0		104		70-130			
p-Isopropyltoluene (p-Cymene)	9.78	0.50	µg/L	10.0		97.8		70-130			
Methyl tert-Butyl Ether (MTBE)	9.81	0.50	µg/L	10.0		98.1		70-130			
Methylene Chloride	9.93	5.0	µg/L	10.0		99.3		70-130			
4-Methyl-2-pentanone (MIBK)	102	5.0	µg/L	100		102		40-160			
Naphthalene	6.60	2.0	µg/L	10.0		**66.0**	*	70-130			L-03, V-05
n-Propylbenzene	9.94	1.0	µg/L	10.0		99.4		70-130			
Styrene	10.8	1.0	µg/L	10.0		108		70-130			
1,1,1,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108		70-130			
1,1,2,2-Tetrachloroethane	9.99	0.50	µg/L	10.0		99.9		70-130			
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103		70-130			
Tetrahydrofuran	9.18	10	µg/L	10.0		91.8		70-130			
Toluene	10.3	1.0	µg/L	10.0		103		70-130			
1,2,3-Trichlorobenzene	6.96	1.0	µg/L	10.0		**69.6**	*	70-130			L-03, V-05
1,2,4-Trichlorobenzene	8.12	0.50	µg/L	10.0		81.2		70-130			
1,1,1-Trichloroethane	8.89	0.50	µg/L	10.0		88.9		70-130			
1,1,2-Trichloroethane	10.5	0.50	µg/L	10.0		105		70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110		70-130			
Trichlorofluoromethane (Freon 11)	7.98	2.0	µg/L	10.0		79.8		40-160			
1,2,3-Trichloropropane	10.6	0.50	µg/L	10.0		106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.85	0.50	µg/L	10.0		88.5		70-130			
1,2,4-Trimethylbenzene	9.86	0.50	µg/L	10.0		98.6		70-130			
1,3,5-Trimethylbenzene	10.3	0.50	µg/L	10.0		103		70-130			
Vinyl Chloride	9.72	1.0	µg/L	10.0		97.2		70-130			
m+p Xylene	21.1	2.0	µg/L	20.0		105		70-130			
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130			
Surrogate: 1,2-Dichloroethane-d4	*20.3*		µg/L	25.0		81.3		70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.9		70-130			
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.3		70-130			

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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 B312313 - SW-846 3510C										
Blank (B312313-BLK1)				Prepared: 07/06/22 Analyzed: 07/08/22						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0620*		mg/L	0.100		62.0	50-150			
LCS (B312313-BS1)				Prepared: 07/06/22 Analyzed: 07/08/22						
CT ETPH	0.686	0.15	mg/L	1.00		68.6	60-120			
Surrogate: 2-Fluorobiphenyl	*0.0599*		mg/L	0.100		59.9	50-150			
LCS Dup (B312313-BSD1)				Prepared: 07/06/22 Analyzed: 07/08/22						
CT ETPH	0.646	0.15	mg/L	1.00		64.6	60-120	6.00	30	
Surrogate: 2-Fluorobiphenyl	*0.0549*		mg/L	0.100		54.9	50-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-17	Compound classified by CT RCP as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8260D 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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
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

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22F2039

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Weston and Sampson
Address:	712 Brook St, Rocky Hill, CT
Phone:	
Project Name:	Simsbury AWC
Project Location:	Simsbury, CT
Project Number:	Client PO: 11003487
Project Manager:	Laura Yellen
Pace Quote Name/Number:	
Invoice Recipient:	Drew Blicharz
Sampled By:	Richard Mancinelli

Requested TAT Ground Time: 7-Day ☑ 10-Day ☐ PFAS 10-Day (std) ☐ Due Date:

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

Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter

Orthophosphate Samples: ○ Field Filtered ○ Lab to Filter

Data Delivery: Format: PDF ☑ EXCEL ☑ Other: CLP Like Data Pkg Required: ☐ Email To: yellen1@wseinc.com Fax To #:

PCB ONLY: SOXHLET ☐ NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	ETPH (I)	PAH (I)	VOCs (I/HCl)
1	MW-61	6/29	1155	grab	GW	U		2				X		
2	MW-102	6/29	1220	grab	GW	V	2	2				X		X
3	MW-6	6/29	1330	grab	GW	V		2				X		
4	CCA-3	6/29	900	grab	GW	V		1					X	
5	Dup-1	6/29	—					2				X		

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
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)

Relinquished by: (signature)	Date/Time:
[signature]	6/29/1600
Received by: (signature) WSE Fridge	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature) [signature]	Date/Time: 1127 6/30/22 pm
Relinquished by: (signature) [signature]	Date/Time: 6/30/22 5:05 pm
Received by: (signature) [signature] 6.0	Date/Time: 6/30/1705
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements: MA; CT Deep RSRs; ResDEC; GAPMC; Other

Special Requirements: ☐ MA MCP Required; MCP Certification Form Required; ☑ CT RCP Required; RCP Certification Form Required; ☐ MA State DW Required; PWSID #

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

NELAC and AIHA-LAP, LLC Accredited

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

Other: ☐ Chromatogram ☐ AIHA-LAP,LLC

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

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

Pace

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Doc# 277 Rev 5 2017

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

Client W+S

Received By ORW Date 06/30/22 Time 1705

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

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.0

By Blank # _____ Actual Temp - _____

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

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

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

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

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

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

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? F On COC? F

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	9	1 Liter Plastic		16 oz Amb.	
HCL-	2	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		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\D070822.SEC\D22F189011.D

CT ETPH Discrimination Check

Data File Name D22F189011.D
Data File Path C:\MSDCHEM\4\DATA\D070822.SEC\
Operator TYH
Date Acquired 7/8/1922 19:16
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.67	7238612	8507244	15
C-10	2.31	7680781	8507244	10
C-12	3.24	8081620	8507244	5
C-14	3.96	8287990	8507244	3
C-16	4.57	8522064	8507244	0
C-18	5.12	8667447	8507244	-2
C-20	5.73	8774515	8507244	-3
C-22	6.48	8875485	8507244	-4
C-24	7.32	9036852	8507244	-6
C-26	8.13	9040055	8507244	-6
C-28	8.87	9029627	8507244	-6
C-30	9.55	8963416	8507244	-5
C-32	10.19	8733607	8507244	-3
C-34	10.78	8537029	8507244	0
C-36	11.34	8139559	8507244	4

*One compound allowed %D</=50

Samples
22F2085-03
22F2085-04
22F2085-08
22F2085-05
22F2085-09
22F2085-06
22F2039-05
22F2039-01
22F2039-02
22F2085-01
22F2085-07

C:\MSDChem\4\DATA\D070922\D22F190006.D

CT ETPH Discrimination Check

Data File Name D22F190006.D
Data File Path C:\MSDChem\4\DATA\D070922\
Operator TYH
Date Acquired 7/9/1922 17:45
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.25	7345601	8167334	10
C-10	2.03	7742891	8167334	5
C-12	3.07	7996499	8167334	2
C-14	3.81	8212512	8167334	-1
C-16	4.43	8369234	8167334	-2
C-18	4.98	8383545	8167334	-3
C-20	5.56	8364240	8167334	-2
C-22	6.27	8368194	8167334	-2
C-24	7.10	8453627	8167334	-4
C-26	7.91	8464954	8167334	-4
C-28	8.66	8495545	8167334	-4
C-30	9.35	8518254	8167334	-4
C-32	10.59	8142286	8167334	0
C-34	11.15	7826314	8167334	4
C-36	11.15	7826314	8167334	4

Samples
22F2039-03
22G0233-01
22F1724-09RE1

*One compound allowed %D</=50

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test, a Pace Analytical Laboratory

Client: Weston & Sampson

Project Location: Simsbury, CT

Project Number: 22F2039

Laboratory Sample ID(s):
22F2039-01 thru 22F2039-05

Sample Date(s):
06/29/2022

List RCP Methods Used:
CTDEP ETPH, SW-846 8260D

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:** **07/11/22**

Name of Laboratory: **Con-Test, a Pace Analytical Laboratory**

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

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July 12, 2022

Laura Yellen
Weston & Sampson
712 Brook Street, Suite 103
Rocky Hill, CT 06067

Project Location: Simsbury, CT
Client Job Number:
Project Number: 2180209
Laboratory Work Order Number: 22F2040

Enclosed are results of analyses for samples as received by the laboratory on June 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kerry K. McGee
Project Manager

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Weston & Sampson
712 Brook Street, Suite 103
Rocky Hill, CT 06067
ATTN: Laura Yellen

REPORT DATE: 7/12/2022

PURCHASE ORDER NUMBER: 11003487

PROJECT NUMBER: 2180209

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22F2040

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

PROJECT LOCATION: Simsbury, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-400	22F2040-01	Ground Water		CTDEP ETPH	
				SW-846 8082A	
MW-401	22F2040-02	Ground Water		CTDEP ETPH	
				SW-846 8082A	
MW-402	22F2040-03	Ground Water		CTDEP ETPH	
				SW-846 8082A	
MW-403	22F2040-04	Ground Water		CTDEP ETPH	
				SW-846 8082A	
DUP-1A	22F2040-05	Ground Water		CTDEP ETPH	
				SW-846 8082A	

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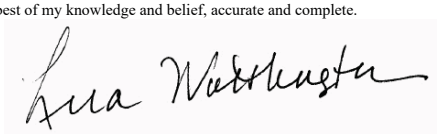
CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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

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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: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-400 | Sampled: 6/29/2022 10:30

Sample ID: 22F2040-01

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	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.9	30-150		7/11/22 16:21
Decachlorobiphenyl [2]	96.8	30-150		7/11/22 16:21
Tetrachloro-m-xylene [1]	69.5	30-150		7/11/22 16:21
Tetrachloro-m-xylene [2]	68.7	30-150		7/11/22 16:21

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-400 | Sampled: 6/29/2022 10:30

Sample ID: 22F2040-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.22	0.15	mg/L	1		CTDEP ETPH	7/6/22	7/9/22 0:19	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	57.4	50-150		7/9/22 0:19

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-401 | Sampled: 6/29/2022 11:20

Sample ID: 22F2040-02

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	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.3	30-150		7/11/22 16:34
Decachlorobiphenyl [2]	92.7	30-150		7/11/22 16:34
Tetrachloro-m-xylene [1]	65.6	30-150		7/11/22 16:34
Tetrachloro-m-xylene [2]	64.9	30-150		7/11/22 16:34

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-401 | Sampled: 6/29/2022 11:20

Sample ID: 22F2040-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.32	0.15	mg/L	1		CTDEP ETPH	7/6/22	7/9/22 1:39	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	56.1	50-150		7/9/22 1:39

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-402 | Sampled: 6/29/2022 09:50

Sample ID: 22F2040-03

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	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1221 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1232 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1242 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1248 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1254 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1260 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1262 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG
Aroclor-1268 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:47	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		7/11/22 16:47
Decachlorobiphenyl [2]	92.3	30-150		7/11/22 16:47
Tetrachloro-m-xylene [1]	65.5	30-150		7/11/22 16:47
Tetrachloro-m-xylene [2]	64.4	30-150		7/11/22 16:47

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-402 | Sampled: 6/29/2022 09:50

Sample ID: 22F2040-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.21	0.15	mg/L	1		CTDEP ETPH	7/6/22	7/8/22 23:38	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	58.4	50-150		7/8/22 23:38

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-403 | Sampled: 6/29/2022 09:15

Sample ID: 22F2040-04

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	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1221 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1232 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1242 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1248 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1254 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1260 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1262 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG
Aroclor-1268 [1]	ND	0.21	µg/L	1		SW-846 8082A	7/6/22	7/11/22 16:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		7/11/22 16:59
Decachlorobiphenyl [2]	83.9	30-150		7/11/22 16:59
Tetrachloro-m-xylene [1]	58.9	30-150		7/11/22 16:59
Tetrachloro-m-xylene [2]	57.6	30-150		7/11/22 16:59

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: MW-403 | Sampled: 6/29/2022 09:15

Sample ID: 22F2040-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.21	0.15	mg/L	1		CTDEP ETPH	7/6/22	7/8/22 23:18	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	57.9	50-150		7/8/22 23:18

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: DUP-1A | Sampled: 6/29/2022 00:00

Sample ID: 22F2040-05

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	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/6/22	7/11/22 17:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.2	30-150		7/11/22 17:12
Decachlorobiphenyl [2]	83.0	30-150		7/11/22 17:12
Tetrachloro-m-xylene [1]	63.4	30-150		7/11/22 17:12
Tetrachloro-m-xylene [2]	60.5	30-150		7/11/22 17:12

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Project Location: Simsbury, CT | Sample Description: | Work Order: 22F2040

Date Received: 6/30/2022

Field Sample #: DUP-1A | Sampled: 6/29/2022 00:00

Sample ID: 22F2040-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.21	0.14	mg/L	1		CTDEP ETPH	7/6/22	7/8/22 23:59	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	59.3	50-150		7/8/22 23:59

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F2040-01 [MW-400]	B312313	1000	1.00	07/06/22
22F2040-02 [MW-401]	B312313	1000	1.00	07/06/22
22F2040-03 [MW-402]	B312313	1000	1.00	07/06/22
22F2040-04 [MW-403]	B312313	1010	1.00	07/06/22
22F2040-05 [DUP-1A]	B312313	1040	1.00	07/06/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F2040-01 [MW-400]	B312324	990	10.0	07/06/22
22F2040-02 [MW-401]	B312324	980	10.0	07/06/22
22F2040-03 [MW-402]	B312324	970	10.0	07/06/22
22F2040-04 [MW-403]	B312324	970	10.0	07/06/22
22F2040-05 [DUP-1A]	B312324	990	10.0	07/06/22

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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 B312324 - SW-846 3510C										
Blank (B312324-BLK1)				Prepared: 07/06/22 Analyzed: 07/11/22						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.25*		µg/L	2.00		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.28*		µg/L	2.00		64.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		µg/L	2.00		55.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		µg/L	2.00		51.7	30-150			
LCS (B312324-BS1)				Prepared: 07/06/22 Analyzed: 07/11/22						
Aroclor-1016	0.32	0.20	µg/L	0.500		64.7	40-140			
Aroclor-1016 [2C]	0.31	0.20	µg/L	0.500		62.1	40-140			
Aroclor-1260	0.36	0.20	µg/L	0.500		72.2	40-140			
Aroclor-1260 [2C]	0.35	0.20	µg/L	0.500		69.9	40-140			
Surrogate: Decachlorobiphenyl	*1.66*		µg/L	2.00		83.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.69*		µg/L	2.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.07*		µg/L	2.00		53.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		µg/L	2.00		50.5	30-150			
LCS Dup (B312324-BSD1)				Prepared: 07/06/22 Analyzed: 07/11/22						
Aroclor-1016	0.35	0.20	µg/L	0.500		70.1	40-140	8.02	20	
Aroclor-1016 [2C]	0.34	0.20	µg/L	0.500		67.2	40-140	7.97	20	
Aroclor-1260	0.39	0.20	µg/L	0.500		77.4	40-140	6.94	20	
Aroclor-1260 [2C]	0.37	0.20	µg/L	0.500		74.0	40-140	5.70	20	
Surrogate: Decachlorobiphenyl	*1.59*		µg/L	2.00		79.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.61*		µg/L	2.00		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.14*		µg/L	2.00		57.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		µg/L	2.00		53.5	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312313 - SW-846 3510C										
Blank (B312313-BLK1)				Prepared: 07/06/22 Analyzed: 07/08/22						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0620*		mg/L	0.100		62.0	50-150			
LCS (B312313-BS1)				Prepared: 07/06/22 Analyzed: 07/08/22						
CT ETPH	0.686	0.15	mg/L	1.00		68.6	60-120			
Surrogate: 2-Fluorobiphenyl	*0.0599*		mg/L	0.100		59.9	50-150			
LCS Dup (B312313-BSD1)				Prepared: 07/06/22 Analyzed: 07/08/22						
CT ETPH	0.646	0.15	mg/L	1.00		64.6	60-120	6.00	30	
Surrogate: 2-Fluorobiphenyl	*0.0549*		mg/L	0.100		54.9	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B312324-BS1 Date(s) Analyzed: 07/11/2022 07/11/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.31	3.2
Aroclor-1260	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.35	2.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B312324-BSD1 Date(s) Analyzed: 07/11/2022 07/11/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.34	2.9
Aroclor-1260	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.37	5.3

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FLAG/QUALIFIER SUMMARY

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in 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

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22F2040

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Doc # 381 Rev 5_07/13/2021

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Fax: 413-525-6405

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Access COC's and Support Requests

Company Name:	Weston and Sampson
Address:	712 Brook St Suite 103, Rocky Hill CT
Phone:	
Project Name:	Simsbury AVC
Project Location:	Simsbury, CT
Project Number:	Client PO: 11003487
Project Manager:	Laura Yellen
Pace Quote Name/Number:	
Invoice Recipient:	Drew Blichar
Sampled By:	Richard Manandhar

Requested Turnaround Time
7-Day ✓ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

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

Data Delivery
Format: PDF ✓ EXCEL ✓
Other:
CLP Like Data Pkg Required: ☐
Email To: yellen1@wseinc.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	PCBs	ETPH
1	MW-400	6/29	1030	grab	GW	U		4				X	X
2	MW-401	6/29	1120	grab	GW	U		4				X	X
3	MW-402	6/29	950	grab	GW	U		4				X	X
4	MW-403	6/29	915	grab	GW	U		4				X	X
5	Dup-1A	6/29	—	grab	GW	U		4				X	X

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
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)

Relinquished by: (signature)	Date/Time:
[signature]	6/29/22 1600
Received by: (signature) WSE Fridge	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature) [signature]	Date/Time: 6/30/22 1:27 pm
Relinquished by: (signature) [signature]	Date/Time: 6/30/22 5:05 pm
Received by: (signature) [signature] 5.6	Date/Time: 6/30 17:05
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
CT: CT Deep RSBs Res DEC
Other: GA DMC

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

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

NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. Th Chain of Custody is a legal document that must be complete and accurate and is used to determine wha analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pa Analytical values your partnership on each project and will try to assist with missing information, but w not be held accountable.

Table of Contents

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

Pace

Pace

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 W+S

Received By CBN Date 06/30/22 Time 1705

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

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 5.6
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F

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

Are there Lab to Filters? 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? F On COC? F
Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	20	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-		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\D070822\D22F189010.D

CT ETPH Discrimination Check

Data File Name D22F189010.D
Data File Path C:\MSDCHEM\4\DATA\D070822\
Operator TYH
Date Acquired 7/8/1922 18:56
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.26	8163022	9093635	10
C-10	2.03	8559957	9093635	6
C-12	3.07	8873579	9093635	2
C-14	3.81	9114156	9093635	0
C-16	4.43	9309841	9093635	-2
C-18	4.98	9296023	9093635	-2
C-20	5.56	9264034	9093635	-2
C-22	6.28	9248264	9093635	-2
C-24	7.10	9335585	9093635	-3
C-26	7.91	9340975	9093635	-3
C-28	8.66	9408965	9093635	-3
C-30	9.35	9453408	9093635	-4
C-32	10.59	9220369	9093635	-1
C-34	11.16	8908172	9093635	2
C-36	11.16	8908172	9093635	2

Samples

22G0024-07
22G0024-08
22F2071-06
22F2071-05
22F2040-04
22F2040-03
22F2040-05
22F2040-01
22F2071-02
22F2071-03
22F2071-04
22F2040-02

*One compound allowed %D</=50

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test, a Pace Analytical Laboratory

Client: Weston & Sampson

Project Location: Simsbury, CT

Project Number: 22F2040

Laboratory Sample ID(s):
22F2040-01 thru 22F2040-05

Sample Date(s):
06/29/2022

List RCP Methods Used:
CTDEP ETPH, SW-846 8082A

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

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

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:** **07/12/22**

Name of Laboratory: **Con-Test, a Pace Analytical Laboratory**

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