



ANALYTICAL REPORT

Lab Number:	L2305930
Client:	White Water Inc. 41 Central St Auburn, MA 01501
ATTN:	Robert Wittenzellner
Phone:	(508) 888-3540
Project Name:	REGION 18
Project Number:	CT1050492
Report Date:	02/07/23

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2305930-01	WELL 3	WATER	OLD LYME	02/02/23 11:15	02/02/23
L2305930-02	WELL 4	WATER	OLD LYME	02/02/23 11:25	02/02/23
L2305930-03	WELL 5	WATER	OLD LYME	02/02/23 11:35	02/02/23
L2305930-04	WELL 7	WATER	OLD LYME	02/02/23 11:45	02/02/23

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Case Narrative (continued)

Report Submission

February 07, 2023: This final report includes the results of all requested analyses.

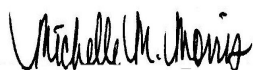
February 07, 2023: This is a preliminary report.

Volatile Organics by Method 524.2

The WG1741362-3 LCS recovery, associated with L2305930-01 through -04, is above the acceptance criteria for dichlorodifluoromethane (150%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 02/07/23

ORGANICS

VOLATILES

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-01

Date Collected: 02/02/23 11:15

Client ID: WELL 3

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 16,524.2

Analytical Date: 02/03/23 17:10

Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	ND		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-01

Date Collected: 02/02/23 11:15

Client ID: WELL 3

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Xylenes, Total ¹	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-01

Date Collected: 02/02/23 11:15

Client ID: WELL 3

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	108		80-120
4-Bromofluorobenzene	94		80-120

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-02

Date Collected: 02/02/23 11:25

Client ID: WELL 4

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 16,524.2

Analytical Date: 02/03/23 17:40

Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	ND		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-02

Date Collected: 02/02/23 11:25

Client ID: WELL 4

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Xylenes, Total ¹	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-02

Date Collected: 02/02/23 11:25

Client ID: WELL 4

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	108		80-120
4-Bromofluorobenzene	96		80-120

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-03

Date Collected: 02/02/23 11:35

Client ID: WELL 5

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 16,524.2

Analytical Date: 02/03/23 18:11

Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	ND		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-03

Date Collected: 02/02/23 11:35

Client ID: WELL 5

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Xylenes, Total ¹	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-03

Date Collected: 02/02/23 11:35

Client ID: WELL 5

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	107		80-120
4-Bromofluorobenzene	96		80-120

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-04

Date Collected: 02/02/23 11:45

Client ID: WELL 7

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 16,524.2

Analytical Date: 02/03/23 18:41

Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	ND		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-04

Date Collected: 02/02/23 11:45

Client ID: WELL 7

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Xylenes, Total ¹	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1

Project Name: REGION 18

Lab Number: L2305930

Project Number: CT1050492

Report Date: 02/07/23

SAMPLE RESULTS

Lab ID: L2305930-04

Date Collected: 02/02/23 11:45

Client ID: WELL 7

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	108		80-120
4-Bromofluorobenzene	97		80-120

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 16,524.2
Analytical Date: 02/03/23 10:32
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1741362-4					
Dichlorodifluoromethane	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	0.50	--
Vinyl chloride	ND		ug/l	0.50	--
Bromomethane	ND		ug/l	0.50	--
Chloroethane	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	0.50	--
1,1-Dichloroethene	ND		ug/l	0.50	--
Methylene chloride	ND		ug/l	0.50	--
Methyl tert butyl ether	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.50	--
1,1-Dichloroethane	ND		ug/l	0.50	--
2,2-Dichloropropane	ND		ug/l	0.50	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Chloroform	ND		ug/l	0.50	--
Bromochloromethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.50	--
1,3-Dichloropropane	ND		ug/l	0.50	--

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Method Blank Analysis Batch Quality Control

Analytical Method: 16,524.2
 Analytical Date: 02/03/23 10:32
 Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1741362-4					
Tetrachloroethene	ND		ug/l	0.50	--
Dibromochloromethane	ND		ug/l	0.50	--
1,2-Dibromoethane	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Ethylbenzene	ND		ug/l	0.50	--
p/m-Xylene	ND		ug/l	0.50	--
o-Xylene	ND		ug/l	0.50	--
Xylenes, Total ¹	ND		ug/l	0.50	--
Styrene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	0.50	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
1,2,3-Trichloropropane	ND		ug/l	0.50	--
n-Propylbenzene	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	0.50	--
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--
o-Chlorotoluene	ND		ug/l	0.50	--
p-Chlorotoluene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	0.50	--
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
1,3-Dichlorobenzene	ND		ug/l	0.50	--
1,4-Dichlorobenzene	ND		ug/l	0.50	--
n-Butylbenzene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	0.50	--
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 16,524.2
 Analytical Date: 02/03/23 10:32
 Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1741362-4					
Hexachlorobutadiene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	104		80-120
4-Bromofluorobenzene	97		80-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1741362-3								
Dichlorodifluoromethane	150	Q	-		70-130	-		20
Chloromethane	105		-		70-130	-		20
Vinyl chloride	102		-		70-130	-		20
Bromomethane	90		-		70-130	-		20
Chloroethane	92		-		70-130	-		20
Trichlorofluoromethane	85		-		70-130	-		20
1,1-Dichloroethene	80		-		70-130	-		20
Methylene chloride	105		-		70-130	-		20
Methyl tert butyl ether	102		-		70-130	-		20
trans-1,2-Dichloroethene	98		-		70-130	-		20
1,1-Dichloroethane	105		-		70-130	-		20
2,2-Dichloropropane	115		-		70-130	-		20
cis-1,2-Dichloroethene	102		-		70-130	-		20
Chloroform	102		-		70-130	-		20
Bromochloromethane	105		-		70-130	-		20
1,1,1-Trichloroethane	92		-		70-130	-		20
1,1-Dichloropropene	98		-		70-130	-		20
Carbon tetrachloride	98		-		70-130	-		20
1,2-Dichloroethane	102		-		70-130	-		20
Benzene	98		-		70-130	-		20
Trichloroethene	95		-		70-130	-		20
1,2-Dichloropropane	100		-		70-130	-		20
Bromodichloromethane	92		-		70-130	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1741362-3								
Dibromomethane	102		-		70-130	-		20
cis-1,3-Dichloropropene	88		-		70-130	-		20
Toluene	95		-		70-130	-		20
trans-1,3-Dichloropropene	88		-		70-130	-		20
1,1,2-Trichloroethane	98		-		70-130	-		20
1,3-Dichloropropane	98		-		70-130	-		20
Tetrachloroethene	95		-		70-130	-		20
Dibromochloromethane	88		-		70-130	-		20
1,2-Dibromoethane	92		-		70-130	-		20
Chlorobenzene	102		-		70-130	-		20
1,1,1,2-Tetrachloroethane	98		-		70-130	-		20
Ethylbenzene	102		-		70-130	-		20
p/m-Xylene	106		-		70-130	-		20
o-Xylene	102		-		70-130	-		20
Styrene	102		-		70-130	-		20
Isopropylbenzene	100		-		70-130	-		20
Bromoform	92		-		70-130	-		20
1,1,2,2-Tetrachloroethane	108		-		70-130	-		20
1,2,3-Trichloropropane	110		-		70-130	-		20
n-Propylbenzene	105		-		70-130	-		20
Bromobenzene	108		-		70-130	-		20
1,3,5-Trimethylbenzene	100		-		70-130	-		20
o-Chlorotoluene	108		-		70-130	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1741362-3								
p-Chlorotoluene	108		-		70-130	-		20
tert-Butylbenzene	108		-		70-130	-		20
1,2,4-Trimethylbenzene	105		-		70-130	-		20
sec-Butylbenzene	105		-		70-130	-		20
p-Isopropyltoluene	102		-		70-130	-		20
1,3-Dichlorobenzene	105		-		70-130	-		20
1,4-Dichlorobenzene	105		-		70-130	-		20
n-Butylbenzene	105		-		70-130	-		20
1,2-Dichlorobenzene	105		-		70-130	-		20
1,2-Dibromo-3-chloropropane	108		-		70-130	-		20
1,2,4-Trichlorobenzene	105		-		70-130	-		20
Hexachlorobutadiene	105		-		70-130	-		20
Naphthalene	100		-		70-130	-		20
1,2,3-Trichlorobenzene	105		-		70-130	-		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichlorobenzene-d4	103				80-120
4-Bromofluorobenzene	100				80-120

Matrix Spike Analysis

Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-6 QC Sample: L2305511-01 Client ID: MS Sample												
Dichlorodifluoromethane	ND	4	6.5	163	Q	-	-		70-130	-		20
Chloromethane	ND	4	4.6	115		-	-		70-130	-		20
Vinyl chloride	ND	4	4.4	110		-	-		70-130	-		20
Bromomethane	ND	4	3.5	88		-	-		70-130	-		20
Chloroethane	ND	4	3.9	98		-	-		70-130	-		20
Trichlorofluoromethane	ND	4	3.6	90		-	-		70-130	-		20
1,1-Dichloroethene	ND	4	3.6	90		-	-		70-130	-		20
Methylene chloride	ND	4	4.4	110		-	-		70-130	-		20
Methyl tert butyl ether	ND	4	4.0	100		-	-		70-130	-		20
trans-1,2-Dichloroethene	ND	4	4.8	120		-	-		70-130	-		20
1,1-Dichloroethane	ND	4	4.5	113		-	-		70-130	-		20
2,2-Dichloropropane	ND	4	3.6	90		-	-		70-130	-		20
cis-1,2-Dichloroethene	ND	4	4.4	110		-	-		70-130	-		20
Chloroform	ND	4	4.6	115		-	-		70-130	-		20
Bromochloromethane	ND	4	4.5	113		-	-		70-130	-		20
1,1,1-Trichloroethane	ND	4	4.0	100		-	-		70-130	-		20
1,1-Dichloropropene	ND	4	4.0	100		-	-		70-130	-		20
Carbon tetrachloride	ND	4	4.1	103		-	-		70-130	-		20
1,2-Dichloroethane	ND	4	4.2	105		-	-		70-130	-		20
Benzene	ND	4	4.3	108		-	-		70-130	-		20
Trichloroethene	ND	4	4.2	105		-	-		70-130	-		20
1,2-Dichloropropane	ND	4	4.1	103		-	-		70-130	-		20
Bromodichloromethane	ND	4	3.8	95		-	-		70-130	-		20
Dibromomethane	ND	4	4.1	103		-	-		70-130	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-6 QC Sample: L2305511-01 Client ID: MS Sample												
cis-1,3-Dichloropropene	ND	4	3.2	80		-	-		70-130	-		20
Toluene	ND	4	3.8	95		-	-		70-130	-		20
trans-1,3-Dichloropropene	ND	4	3.1	78		-	-		70-130	-		20
1,1,2-Trichloroethane	ND	4	4.1	103		-	-		70-130	-		20
1,3-Dichloropropane	ND	4	4.0	100		-	-		70-130	-		20
Tetrachloroethene	ND	4	4.1	103		-	-		70-130	-		20
Dibromochloromethane	ND	4	3.4	85		-	-		70-130	-		20
1,2-Dibromoethane	ND	4	3.7	92		-	-		70-130	-		20
Chlorobenzene	ND	4	4.3	108		-	-		70-130	-		20
1,1,1,2-Tetrachloroethane	ND	4	3.9	98		-	-		70-130	-		20
Ethylbenzene	ND	4	4.3	108		-	-		70-130	-		20
p/m-Xylene	ND	8	9.0	113		-	-		70-130	-		20
o-Xylene	ND	4	4.2	105		-	-		70-130	-		20
Styrene	ND	4	4.3	108		-	-		70-130	-		20
Isopropylbenzene	ND	4	4.3	108		-	-		70-130	-		20
Bromoform	ND	4	3.4	85		-	-		70-130	-		20
1,1,2,2-Tetrachloroethane	ND	4	4.4	110		-	-		70-130	-		20
1,2,3-Trichloropropane	ND	4	4.5	113		-	-		70-130	-		20
n-Propylbenzene	ND	4	4.4	110		-	-		70-130	-		20
Bromobenzene	ND	4	4.5	113		-	-		70-130	-		20
1,3,5-Trimethylbenzene	ND	4	4.2	105		-	-		70-130	-		20
o-Chlorotoluene	ND	4	4.6	115		-	-		70-130	-		20
p-Chlorotoluene	ND	4	4.5	113		-	-		70-130	-		20
tert-Butylbenzene	ND	4	4.4	110		-	-		70-130	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-6 QC Sample: L2305511-01 Client ID: MS Sample												
1,2,4-Trimethylbenzene	ND	4	4.4	110		-	-		70-130	-		20
sec-Butylbenzene	ND	4	4.3	108		-	-		70-130	-		20
p-Isopropyltoluene	ND	4	4.3	108		-	-		70-130	-		20
1,3-Dichlorobenzene	ND	4	4.4	110		-	-		70-130	-		20
1,4-Dichlorobenzene	ND	4	4.4	110		-	-		70-130	-		20
n-Butylbenzene	ND	4	4.3	108		-	-		70-130	-		20
1,2-Dichlorobenzene	ND	4	4.3	108		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	4	3.5	88		-	-		70-130	-		20
1,2,4-Trichlorobenzene	ND	4	4.0	100		-	-		70-130	-		20
Hexachlorobutadiene	ND	4	4.3	108		-	-		70-130	-		20
Naphthalene	ND	4	3.8	95		-	-		70-130	-		20
1,2,3-Trichlorobenzene	ND	4	4.2	105		-	-		70-130	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	102				80-120
4-Bromofluorobenzene	101				80-120

Lab Duplicate Analysis Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-5 QC Sample: L2305922-01 Client ID: DUP Sample						
Dichlorodifluoromethane	ND	ND	ug/l	NC		20
Chloromethane	ND	ND	ug/l	NC		20
Vinyl chloride	ND	ND	ug/l	NC		20
Bromomethane	ND	ND	ug/l	NC		20
Chloroethane	ND	ND	ug/l	NC		20
Trichlorofluoromethane	ND	ND	ug/l	NC		20
1,1-Dichloroethene	ND	ND	ug/l	NC		20
Methylene chloride	ND	ND	ug/l	NC		20
Methyl tert butyl ether	ND	ND	ug/l	NC		20
trans-1,2-Dichloroethene	ND	ND	ug/l	NC		20
1,1-Dichloroethane	ND	ND	ug/l	NC		20
2,2-Dichloropropane	ND	ND	ug/l	NC		20
cis-1,2-Dichloroethene	ND	ND	ug/l	NC		20
Chloroform	ND	ND	ug/l	NC		20
Bromochloromethane	ND	ND	ug/l	NC		20
1,1,1-Trichloroethane	ND	ND	ug/l	NC		20
1,1-Dichloropropene	ND	ND	ug/l	NC		20
Carbon tetrachloride	ND	ND	ug/l	NC		20
1,2-Dichloroethane	ND	ND	ug/l	NC		20
Benzene	ND	ND	ug/l	NC		20
Trichloroethene	ND	ND	ug/l	NC		20

Lab Duplicate Analysis Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-5 QC Sample: L2305922-01 Client ID: DUP Sample						
1,2-Dichloropropane	ND	ND	ug/l	NC		20
Bromodichloromethane	ND	ND	ug/l	NC		20
Dibromomethane	ND	ND	ug/l	NC		20
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		20
Toluene	2.2	2.3	ug/l	4		20
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		20
1,1,2-Trichloroethane	ND	ND	ug/l	NC		20
1,3-Dichloropropane	ND	ND	ug/l	NC		20
Tetrachloroethene	ND	ND	ug/l	NC		20
Dibromochloromethane	ND	ND	ug/l	NC		20
1,2-Dibromoethane	ND	ND	ug/l	NC		20
Chlorobenzene	ND	ND	ug/l	NC		20
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC		20
Ethylbenzene	ND	ND	ug/l	NC		20
p/m-Xylene	ND	ND	ug/l	NC		20
o-Xylene	ND	ND	ug/l	NC		20
Styrene	ND	ND	ug/l	NC		20
Isopropylbenzene	ND	ND	ug/l	NC		20
Bromoform	ND	ND	ug/l	NC		20
Xylene (Total) ¹	ND	ND	ug/l	NC		20
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		20

Lab Duplicate Analysis Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-5 QC Sample: L2305922-01 Client ID: DUP Sample						
1,2,3-Trichloropropane	ND	ND	ug/l	NC		20
1,3-Dichloropropene, Total	ND	ND	ug/l	NC		20
n-Propylbenzene	ND	ND	ug/l	NC		20
Trihalomethanes, Total	ND	ND	ug/l	NC		20
Bromobenzene	ND	ND	ug/l	NC		20
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC		20
o-Chlorotoluene	ND	ND	ug/l	NC		20
p-Chlorotoluene	ND	ND	ug/l	NC		20
tert-Butylbenzene	ND	ND	ug/l	NC		20
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC		20
sec-Butylbenzene	ND	ND	ug/l	NC		20
p-Isopropyltoluene	ND	ND	ug/l	NC		20
1,3-Dichlorobenzene	ND	ND	ug/l	NC		20
1,4-Dichlorobenzene	ND	ND	ug/l	NC		20
n-Butylbenzene	ND	ND	ug/l	NC		20
1,2-Dichlorobenzene	ND	ND	ug/l	NC		20
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC		20
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC		20
Hexachlorobutadiene	ND	ND	ug/l	NC		20
Naphthalene	ND	ND	ug/l	NC		20
1,2,3-Trichlorobenzene	ND	ND	ug/l	NC		20

Project Name: REGION 18

Project Number: CT1050492

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2305930

Report Date: 02/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1741362-5 QC Sample: L2305922-01 Client ID: DUP Sample						

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	106		106		80-120
4-Bromofluorobenzene	97		96		80-120

SEMIVOLATILES

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-01

Date Collected: 02/02/23 11:15

Client ID: WELL 3

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 79,8270E-SIM

Extraction Date: 02/03/23 14:49

Analytical Date: 02/05/23 18:39

Analyst: JJW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
CT RCP PAHs by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
Fluoranthene	ND		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	ND		ug/l	0.05	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	ND		ug/l	0.05	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	ND		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.05	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		30-130
2-Fluorobiphenyl	61		30-130
4-Terphenyl-d14	59		30-130

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-02

Date Collected: 02/02/23 11:25

Client ID: WELL 4

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 79,8270E-SIM

Extraction Date: 02/03/23 14:49

Analytical Date: 02/06/23 12:33

Analyst: JJW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
CT RCP PAHs by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
Fluoranthene	ND		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	ND		ug/l	0.05	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	ND		ug/l	0.05	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	ND		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.05	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		30-130
2-Fluorobiphenyl	65		30-130
4-Terphenyl-d14	57		30-130

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-03

Date Collected: 02/02/23 11:35

Client ID: WELL 5

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 79,8270E-SIM

Extraction Date: 02/03/23 14:49

Analytical Date: 02/05/23 19:12

Analyst: JJW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
CT RCP PAHs by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
Fluoranthene	ND		ug/l	0.10	--	1
Naphthalene	0.26		ug/l	0.10	--	1
Benzo(a)anthracene	ND		ug/l	0.05	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	ND		ug/l	0.05	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	ND		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.05	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	0.11		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	110		30-130
2-Fluorobiphenyl	73		30-130
4-Terphenyl-d14	71		30-130

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-04

Date Collected: 02/02/23 11:45

Client ID: WELL 7

Date Received: 02/02/23

Sample Location: OLD LYME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 79,8270E-SIM

Extraction Date: 02/03/23 14:49

Analytical Date: 02/05/23 19:29

Analyst: JJW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
CT RCP PAHs by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	--	1
Fluoranthene	0.13		ug/l	0.10	--	1
Naphthalene	0.10		ug/l	0.10	--	1
Benzo(a)anthracene	0.12		ug/l	0.05	--	1
Benzo(a)pyrene	ND		ug/l	0.10	--	1
Benzo(b)fluoranthene	0.19		ug/l	0.05	--	1
Benzo(k)fluoranthene	0.16		ug/l	0.10	--	1
Chrysene	0.15		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	0.14		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	ND		ug/l	0.05	--	1
Dibenzo(a,h)anthracene	0.15		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	0.16		ug/l	0.10	--	1
Pyrene	0.11		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	119		30-130
2-Fluorobiphenyl	78		30-130
4-Terphenyl-d14	80		30-130

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Method Blank Analysis Batch Quality Control

Analytical Method: 79,8270E-SIM
Analytical Date: 02/05/23 18:22
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 02/03/23 14:49

Parameter	Result	Qualifier	Units	RL	MDL
CT RCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-04 Batch: WG1740705-1					
Acenaphthene	ND		ug/l	0.10	--
Fluoranthene	ND		ug/l	0.10	--
Naphthalene	ND		ug/l	0.10	--
Benzo(a)anthracene	ND		ug/l	0.05	--
Benzo(a)pyrene	ND		ug/l	0.10	--
Benzo(b)fluoranthene	ND		ug/l	0.05	--
Benzo(k)fluoranthene	ND		ug/l	0.10	--
Chrysene	ND		ug/l	0.10	--
Acenaphthylene	ND		ug/l	0.10	--
Anthracene	ND		ug/l	0.10	--
Benzo(ghi)perylene	ND		ug/l	0.10	--
Fluorene	ND		ug/l	0.10	--
Phenanthrene	ND		ug/l	0.05	--
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--
Pyrene	ND		ug/l	0.10	--
2-Methylnaphthalene	ND		ug/l	0.10	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		30-130
2-Fluorobiphenyl	66		30-130
4-Terphenyl-d14	73		30-130

Lab Control Sample Analysis Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
CT RCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1740705-2 WG1740705-3								
Acenaphthene	55		61		40-140	10		20
Fluoranthene	60		64		40-140	6		20
Naphthalene	53		67		40-140	23	Q	20
Benzo(a)anthracene	60		68		40-140	13		20
Benzo(a)pyrene	61		68		40-140	11		20
Benzo(b)fluoranthene	63		75		40-140	17		20
Benzo(k)fluoranthene	62		72		40-140	15		20
Chrysene	62		67		40-140	8		20
Acenaphthylene	59		66		40-140	11		20
Anthracene	60		66		40-140	10		20
Benzo(ghi)perylene	62		64		40-140	3		20
Fluorene	58		65		40-140	11		20
Phenanthrene	58		64		40-140	10		20
Dibenzo(a,h)anthracene	67		70		40-140	4		20
Indeno(1,2,3-cd)pyrene	68		73		40-140	7		20
Pyrene	61		64		40-140	5		20
2-Methylnaphthalene	54		65		40-140	18		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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CT RCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1740705-2 WG1740705-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	85		97		30-130
2-Fluorobiphenyl	58		65		30-130
4-Terphenyl-d14	66		70		30-130

PETROLEUM HYDROCARBONS

Project Name: REGION 18**Project Number:** CT1050492**Lab Number:** L2305930**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-01

Client ID: WELL 3

Sample Location: OLD LYME

Date Collected: 02/02/23 11:15

Date Received: 02/02/23

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 11,3-99

Analytical Date: 02/04/23 16:07

Analyst: CRE

Extraction Method: EPA 3510C

Extraction Date: 02/03/23 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
ETPH-CT	ND		ug/l	200	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	80			50-150		

Project Name: REGION 18**Project Number:** CT1050492**Lab Number:** L2305930**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-02

Client ID: WELL 4

Sample Location: OLD LYME

Date Collected: 02/02/23 11:25

Date Received: 02/02/23

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 11,3-99

Analytical Date: 02/07/23 17:38

Analyst: MC

Extraction Method: EPA 3510C

Extraction Date: 02/07/23 11:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
ETPH-CT	ND		ug/l	200	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	63			50-150		

Project Name: REGION 18**Project Number:** CT1050492**Lab Number:** L2305930**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-03

Client ID: WELL 5

Sample Location: OLD LYME

Date Collected: 02/02/23 11:35

Date Received: 02/02/23

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 11,3-99

Analytical Date: 02/04/23 16:56

Analyst: CRE

Extraction Method: EPA 3510C

Extraction Date: 02/03/23 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
ETPH-CT	ND		ug/l	200	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	76			50-150		

Project Name: REGION 18**Project Number:** CT1050492**Lab Number:** L2305930**Report Date:** 02/07/23**SAMPLE RESULTS**

Lab ID: L2305930-04

Client ID: WELL 7

Sample Location: OLD LYME

Date Collected: 02/02/23 11:45

Date Received: 02/02/23

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 11,3-99

Analytical Date: 02/04/23 17:21

Analyst: CRE

Extraction Method: EPA 3510C

Extraction Date: 02/03/23 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
ETPH-CT	ND		ug/l	200	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	72			50-150		

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Method Blank Analysis Batch Quality Control

Analytical Method: 11,3-99
 Analytical Date: 02/04/23 14:21
 Analyst: CRE

Extraction Method: EPA 3510C
 Extraction Date: 02/03/23 16:39

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01,03-04 Batch: WG1740747-1					
ETPH-CT	ND		ug/l	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		50-150

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 11,3-99
 Analytical Date: 02/07/23 15:58
 Analyst: MC

Extraction Method: EPA 3510C
 Extraction Date: 02/07/23 11:35

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 02 Batch: WG1741764-1					
ETPH-CT	ND		ug/l	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	53		50-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1740747-2								
ETPH-CT	62		-		60-120	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	67				50-150

Lab Control Sample Analysis Batch Quality Control

Project Name: REGION 18

Project Number: CT1050492

Lab Number: L2305930

Report Date: 02/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 Batch: WG1741764-2								
ETPH-CT	80		-		60-120	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	60				50-150

Project Name: REGION 18**Lab Number:** L2305930**Project Number:** CT1050492**Report Date:** 02/07/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

NO

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2305930-01A	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-01B	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-01D	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-01E	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-01F	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)
L2305930-01G	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)
L2305930-02A	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-02B	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-02D	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-02E	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-02F	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)
L2305930-02G	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)
L2305930-03A	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-03B	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-03D	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-03E	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-03F	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)
L2305930-03G	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)
L2305930-04A	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-04B	Vial HCl preserved	A	NA		3.8	Y	Absent		524.2(14)
L2305930-04D	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-04E	Amber 250ml unpreserved	A	7	7	3.8	Y	Absent		CT-PAHSIM-LVI(7)
L2305930-04F	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)

Project Name: REGION 18
Project Number: CT1050492

Serial_No:02072319:45
Lab Number: L2305930
Report Date: 02/07/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2305930-04G	Amber 1000ml unpreserved	A	7	7	3.8	Y	Absent		ETPH(7)

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: REGION 18
Project Number: CT1050492

Lab Number: L2305930
Report Date: 02/07/23

REFERENCES

- 11 Analysis of Extractable Petroleum Hydrocarbons (ETPH) Using Methylene Chloride Gas Chromatograph/Flame Ionization Detection. Environmental Research Institute, University of Connecticut. March 1999.
- 16 Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.
- 79 Connecticut DEP Quality Assurance and Quality Control Requirements for SW-846 Methods. CTDEP Reasonable Confidence Protocols (RCPs). Versions 2.0 and 3.0, July and December 2006.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Page 56 of 58

ETPH Mass Discrimination Check Form

Instrument ID: Petro 17
 Lab File Path: I:\PETRO\Petro17\230204.SEC\ETPH\
 Lab File ID: P1723020401.D
 Injection date: 2/4/2023 12:24

	RF	%D
ETPH (C9-C36)	76.44	-
Nonane	75.63	-1.06
Decane	76.47	0.04
Dodecane	76.48	0.05
Tetradecane	74.73	-2.24
Hexadecane	76.60	0.21
Octadecane	78.44	2.62
Eicosane	75.94	-0.66
Docosane	75.10	-1.75
Tetracosane	74.92	-2.00
Hexacosane	75.02	-1.86
Octacosane	75.53	-1.19
triacontane	76.98	0.71
Dotriacontane	77.31	1.14
Tetratriacontane	78.77	3.04
Hexatriacontane	78.69	2.94

Associated Samples: WG1740747-1
 WG1740747-2
 WG1740747-4
 WG1740747-5
 L2200056-32
 L2305930-01
 L2305930-03
 L2305930-04

ETPH Mass Discrimination Check Form

Instrument ID: Petro 17a
 Lab File Path: I:\PETRO\Petro17\230207\ETPH\
 Lab File ID: P1723020706.d
 Injection date: 2/7/2023 10:52

	RF	%D
ETPH (C9-C36)	75.11	-
Nonane	68.52	-8.77
Decane	71.49	-4.83
Dodecane	72.16	-3.94
Tetradecane	70.95	-5.54
Hexadecane	72.50	-3.48
Octadecane	74.15	-1.28
Eicosane	71.64	-4.62
Docosane	71.80	-4.41
Tetracosane	71.85	-4.35
Hexacosane	72.30	-3.75
Octacosane	73.00	-2.82
triacontane	75.66	0.73
Dotriacontane	79.18	5.41
Tetratriacontane	87.26	16.17
Hexatriacontane	94.27	25.5

Associated Samples: wg1741764-2
 wg1741764-1
 L2200056-102
 wg1741764-3
 wg1741764-4
 L2305930-02