
Maine Environmental Laboratory

1 Main Street, Yarmouth, ME 04096 Tel.: 207-846-6569 FAX: 207-846-9066 Email: melab@mel-lab.com

Report of Analyses

Report Prepared for:

Scott Reed
 ND Paper - Rumford Division
 35 Hartford Street
 Rumford, ME 04276

Report Information:

Batch ID: RCG 19318
 Report ID: 19318-241217-1111

The complete report consists of the following parts:

Maine Environmental Laboratory report
 Chain of Custody form
 Alpha Analytical report

REPORT NARRATIVE:

Enclosed are results of the analyses for your samples as received by the laboratory. Results are for the exclusive use of the client named on the report and will not be released to a third party without written consent. This report shall not be reproduced except in full without the written consent of the laboratory.

Maine Environmental Laboratory is accredited by the States of Maine (Cert. #ME00028) and New Hampshire (NH ELAP) (Cert. #2031) and is TNI/NELAP accredited. Please refer to our website www.maineenvironmentallaboratory.com for a copy of our Maine and NH ELAP certificates and accredited parameters. When a subcontracted laboratory is listed above, the data produced is by a Maine accredited laboratory accredited for the fields of testing performed.

Unless otherwise noted:

- Samples were received in acceptable condition and analyzed within method hold times.
- Soils, sediments, solids and tissues are reported on dry weight basis. Wipes are reported on an "as received" basis.
- All quality control data demonstrated acceptable limits
- The results reported herein conform to the most current NELAP standards where applicable.
- Analysis of solids for pH, flash point, ignitability, paint filter, corrosivity, conductivity and specific gravity are reported on an "as received" basis.
- Results for "immediate" field parameters tested at the lab such as pH were run outside of the EPA-recommended hold time.
- %RPD is not calculated when the native sample concentration is below 5 x LOQ.

DEFINITIONS:

LOQ / RL - The Limit of Quantitation / Reporting Limit is the minimum level for reporting quantitative data.

LOD / MDL - The Limit of Detection / Method Detection Limit is the minimum level for reporting estimated data.

J - Data reported between the Limit of Quantitation and Limit of Detection is J-flagged as "estimated."

ND or U - Not detected below the LOD / MDL

B - Detected in QC blank

S - Detection Limits increased due to sample matrix

4X - Native sample concentration was greater than 4 times the spike concentration so the spike added could not be distinguished from the native concentration.

% Rec - Percent Recovery; RPD - Relative Percent Difference

D - Duplicate sample

R - Reanalysis

DO - BOD: insufficient dissolved oxygen depletion to calculate Matrix Spike and MSD recoveries.

METHOD REFERENCES:

SW9040C: SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, third edition. Updates I-IV, 2007.

This report has been reviewed and authorized by
 Jacquelyn R. Villinski, Laboratory Director:

Jacquelyn R. Villinski

Maine Environmental Laboratory**Report of Analyses**

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Report ID: 19318-241217-1111

Sample ID: 3 FIELDS

Batch ID: RCG 19318

Sample date: 12/10/24

16:16

Date received: 12/11/24

Sample matrix: SNW

Project ID: No data

Laboratory ID: 241211O001

Parameter	Results	Units	Date		LOD	LOQ	Method	Tech
			Analyzed	Time Analyzed				
pH @ 25°C	9.22	STU	12/12/24	11:45		0.01	SW9040C	SEA

Notes:

Maine Environmental Laboratory**Report of Analyses**

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Report ID: 19318-241217-1111
 Batch ID: RCG 19318
 Date received: 12/11/24
 Project ID: No data

Sample ID: RES BIRCH
 Sample date: 12/10/24 16:26
 Sample matrix: SNW
 Laboratory ID: 241211O002

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
pH @ 25°C	6.92	STU	12/12/24	11:45		0.01	SW9040C	SEA

Notes:

Maine Environmental Laboratory**Report of Analyses**

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Report ID: 19318-241217-1111
 Batch ID: RCG 19318
 Date received: 12/11/24
 Project ID: No data

Sample ID: RES Playground
 Sample date: 12/10/24 16:29
 Sample matrix: SNW
 Laboratory ID: 241211O003

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
pH @ 25°C	6.72	STU	12/12/24	11:45		0.01	SW9040C	SEA

Notes:

Maine Environmental Laboratory**Report of Analyses**

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 35 Hartford Street
 Rumford, ME 04276

Report ID: 19318-241217-1111
 Batch ID: RCG 19318
 Date received: 12/11/24
 Project ID: No data

Sample ID: SPRUCE ST.
 Sample date: 12/10/24 16:39
 Sample matrix: SNW
 Laboratory ID: 241211O004

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
pH @ 25°C	6.62	STU	12/12/24	11:45		0.01	SW9040C	SEA

Notes:

Maine Environmental Laboratory

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Report ID: 19318-241217-1111

QC Data Method Blanks, Laboratory Control Samples, Sample QC

Analyte	QCType	Result	Value	Units	Max	Min	Reference	Ref. Value	Units	Lab SampleID
pH @ 25°C	Duplicate - pH	RPD	0.0	%	5		Conc	9.21	STU	241211O004
pH @ 25°C	LCS - pH 3.00	Rec	99	%	103	97	pH	2.98	STU	
pH @ 25°C	LCS - pH 5.00	Rec	100	%	103	97	pH	5.01	STU	
pH @ 25°C	LCS - pH 9.00	Rec	99	%	103	97	pH	8.95	STU	

Maine Environmental Lab
 1 Main St
 Yarmouth, ME 04096

Chain of Custody Form

Page 1 of 1

REC 1918

Customer Information

Purchase Order: _____
 Work Order: _____
 Company Name: _____
 Send Report To: Scott Reed
 Address: _____
 City/State/Zip: _____
 Phone: _____
 Fax: _____
 e-Mail Address: _____

Project Information

Project Name: _____
 Project Number: _____
 Bill To Company: _____
 Invoice Attn.: _____
 Address: _____
 City/State/Zip: _____
 Phone: _____
 Fax: _____

ALS Project Manager: _____

ALS Work Order #: _____

Parameter/Method Request for Analysis

A	8	RCRA metals (Totals)	plus Sodium
B			PH
C			
D			
E			
F			
G			
H			
I			
J			

Sample Description

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3 FIELDS	12/10/24	16:16	Liq		1	✓	✓									
2	RES BIRCH	12/10/24	16:26	Liq		1	✓	✓									
3	RES Playground	12/10/24	16:29	Liq		1	✓	✓									
4	SPRUCE ST.	12/10/24	16:39	Liq		1	✓	✓									

Sampler(s): Please Print & Sign

Robert K Dixon *[Signature]*

Shipment Method:

Turnaround Time: (Business Days)
 10 BD 5 BD 3 BD Other _____

Results Due Date: _____

Relinquished by:

[Signature]

Date: 12/11/24
 Time: 12:38

Received by: *[Signature]*

Date: 12-11-24
 Time: 12:38

Notes: _____

Date: 12-11-24
 Time: 2:19 PM

Received by (Laboratory): *[Signature]*

Date: 12/11/24
 Time: 1419

Notes: _____

Logged by (Laboratory):

[Signature]

Checked by (Laboratory): *[Signature]*

Notes: _____

Preservative Key:

- 1-HCl
- 2-HNO₃
- 3-H₂SO₄
- 4-NaOH
- 5-Na₂S₂O₃
- 6-NaHSO₄
- 7-Other
- 8-4°C

ALS Cooler ID: _____

Cooler Temp: _____

QC Package: (Check Box Below)
 Level II: Standard Qd
 TRRP LRC
 Level IV: SW846 Methods/CLP like
 TRRP Level IV
 Other: _____

Note: Any changes must be made in writing on samples and COC Form have been submitted.



ANALYTICAL REPORT

Lab Number:	L2472949
Client:	Maine Environmental Labs One Main Street Yarmouth, ME 04096
ATTN:	Jackie Villinski
Phone:	(207) 846-6569
Project Name:	RCG 19318
Project Number:	RCG 19318
Report Date:	12/16/24

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: RCG 19318**Project Number:** RCG 19318**Lab Number:** L2472949**Report Date:** 12/16/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2472949-01	3 FIELDS	WATER	Not Specified	12/10/24 16:16	12/12/24
L2472949-02	RES BIRCH	WATER	Not Specified	12/10/24 16:26	12/12/24
L2472949-03	RES PLAYGROUND	WATER	Not Specified	12/10/24 16:29	12/12/24
L2472949-04	SPRUCE ST	WATER	Not Specified	12/10/24 16:39	12/12/24

Project Name: RCG 19318**Lab Number:** L2472949**Project Number:** RCG 19318**Report Date:** 12/16/24

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: RCG 19318**Lab Number:** L2472949**Project Number:** RCG 19318**Report Date:** 12/16/24**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2472949-01, -02, -03, and -04: The sample was received above the appropriate pH for the Total Metals analysis. The laboratory added additional HNO₃ to a pH <2.

Total Metals

L2472949-01: The sample has an elevated detection limit for all elements due to the prep dilution required by the limited sample volume available for digestion.

L2472949-02: The sample has an elevated detection limit for all elements, with the exception of mercury, due to the prep dilution required by the limited sample volume available for digestion.

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:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 12/16/24

METALS



Project Name: RCG 19318

Lab Number: L2472949

Project Number: RCG 19318

Report Date: 12/16/24

SAMPLE RESULTS

Lab ID: L2472949-01
 Client ID: 3 FIELDS
 Sample Location: Not Specified

Date Collected: 12/10/24 16:16
 Date Received: 12/12/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.0500	0.0190	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Barium, Total	ND		mg/l	0.100	0.0210	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0500	0.0100	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.100	0.0210	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.100	0.0270	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Mercury, Total	0.00117		mg/l	0.00100	0.00045	1	12/16/24 10:15	12/16/24 14:07	EPA 7470A	1,7470A	JWN
Selenium, Total	ND		mg/l	0.100	0.0350	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0700	0.0280	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC
Sodium, Total	30.1		mg/l	20.0	1.20	1	12/16/24 09:40	12/16/24 16:18	EPA 3005A	1,6010D	DMC



Project Name: RCG 19318
Project Number: RCG 19318

Lab Number: L2472949
Report Date: 12/16/24

SAMPLE RESULTS

Lab ID: L2472949-02
 Client ID: RES BIRCH
 Sample Location: Not Specified

Date Collected: 12/10/24 16:26
 Date Received: 12/12/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.0100	0.0038	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Barium, Total	0.0136	J	mg/l	0.0200	0.0042	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0200	0.0042	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0200	0.0054	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Mercury, Total	0.00160		mg/l	0.00020	0.00009	1	12/16/24 10:15	12/16/24 14:11	EPA 7470A	1,7470A	JWN
Selenium, Total	ND		mg/l	0.0200	0.0070	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0140	0.0056	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC
Sodium, Total	51.2		mg/l	4.00	0.240	1	12/16/24 09:40	12/16/24 16:23	EPA 3005A	1,6010D	DMC



Project Name: RCG 19318

Lab Number: L2472949

Project Number: RCG 19318

Report Date: 12/16/24

SAMPLE RESULTS

Lab ID: L2472949-03
 Client ID: RES PLAYGROUND
 Sample Location: Not Specified

Date Collected: 12/10/24 16:29
 Date Received: 12/12/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Barium, Total	0.0027	J	mg/l	0.0100	0.0021	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Mercury, Total	0.00056		mg/l	0.00020	0.00009	1	12/16/24 10:15	12/16/24 14:14	EPA 7470A	1,7470A	JWN
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC
Sodium, Total	8.59		mg/l	2.00	0.120	1	12/16/24 09:40	12/16/24 16:27	EPA 3005A	1,6010D	DMC



Project Name: RCG 19318
Project Number: RCG 19318

Lab Number: L2472949
Report Date: 12/16/24

SAMPLE RESULTS

Lab ID: L2472949-04
 Client ID: SPRUCE ST
 Sample Location: Not Specified

Date Collected: 12/10/24 16:39
 Date Received: 12/12/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Barium, Total	0.0023	J	mg/l	0.0100	0.0021	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Mercury, Total	0.00044		mg/l	0.00020	0.00009	1	12/16/24 10:15	12/16/24 14:17	EPA 7470A	1,7470A	JWN
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC
Sodium, Total	3.02		mg/l	2.00	0.120	1	12/16/24 09:40	12/16/24 16:31	EPA 3005A	1,6010D	DMC



Project Name: RCG 19318
Project Number: RCG 19318

Lab Number: L2472949
Report Date: 12/16/24

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2009533-1									
Arsenic, Total	ND	mg/l	0.0050	0.0019	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Barium, Total	ND	mg/l	0.0100	0.0021	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Cadmium, Total	ND	mg/l	0.0050	0.0010	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Chromium, Total	ND	mg/l	0.0100	0.0021	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Lead, Total	ND	mg/l	0.0100	0.0027	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Selenium, Total	ND	mg/l	0.0100	0.0035	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Silver, Total	ND	mg/l	0.0070	0.0028	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF
Sodium, Total	ND	mg/l	2.00	0.120	1	12/16/24 09:40	12/16/24 14:09	1,6010D	JMF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2009534-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	12/16/24 10:15	12/16/24 13:44	1,7470A	JWN

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis
Batch Quality Control

Project Name: RCG 19318
Project Number: RCG 19318

Lab Number: L2472949
Report Date: 12/16/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2009533-2								
Arsenic, Total	99		-		80-120	-		
Barium, Total	118		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Chromium, Total	104		-		80-120	-		
Lead, Total	104		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	116		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2009534-2								
Mercury, Total	105		-		80-120	-		



Project Name: RCG 19318

Lab Number: L2472949

Project Number: RCG 19318

Report Date: 12/16/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472949-01A	Amber 1L unpreserved	B	6	6	5.0	Y	Absent		ARCHIVE()
L2472949-01B	Plastic 250ml HNO3 preserved split	B	6	<2	5.0	N	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),NA-TI(180),CD-TI(180)
L2472949-02A	Amber 1L unpreserved	B	6	6	5.0	Y	Absent		ARCHIVE()
L2472949-02B	Plastic 250ml HNO3 preserved split	B	6	<2	5.0	N	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180),NA-TI(180)
L2472949-03A	Amber 1L unpreserved	B	6	6	5.0	Y	Absent		ARCHIVE()
L2472949-03B	Plastic 250ml HNO3 preserved split	B	6	<2	5.0	N	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180),NA-TI(180)
L2472949-04A	Amber 1L unpreserved	B	6	6	5.0	Y	Absent		ARCHIVE()
L2472949-04B	Plastic 250ml HNO3 preserved split	B	6	<2	5.0	N	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days



Project Name: RCG 19318**Lab Number:** L2472949**Project Number:** RCG 19318**Report Date:** 12/16/24

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: DU Report with 'J' Qualifiers

Project Name: RCG 19318**Lab Number:** L2472949**Project Number:** RCG 19318**Report Date:** 12/16/24**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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: RCG 19318
Project Number: RCG 19318

Lab Number: L2472949
Report Date: 12/16/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.)

Report Format: DU Report with 'J' Qualifiers



Project Name: RCG 19318**Lab Number:** L2472949**Project Number:** RCG 19318**Report Date:** 12/16/24

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Facility: **Northeast**

Revision 23

Department: **Quality Assurance**

Published Date: 12/09/2024

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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 Project Manager.

L2472949

16DEC24

MEL



Maine Environmental Laboratory - Subcontract Chain of Custody

Report To: J. Villinski

Email: sub-lab-reports@mel-lab.com

Phone: (207) 846-6569

Project: RCG 19318

Requested Due Date: ~~12/23/2024~~

RUSH Please - 2 business days

Project	Customer Sample ID	Matrix	Collected	Notes
RCG	19318	3 FIELDS	SNW 12/10/2024 16:16	
	Metals - subcontracted			
		<i>RCRA 8 + sodium</i>		<i>preserve at lab</i>
RCG	19318	RES BIRCH	SNW 12/10/2024 16:26	
	Metals - subcontracted			
RCG	19318	RES Playground	SNW 12/10/2024 16:29	
	Metals - subcontracted			
RCG	19318	SPRUCE ST.	SNW 12/10/2024 16:39	
	Metals - subcontracted			

Limited volume on all - please call if there are any issues.

Report Format & Comments:

Quote:

Standard *JV*

Level II QC

ME EGAD EDD

EDD Project Name:

NH DES EMD EDD

[Signature] 12/12/24 11:58 *[Signature]* Rec'd 12/12/24 11:50

Relinquished Date, Time Received

[Signature] *Pace* 12/12/24 16:50 *[Signature]* 12/12/24 16:10

Relinquished Date, Time Received

[Signature] 12/12/24 13:45 *[Signature]*

Relinquished Date, Time Received