
Maine Environmental Laboratory

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

Report of Analyses

Report Prepared for:

Bud Brown
ECO-Analysts, Inc.
P.O. Box 224
Bath, ME 04530

Report Information:

Batch ID: ONE 7771
Report ID: 7771-200723-1156
Date of Issue: July 23, 2020

The complete report consists of the following parts:

Maine Environmental Laboratory report
Chain of Custody form
Alpha Analytical report
Eastern Analytical, Inc. report
Pace 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.

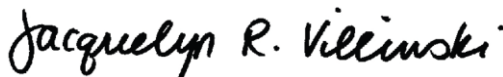
DEFINITIONS:

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
D1 - Relative Percent Difference (RPD) cannot be calculated because the sample result was below the LOQ.
D2 - Native sample concentration was less than 5 times the LOQ. RPD acceptance range is \pm LOQ.
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

METHOD REFERENCES:

SM2540G: Standard Methods for the Examination of Water and Wastewater, 18th edition, APHA,AWWA,WPCF, 1992.
SW3050B: SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, third edition. Updates I-IV, 2007.
SW6010B: SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, third edition. Updates I-IV, 2007.
SW7471B: 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:



Maine Environmental Laboratory

Report of Analyses

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 ECO-Analysts, Inc.
 P.O. Box 224
 Bath, ME 04530

July 23, 2020

Report ID: 7771-200723-1156
 Batch ID: ONE 7771
 Date received: 07/15/20
 Project ID: Yachting Solutions

Sample ID: A1
 Sample date: 07/14/20 9:30
 Sample matrix: SD - grab
 Laboratory ID: 200715J001

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
Total Solids	74.22	%	07/16/20	16:00		0.01	SM2540G	DJC
Arsenic, total	20	mg/kg	07/21/20	7:55	0.41	1.4	SW3050B/SW6010B	DWS
Cadmium, total	0.81 J	mg/kg	07/21/20	7:55	0.41	1.4	SW3050B/SW6010B	DWS
Chromium, total	63	mg/kg	07/21/20	7:55	1.4	4.1	SW3050B/SW6010B	DWS
Lead, total	12	mg/kg	07/21/20	7:55	1.4	4.1	SW3050B/SW6010B	DWS
Mercury, total	0.10	mg/kg	07/15/20	14:55	0.027	0.068	SW7471B	DWS

Notes:

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July 23, 2020

Report ID: 7771-200723-1156
 Batch ID: ONE 7771
 Date received: 07/15/20
 Project ID: Yachting Solutions

Sample ID: A2
 Sample date: 07/14/20 10:15
 Sample matrix: SD - grab
 Laboratory ID: 200715J002

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
Total Solids	77.33	%	07/16/20	16:00		0.01	SM2540G	DJC
Arsenic, total	28	mg/kg	07/21/20	7:55	0.39	1.3	SW3050B/SW6010B	DWS
Cadmium, total	1.1 J	mg/kg	07/21/20	7:55	0.39	1.3	SW3050B/SW6010B	DWS
Chromium, total	70	mg/kg	07/21/20	7:55	1.3	3.9	SW3050B/SW6010B	DWS
Lead, total	6.6	mg/kg	07/21/20	7:55	1.3	3.9	SW3050B/SW6010B	DWS
Mercury, total	ND	mg/kg	07/15/20	14:55	0.026	0.065	SW7471B	DWS

Notes:

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July 23, 2020

Report ID: 7771-200723-1156
 Batch ID: ONE 7771
 Date received: 07/15/20
 Project ID: Yachting Solutions

Sample ID: B1
 Sample date: 07/14/20 10:45
 Sample matrix: SD - grab
 Laboratory ID: 200715J003

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
Total Solids	77.42	%	07/16/20	16:00		0.01	SM2540G	DJC
Arsenic, total	17	mg/kg	07/21/20	7:55	0.39	1.3	SW3050B/SW6010B	DWS
Cadmium, total	1.0 J	mg/kg	07/21/20	7:55	0.39	1.3	SW3050B/SW6010B	DWS
Chromium, total	60	mg/kg	07/21/20	7:55	1.3	3.9	SW3050B/SW6010B	DWS
Lead, total	4.8	mg/kg	07/21/20	7:55	1.3	3.9	SW3050B/SW6010B	DWS
Mercury, total	0.027 J	mg/kg	07/15/20	14:55	0.026	0.065	SW7471B	DWS

Notes:

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July 23, 2020

Report ID: 7771-200723-1156
 Batch ID: ONE 7771
 Date received: 07/15/20
 Project ID: Yachting Solutions

Sample ID: B2
 Sample date: 07/14/20 11:30
 Sample matrix: SD - grab
 Laboratory ID: 200715J004

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
Total Solids	74.49	%	07/16/20	16:00		0.01	SM2540G	DJC
Arsenic, total	20	mg/kg	07/21/20	7:55	0.4	1.3	SW3050B/SW6010B	DWS
Cadmium, total	1.1 J	mg/kg	07/21/20	7:55	0.4	1.3	SW3050B/SW6010B	DWS
Chromium, total	59	mg/kg	07/21/20	7:55	1.3	4	SW3050B/SW6010B	DWS
Lead, total	6.7	mg/kg	07/21/20	7:55	1.3	4	SW3050B/SW6010B	DWS
Mercury, total	ND	mg/kg	07/15/20	14:55	0.027	0.067	SW7471B	DWS

Notes:

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July 23, 2020

Report ID: 7771-200723-1156
 Batch ID: ONE 7771
 Date received: 07/15/20
 Project ID: Yachting Solutions

Sample ID: B3
 Sample date: 07/14/20 12:00
 Sample matrix: SD - grab
 Laboratory ID: 200715J005

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
Total Solids	75.71	%	07/16/20	16:00		0.01	SM2540G	DJC
Arsenic, total	17	mg/kg	07/21/20	7:55	0.4	1.3	SW3050B/SW6010B	DWS
Cadmium, total	1.2 J	mg/kg	07/21/20	7:55	0.4	1.3	SW3050B/SW6010B	DWS
Chromium, total	59	mg/kg	07/21/20	7:55	1.3	4	SW3050B/SW6010B	DWS
Lead, total	5.3	mg/kg	07/21/20	7:55	1.3	4	SW3050B/SW6010B	DWS
Mercury, total	ND	mg/kg	07/15/20	14:55	0.026	0.066	SW7471B	DWS

Notes:

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July 23, 2020

Report ID: 7771-200723-1156
 Batch ID: ONE 7771
 Date received: 07/15/20
 Project ID: Yachting Solutions

Sample ID: B4
 Sample date: 07/14/20 12:30
 Sample matrix: SD - composite
 Laboratory ID: 200715J006

Parameter	Results	Units	Date Analyzed	Time Analyzed	LOD	LOQ	Method	Tech
Total Solids	76.87	%	07/16/20	16:00		0.01	SM2540G	DJC
Arsenic, total	19	mg/kg	07/21/20	7:55	0.39	1.3	SW3050B/SW6010B	DWS
Cadmium, total	0.79 J	mg/kg	07/21/20	7:55	0.39	1.3	SW3050B/SW6010B	DWS
Chromium, total	60	mg/kg	07/21/20	7:55	1.3	3.9	SW3050B/SW6010B	DWS
Lead, total	6.0	mg/kg	07/21/20	7:55	1.3	3.9	SW3050B/SW6010B	DWS
Mercury, total	ND	mg/kg	07/15/20	14:55	0.026	0.065	SW7471B	DWS

Notes:

Maine Environmental Laboratory**Report of Analyses**

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 P.O. Box 224
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Date of Issue: 7/23/2020**Report ID:** 7771-200723-1156

QC Data

Method Blanks, Laboratory Control Samples, Sample QC

Analyte	QCType	Result	Value	Units	Max	Min	Reference	Ref. Value	Units	Lab SampleID
Arsenic, total	Duplicate - S	RPD	1.0	%	31		Concentration	17	mg/kg	200715J005
Arsenic, total	LCS - S	Recovery	94	%	131	69	Concentration	24.26	mg/kg	
Arsenic, total	LCS - S	Recovery	95	%	131	69	Concentration	24.57	mg/kg	
Arsenic, total	Matrix Spike - S	Recovery	93	%	126	74				200715J001
Arsenic, total	Method Blank - S	Concentration	0 U	mg/kg	1.4					
Arsenic, total	Method Blank - S	Concentration	0 U	mg/kg	1.4					
Cadmium, total	Duplicate - S	RPD	D1	%	31		Concentration	1.1	mg/kg	200715J005
Cadmium, total	LCS - S	Recovery	92	%	131	69	Concentration	93.62	mg/kg	
Cadmium, total	LCS - S	Recovery	96	%	131	69	Concentration	97.22	mg/kg	
Cadmium, total	Matrix Spike - S	Recovery	77	%	126	74				200715J001
Cadmium, total	Method Blank - S	Concentration	0.010 U	mg/kg	1.4					
Cadmium, total	Method Blank - S	Concentration	0.19 U	mg/kg	1.4					
Chromium, total	Duplicate - S	RPD	0.0	%	31		Concentration	59	mg/kg	200715J005
Chromium, total	LCS - S	Recovery	97	%	131	69	Concentration	66.86	mg/kg	
Chromium, total	LCS - S	Recovery	102	%	131	69	Concentration	70.35	mg/kg	
Chromium, total	Matrix Spike - S	Recovery	98	%	126	74				200715J001
Chromium, total	Method Blank - S	Concentration	0.070 U	mg/kg	3.4					
Chromium, total	Method Blank - S	Concentration	0 U	mg/kg	3.4					
Lead, total	Duplicate - S	RPD	D2	%	31		Concentration	5.2	mg/kg	200715J005
Lead, total	LCS - S	Recovery	100	%	131	69	Concentration	106.6	mg/kg	
Lead, total	LCS - S	Recovery	101	%	131	69	Concentration	107.8	mg/kg	
Lead, total	Matrix Spike - S	Recovery	82	%	126	74				200715J001
Lead, total	Method Blank - S	Concentration	0.050 U	mg/kg	3.4					
Lead, total	Method Blank - S	Concentration	0 U	mg/kg	3.4					
Mercury, total	Duplicate - S	RPD	D1	%	31		Concentration	0.047	mg/kg	200715J003
Mercury, total	LCS - S	Recovery	109	%	131	69	Concentration	1.63	mg/kg	
Mercury, total	LCS - S	Recovery	108	%	131	69	Concentration	1.08	mg/kg	
Mercury, total	LCS - S	Recovery	90	%	131	69	Concentration	0.451	mg/kg	

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Date of Issue: 7/23/2020**Report ID:** 7771-200723-1156

QC Data

Method Blanks, Laboratory Control Samples, Sample QC

Analyte	QCType	Result	Value	Units	Max	Min	Reference	Ref. Value	Units	Lab SampleID
Mercury, total	Matrix Spike - S	Recovery	99	%	121	79				200715J001
Mercury, total	Method Blank - S	Concentration	0 U	mg/kg	0.054					
Total Solids	Duplicate - S %	RPD	1.0	%	6		Concentration	73.66	%	200715J001
Total Solids	LCS - S	Recovery	100	%	121	79	Concentration	50	mg/kg	
Total Solids	Method Blank - S	Concentration	0 U	mg/kg	0.014			0.01		



MAINE ENVIRONMENTAL LABORATORY - Chain of Custody
 One Main Street Yarmouth, ME 04096-6716 Tel: (207) 846-6569 Fax: (207) 846-9066
 Email: melab@mel-lab.com Web: MaineEnvironmentalLaboratory.com

REPORT TO: Bud Brown EMAIL: rapta@egui.net TELEPHONE: 207-837-2442
 COMPANY: ECO-ANALYST INC BILL TO / PURCHASE ORDER #: ECO

ADDRESS: P.O. Box 224, Bath, ME 04530

PROJECT NAME: Yachting Solutions SAMPLER NAME: Bud QUOTE #:

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE TYPE	GRAB	COMP.	METHOD PRESERVED	SAMPLING		ANALYSES	LABORATORY REPORT #	
			YES	NO					DATE	TIME			
A1	3	G 2oz	X		Sediment	X		EGC	7/15	9:30	X AS, Cd, Cr, Pb, Hg, TS X SVOC - PAH compounds X PCB X Hexavalent Chromium X Dioxin TEQ X Extra for TCLP	2007155001	
	1	4oz											
	1	4oz											
A2	3	G 2oz				X			10:15			2007155002	
	1	G 2oz				X							
	1	G 2oz				X							
B1	3	G 2oz				X			10:45			2007155003	
	1	G 2oz				X							
	1	G 2oz				X							
B2	3	G 2oz				X			11:30			2007155004	
	1	G 2oz				X							
	1	G 2oz				X							

TURNAROUND REQUEST: Standard SAME DEP EDD STU TOX Priority (SURCHARGE) DW Compliance (sent to State) CC Results to

REPORTING REQUIREMENTS? Standard Report SAME DEP EDD STU TOX DW Compliance (sent to State) CC Results to

COMMENTS:

RECEIVED BY: [Signature] DATE: 7/15 TIME: 8:30

RECEIVED BY LABORATORY: [Signature] DATE: 7-15-20 TIME: 8:30

MEL reserves the right to subcontract analyses at MEL's discretion.



MAINE ENVIRONMENTAL LABORATORY - Chain of Custody
 One Main Street Yarmouth, ME 04096-6716 Tel: (207) 846-6569 Fax: (207) 846-9066
 Email: melab@mel-lab.com Web: MaineEnvironmentalLaboratory.com

ANALYSES
Specify Required Method

LABORATORY REPORT # ONE-7771
 SAMPLE RECEIVING

REPORT TO: Paul Brown EMAIL: rapthor@guin.net TELEPHONE: 207

COMPANY: ECCO - ANALYST, INC BILL TO / PURCHASE ORDER #: ECCO

ADDRESS: P.O. Box 224, Bath, ME 04530

PROJECT NAME: Yachting Solutions SAMPLER NAME: Bad QUOTE #:

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE TYPE	GRAB	COMP.	METHOD PRESERVED	SAMPLING		RECEIVED BY:	RECEIVED BY LABORATORY:	LAB ID/SUBCONTRACTOR
			YES	NO					DATE	TIME			
B3	3	8oz	X		Solvent	X		≤60C	7/15	12:00	X	X	2007155005
	1	4oz											
	1	4oz											
B4	3	8oz				X				12:30	X	X	2007155006
	1	4oz											
	1	4oz											

As, Cd, Cr, Pb, Hg, T5
 SVOC - PAHs
 PCB
 Hexavalent Chromium
 Dioxin TEQ
 Extrafor TCLP

TURNAROUND REQUEST: Standard ME DEP EDD STUTOX
 Priority (SURCHARGE) DW Compliance (sent to State)
 CC Results to

REPORTING REQUIREMENTS?
 Standard Report STUTOX
 ME DEP EDD DW Compliance (sent to State)
 CC Results to

COMMENTS: MEL reserves the right to subcontract analyses at MEL's discretion.

RELINQUISHED BY SAMPLER: [Signature] DATE: 7/15 TIME: 8:00 RECEIVED BY: [Signature]
 RELINQUISHED BY: [Signature] DATE: 7-15-20 TIME: 0830 RECEIVED BY LABORATORY: [Signature]

FOR LAB USE ONLY



ANALYTICAL REPORT

Lab Number:	L2029811
Client:	Maine Environmental Labs One Main Street Yarmouth, ME 04096
ATTN:	Jackie Villinski
Phone:	(207) 846-6569
Project Name:	YACHTING SOLUTIONS
Project Number:	ONE 7771
Report Date:	08/06/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical 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-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: YACHTING SOLUTIONS**Project Number:** ONE 7771**Lab Number:** L2029811**Report Date:** 08/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2029811-01	A1	SEDIMENT	Not Specified	07/14/20 09:30	07/15/20
L2029811-02	A2	SEDIMENT	Not Specified	07/14/20 10:15	07/15/20
L2029811-03	B1	SEDIMENT	Not Specified	07/14/20 10:45	07/15/20
L2029811-04	B2	SEDIMENT	Not Specified	07/14/20 11:30	07/15/20
L2029811-05	B3	SEDIMENT	Not Specified	07/14/20 12:00	07/15/20
L2029811-06	B4	SEDIMENT	Not Specified	07/14/20 12:30	07/15/20

Project Name: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

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: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

Case Narrative (continued)

Hexavalent Chromium

The WG1393615-4 Insoluble MS recovery for chromium, hexavalent (73%), performed on L2029811-01, is outside the acceptance criteria. The Soluble MS recovery (42%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 76%.

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:  Kelly Stenstrom

Title: Technical Director/Representative

Date: 08/06/20

INORGANICS & MISCELLANEOUS

Project Name: YACHTING SOLUTIONS

Lab Number: L2029811

Project Number: ONE 7771

Report Date: 08/06/20

SAMPLE RESULTS

Lab ID: L2029811-01

Date Collected: 07/14/20 09:30

Client ID: A1

Date Received: 07/15/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.1		%	0.100	NA	1	-	07/16/20 13:44	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.12	--	1	07/18/20 08:40	07/19/20 12:12	1,7196A	MA



Project Name: YACHTING SOLUTIONS

Lab Number: L2029811

Project Number: ONE 7771

Report Date: 08/06/20

SAMPLE RESULTS

Lab ID: L2029811-02

Date Collected: 07/14/20 10:15

Client ID: A2

Date Received: 07/15/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.1		%	0.100	NA	1	-	07/16/20 13:44	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.08	--	1	07/18/20 08:40	07/19/20 12:12	1,7196A	MA



Project Name: YACHTING SOLUTIONS

Lab Number: L2029811

Project Number: ONE 7771

Report Date: 08/06/20

SAMPLE RESULTS

Lab ID: L2029811-03

Date Collected: 07/14/20 10:45

Client ID: B1

Date Received: 07/15/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	07/16/20 13:44	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.04	--	1	07/18/20 08:40	07/19/20 12:13	1,7196A	MA



Project Name: YACHTING SOLUTIONS**Lab Number:** L2029811**Project Number:** ONE 7771**Report Date:** 08/06/20**SAMPLE RESULTS**

Lab ID: L2029811-04

Date Collected: 07/14/20 11:30

Client ID: B2

Date Received: 07/15/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	07/16/20 13:44	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.07	--	1	07/18/20 08:40	07/19/20 12:13	1,7196A	MA



Project Name: YACHTING SOLUTIONS

Lab Number: L2029811

Project Number: ONE 7771

Report Date: 08/06/20

SAMPLE RESULTS

Lab ID: L2029811-05

Date Collected: 07/14/20 12:00

Client ID: B3

Date Received: 07/15/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.2		%	0.100	NA	1	-	07/16/20 13:44	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.09	--	1	07/18/20 08:40	07/19/20 12:13	1,7196A	MA



Project Name: YACHTING SOLUTIONS

Lab Number: L2029811

Project Number: ONE 7771

Report Date: 08/06/20

SAMPLE RESULTS

Lab ID: L2029811-06

Date Collected: 07/14/20 12:30

Client ID: B4

Date Received: 07/15/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.0		%	0.100	NA	1	-	07/16/20 13:44	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.08	--	1	07/18/20 08:40	07/19/20 12:14	1,7196A	MA



Project Name: YACHTING SOLUTIONS

Lab Number: L2029811

Project Number: ONE 7771

Report Date: 08/06/20

**Method Blank Analysis
Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1393615-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	07/18/20 08:40	07/19/20 12:03	1,7196A	MA



Lab Control Sample Analysis Batch Quality Control

Project Name: YACHTING SOLUTIONS

Project Number: ONE 7771

Lab Number: L2029811

Report Date: 08/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1393615-2								
Chromium, Hexavalent	95		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1393615-4 QC Sample: L2029811-01 Client ID: A1												
Chromium, Hexavalent	ND	1170	856	73	Q	-	-		75-125	-		20



Lab Duplicate Analysis
Batch Quality Control

Project Name: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1393615-6 QC Sample: L2029811-01 Client ID: A1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20



Project Name: YACHTING SOLUTIONS

Project Number: ONE 7771

Serial_No:08062017:37

Lab Number: L2029811

Report Date: 08/06/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

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(*)
L2029811-01A	Bag	A	NA		2.3	Y	Absent		ME-TS-2540(7),HEXCR-7196(30)
L2029811-02A	Bag	A	NA		2.3	Y	Absent		ME-TS-2540(7),HEXCR-7196(30)
L2029811-03A	Bag	A	NA		2.3	Y	Absent		ME-TS-2540(7),HEXCR-7196(30)
L2029811-04A	Bag	A	NA		2.3	Y	Absent		ME-TS-2540(7),HEXCR-7196(30)
L2029811-05A	Bag	A	NA		2.3	Y	Absent		ME-TS-2540(7),HEXCR-7196(30)
L2029811-06A	Bag	A	NA		2.3	Y	Absent		ME-TS-2540(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

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.
- 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.

Footnotes

Report Format: Data Usability Report



Project Name: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

- 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.

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'.

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. If a 'Total' result is requested, the results of its individual components will also be reported.

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.)

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. (DoD and NYSDEC Part 375 PFAS only.)
- 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.
- 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

Report Format: Data Usability Report



Project Name: YACHTING SOLUTIONS**Lab Number:** L2029811**Project Number:** ONE 7771**Report Date:** 08/06/20**Data Qualifiers**

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.

Report Format: Data Usability Report



Project Name: YACHTING SOLUTIONS
Project Number: ONE 7771

Lab Number: L2029811
Report Date: 08/06/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



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

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; 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.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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.**

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.

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.



MAINE ENVIRONMENTAL LABORATORY- Chain of Custody

One Main Street Yarmouth, ME 04096-6716 Tel: (207) 846-6569 Fax: (207) 846-9066
 Email: melab@mel-lab.com Web: MaineEnvironmentalLaboratory.com

ANALYSES

Specify Required Method

FOR LAB USE ONLY

LABORATORY REPORT #

SAMPLE RECEIVING

Within Hold Time?
 Yes No N/A

Good Condition?
 Yes No N/A

Preserved?
 Yes No N/A

Custody Seal?
 Yes No N/A

Del. by: _____

Temp. °C _____

LAB ID/SUBCONTRACTOR

REPORT TO: J. Villinski EMAIL: _____ TELEPHONE: _____

COMPANY: _____ BILL TO / PURCHASE ORDER #: _____

ADDRESS: _____

PROJECT NAME: ONE 7771 SAMPLER NAME: _____ QUOTE #: _____

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE TYPE	GRAB	COMP.	METHOD PRESERVED	SAMPLING		Hex Cr
			YES	NO					DATE	TIME	
A1	1	Whit 1212	X		SL	X	≤6°C	7-14-20	0930	X	
A2	1					X			1015	X	
B1	1					X			1045	X	
B2	1					X			1130	X	
B3	1					X			1200	X	
B4	1					X			1230	X	

TURNAROUND REQUEST
 Standard 7/23
 Priority (SURCHARGE)

REPORTING REQUIREMENTS?
 Standard Report
 ME DEP EDD STUTOX
 DW Compliance (sent to State)
 CC Results to _____

COMMENTS
(yachting solutions)
proj. name for EDD

MEL reserves the right to subcontract analyses at MEL's discretion.

RELINQUISHED BY SAMPLER:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY: <u>R. Balmer</u>	DATE: <u>7-15-20</u>	TIME: <u>11:25</u>	RECEIVED BY: <u>AAL</u>
RELINQUISHED BY: <u>AAL</u>	DATE: <u>7/15/20</u>	TIME: <u>1750</u>	RECEIVED BY LABORATORY: <u>Rob Mout AAL 7/15/20 1750</u>



Jackie Villinski
Maine Environmental Laboratory
One Main Street
Yarmouth , ME 04096



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 212976
Client Identification: ONE 7771
Date Received: 7/15/2020

Dear Ms. Villinski :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.easternanalytical.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

- Solid samples are reported on a dry weight basis, unless otherwise noted
- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012) and New York (12072).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample (s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

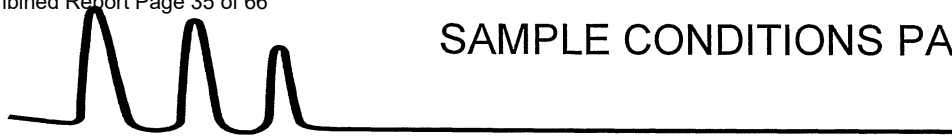
Sincerely,

Lorraine Olashaw
Lorraine Olashaw, Lab Director

7.22.20
Date

11
of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE



EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Temperature upon receipt (°C): 1.4

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
212976.01	A1	7/15/20	7/14/20	solid	65.9	Adheres to Sample Acceptance Policy
212976.02	A2	7/15/20	7/14/20	solid	75.7	Adheres to Sample Acceptance Policy
212976.03	B1	7/15/20	7/14/20	solid	76.0	Adheres to Sample Acceptance Policy
212976.04	B2	7/15/20	7/14/20	solid	75.1	Adheres to Sample Acceptance Policy
212976.05	B3	7/15/20	7/14/20	solid	74.1	Adheres to Sample Acceptance Policy
212976.06	B4	7/15/20	7/14/20	solid	73.1	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 4th edition, 1992

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: A1
 Lab Sample ID: 212976.01
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Method	Analyst
Benzo[a]anthracene	0.31	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
Chrysene	0.30	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
Benzo[b]fluoranthene	0.34	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
Benzo[k]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
Benzo[a]pyrene	0.31	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.3	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
Dibenz[a,h]anthracene	< 0.3	0.3	4	mg/kg	7/16/20	18:52	8270D	JMR
p-Terphenyl-D14 (surr)	55 %R			%	7/16/20	18:52	8270D	JMR

Detection limits elevated due to low solids content and in response to the lower initial mass used for analysis.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: A2
 Lab Sample ID: 212976.02
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed	Method	Analyst
Benzo[a]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
Chrysene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
Benzo[b]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
Benzo[k]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
Benzo[a]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
Dibenz[a,h]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 19:15	8270D	JMR
p-Terphenyl-D14 (surr)	61 %R			%	7/16/20 19:15	8270D	JMR

Detection limits elevated due to low solids content and in response to the lower initial mass used for analysis.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B1
 Lab Sample ID: 212976.03
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Method	Analyst
Benzo[a]anthracene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
Chrysene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
Benzo[b]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
Benzo[k]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
Benzo[a]pyrene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
Dibenz[a,h]anthracene	< 0.3	0.3	4	mg/kg	7/16/20	19:37	8270D	JMR
p-Terphenyl-D14 (surr)	58 %R			%	7/16/20	19:37	8270D	JMR

Detection limits elevated due to low solids content and in response to the lower initial mass used for analysis.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B2
 Lab Sample ID: 212976.04
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed	Method	Analyst
Benzo[a]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
Chrysene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
Benzo[b]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
Benzo[k]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
Benzo[a]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
Dibenz[a,h]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 20:00	8270D	JMR
p-Terphenyl-D14 (surr)	59 %R			%	7/16/20 20:00	8270D	JMR

Detection limits elevated due to low solids content and in response to the lower initial mass used for analysis.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B3
 Lab Sample ID: 212976.05
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed	Method	Analyst
Benzo[a]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
Chrysene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
Benzo[b]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
Benzo[k]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
Benzo[a]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
Dibenz[a,h]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 20:22	8270D	JMR
p-Terphenyl-D14 (surr)	60 %R			%	7/16/20 20:22	8270D	JMR

Detection limits elevated due to low solids content and in response to the lower initial mass used for analysis.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B4
 Lab Sample ID: 212976.06
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed	Method	Analyst
Benzo[a]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
Chrysene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
Benzo[b]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
Benzo[k]fluoranthene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
Benzo[a]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
Dibenz[a,h]anthracene	< 0.3	0.3	4	mg/kg	7/16/20 20:45	8270D	JMR
p-Terphenyl-D14 (surr)	71 %R			%	7/16/20 20:45	8270D	JMR

Detection limits elevated due to low solids content and in response to the lower initial mass used for analysis.



QC REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Batch ID: 637304-83041/S071620PAH1

Client Designation: **ONE 7771**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.07	1.2 (71 %R)	1.2 (74 %R) (3 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
2-Methylnaphthalene	< 0.07	1.2 (74 %R)	1.3 (77 %R) (3 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
1-Methylnaphthalene	< 0.07	1.2 (73 %R)	1.3 (76 %R) (3 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Acenaphthylene	< 0.07	1.3 (76 %R)	1.3 (79 %R) (4 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Acenaphthene	< 0.07	1.2 (72 %R)	1.2 (75 %R) (4 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Fluorene	< 0.07	1.3 (78 %R)	1.3 (81 %R) (4 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Phenanthrene	< 0.07	1.3 (80 %R)	1.4 (83 %R) (4 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Anthracene	< 0.07	1.3 (80 %R)	1.4 (83 %R) (4 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Fluoranthene	< 0.07	1.4 (85 %R)	1.4 (86 %R) (2 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Pyrene	< 0.07	1.3 (80 %R)	1.4 (84 %R) (5 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Benzo[a]anthracene	< 0.07	1.4 (84 %R)	1.4 (85 %R) (1 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Chrysene	< 0.07	1.4 (83 %R)	1.4 (85 %R) (2 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Benzo[b]fluoranthene	< 0.07	1.4 (85 %R)	1.4 (86 %R) (1 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Benzo[k]fluoranthene	< 0.07	1.4 (86 %R)	1.5 (87 %R) (1 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Benzo[a]pyrene	< 0.07	1.5 (88 %R)	1.5 (90 %R) (1 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Indeno[1,2,3-cd]pyrene	< 0.07	1.6 (95 %R)	1.6 (97 %R) (3 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Dibenz[a,h]anthracene	< 0.07	1.6 (97 %R)	1.7 (100 %R) (3 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
Benzo[g,h,i]perylene	< 0.07	1.5 (91 %R)	1.6 (94 %R) (3 RPD)	7/16/2020	mg/kg	40 - 140	30	8270D
p-Terphenyl-D14 (surr)	89 %R	83 %R	87 %R	7/16/2020	mg/kg	30 - 130		8270D

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: A1
 Lab Sample ID: 212976.01
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Method	Analyst
PCB-1016	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1221	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1232	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1242	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1248	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1254	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1260	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1262	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
PCB-1268	< 0.03	0.03	2	mg/kg	7/20/20	11:10	8082A	MA
TMX (surr)	60 %R			%	7/20/20	11:10	8082A	MA
DCB (surr)	59 %R			%	7/20/20	11:10	8082A	MA

Acid clean-up was performed on the samples and associated batch QC.
 Detection limits elevated due to low solids content.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: A2
 Lab Sample ID: 212976.02
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Method	Analyst
PCB-1016	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1221	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1232	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1242	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1248	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1254	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1260	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1262	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
PCB-1268	< 0.02	0.02	1	mg/kg	7/20/20	11:19	8082A	MA
TMX (surr)	87 %R			%	7/20/20	11:19	8082A	MA
DCB (surr)	91 %R			%	7/20/20	11:19	8082A	MA

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B1
 Lab Sample ID: 212976.03
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	Dilution		Units	Date / Time		Method	Analyst
		RL	Factor		Analyzed			
PCB-1016	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1221	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1232	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1242	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1248	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1254	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1260	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1262	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
PCB-1268	< 0.02	0.02	1	mg/kg	7/20/20	11:29	8082A	MA
TMX (surr)	99 %R			%	7/20/20	11:29	8082A	MA
DCB (surr)	89 %R			%	7/20/20	11:29	8082A	MA

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B2
 Lab Sample ID: 212976.04
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed	Method	Analyst
PCB-1016	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1221	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1232	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1242	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1248	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1254	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1260	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1262	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
PCB-1268	< 0.02	0.02	1	mg/kg	7/20/20 11:39	8082A	MA
TMX (surr)	95 %R			%	7/20/20 11:39	8082A	MA
DCB (surr)	87 %R			%	7/20/20 11:39	8082A	MA

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B3
Lab Sample ID: 212976.05
Matrix: solid
Date Sampled: 7/14/20
Date Received: 7/15/20

	Result	Dilution		Units	Date / Time		Method	Analyst
		RL	Factor		Analyzed			
PCB-1016	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1221	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1232	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1242	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1248	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1254	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1260	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1262	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
PCB-1268	< 0.02	0.02	1	mg/kg	7/20/20	11:49	8082A	MA
TMX (surr)	92 %R			%	7/20/20	11:49	8082A	MA
DCB (surr)	88 %R			%	7/20/20	11:49	8082A	MA

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Client Designation: **ONE 7771**

Client Sample ID: B4
 Lab Sample ID: 212976.06
 Matrix: solid
 Date Sampled: 7/14/20
 Date Received: 7/15/20

	Result	Dilution		Units	Date / Time		Method	Analyst
		RL	Factor		Analyzed			
PCB-1016	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1221	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1232	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1242	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1248	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1254	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1260	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1262	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
PCB-1268	< 0.02	0.02	1	mg/kg	7/20/20	11:58	8082A	MA
TMX (surr)	91 %R			%	7/20/20	11:58	8082A	MA
DCB (surr)	89 %R			%	7/20/20	11:58	8082A	MA

Acid clean-up was performed on the samples and associated batch QC.

QC REPORT

EAI ID#: 212976

Client: **Maine Environmental Laboratory**

Batch ID: 637304-17272/S071520PCB1

Client Designation: **ONE 7771**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.12 (90 %R)	0.12 (93 %R) (3 RPD)	7/20/2020	mg/kg	40 - 140	30	8082A
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
PCB-1260	< 0.02	0.11 (83 %R)	0.11 (85 %R) (2 RPD)	7/20/2020	mg/kg	40 - 140	30	8082A
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	7/20/2020	mg/kg			8082A
TMX (surr)	88 %R	89 %R	90 %R	7/20/2020	% Rec	30 - 150	30	8082A
DCB (surr)	85 %R	83 %R	84 %R	7/20/2020	% Rec	30 - 150	30	8082A

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.



MAINE ENVIRONMENTAL LABORATORY - Chain of Custody
 One Main Street Yarmouth, ME 04096-6716 Tel: (207) 846-6569 Fax: (207) 846-9066
 Email: melab@mel-lab.com Web: MaineEnvironmentalLaboratory.com

ANALYSES
 Specify Required Method
212976

REPORT TO: **J. Willinski** EMAIL: TELEPHONE:
 COMPANY: BILL TO / PURCHASE ORDER #

ADDRESS:

PROJECT NAME: **ONE 7771** SAMPLER NAME: QUOTE #:

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE TYPE	GRAB	COMP.	METHOD PRESERVED	SAMPLING		RECEIVED BY LABORATORY	RECEIVED BY	DATE	TIME	LAB ID/SUBCONTRACTOR
			YES	NO					DATE	TIME					
A1	1	40L	X		SP	X		4°C	7-14-20	0930	X	X			
A2	1		X			X				1015	X	X			
B1	1		X			X				1045	X	X			
B2	1		X			X				1130	X	X			
B3	1		X			X				1200	X	X			
B4	1		X			X				1230	X	X			

TURNAROUND REQUEST: Standard Priority (SURCHARGE)
 REPORTING REQUIREMENTS? Standard Report ME DEP EDD DW Compliance (sent to State) CC Results to _____
 COMMENTS: * ONLY these compounds please: Benz(a)anthracene, Benzo(a)fluoranthene, Benzo(a)pyrene, Chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene

RELINQUISHED BY SAMPLER: **J. Willinski** DATE: **7-15-20** TIME: **1200**
 RECEIVED BY LABORATORY: **Bobbi** DATE: **7-15-20** TIME: **1200**

RELINQUISHED BY: **Bobbi** DATE: **7-15-20** TIME: **1435**
 RECEIVED BY LABORATORY: **Bobbi** DATE: **7-15-20** TIME: **1200**



Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Jackie Villinski
Maine Environmental Laboratory
One Main Street
Yarmouth ME 04096-6716

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

Pace Project #: 10525089
Sample Receipt Date: 07/16/2020
Client Project #: ONE 7771
Client Sub PO #: N/A
State Cert #: MN00064

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:

July 24, 2020

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com

Report Prepared Date:

July 24, 2020



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on six samples submitted by a representative of Maine Environmental Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 45-90%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits. These results indicate that the sample processing steps did not significantly impact the results of the field sample determinations.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 105-130%. These results were within the target ranges for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio - VAP	CL101
Hawaii	MN00064	Ohio-DW	41244
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon- rimary	MN300001
Indiana	C-MN-01	Oregon-Second	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Massachusetts-	via MN 027-053	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Report No.....10525089

Appendix A

Sample Management

Page


MAINE ENVIRONMENTAL LABORATORY - Chain of Custody
 One Main Street Yarmouth, ME 04096-6716 Tel: (207) 846-6569 Fax: (207) 846-9066
 Email: melab@mel-lab.com Web: MaineEnvironmentalLaboratory.com

REPORT TO: **J. Villinski**
 COMPANY: **J. Villinski**
 ADDRESS: _____
 PROJECT NAME: **ONE 7771**
 QUOTE #: _____

TELEPHONE: _____
 BILL TO / PURCHASE ORDER #: _____
 EMAIL: _____

SAMPLE IDENTIFICATION	# CONTAINERS	TYPE OF CONTAINERS	FIELD FILTRATION		SAMPLE TYPE	GRAB	COMP	METHOD PRESERVED	SAMPLING		LAB ID/SUBCONTRACTOR
			YES	NO					DATE	TIME	
A1	1	4oz	X		SD	X	4°C	7-14-20	0930		21
A2	1		X			X			1015		22
B1	1		X			X			1045		23
B2	1		X			X			1130		24
B3	1		X			X			1200		25
B4	1		X			X			1230		26

WO#: 10525089



10525089

ANALYSES
Specify Required Method

FOR LAB USE ONLY
LABORATORY REPORT #

SAMPLE RECEIVING
Within Hold Time? Yes No N/A
Condition? No N/A
Seal? No N/A

Der. by: _____
Temp. °C _____

RECEIVED BY: **TN Pece** 7/16/20 855 1.2°
 RECEIVED BY: _____
 RECEIVED BY: _____


COMMENTS: **For Maine requirements**
"Yachting Solutions"
(proj name for EDD)

REPORTING REQUIREMENTS?
 Standard Report
 ME DEP EDD
 DW Compliance (sent to State)
 CC Results to _____

TURNAROUND REQUEST
 Standard 7/23
 Priority (SURCHARGE)

RELINQUISHED BY SAMPLER: _____
 RELINQUISHED BY: **Z. Baber**
 RELINQUISHED BY: _____

MEL reserves the right to subcontract analyses at MEL's discretion.

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt **Client Name:** Maine Env Lab **Project #:** **WO#: 10525089**

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exceptions

Tracking Number: 1Z 031 92E 01 5011 2985

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Biological Tissue Frozen?** Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) **Type of Ice:** Wet Blue None Dry Melted

Did Samples Originate in West Virginia? Yes No **Were All Container Temps Taken?** Yes No N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 1.2 °C **Average Corrected Temp (no temp blank only):** See Exceptions
Correction Factor: 1.0 **Cooler Temp Corrected w/temp blank:** 1.2 °C 1 Container

USDA Regulated Soil: (N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** 7/16/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception
Matrix: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> See Exception Chlorine? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No pH Paper Lot# <input type="checkbox"/>
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> See Exception
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Jeanne Richardson **Date:** 7-16-20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Report No.....10525089

Appendix B

Sample Analysis Summary



Method 1613B Sample Analysis Results

Client - Maine Environmental Laboratory

Client's Sample ID	ONE 7771 A1		
Lab Sample ID	10525089001-R		
Filename	F200724A_05		
Injected By	JRH		
Total Amount Extracted	15.7 g	Matrix	Solid
% Moisture	33.7	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	07/14/2020 09:30
ICAL ID	F200714	Received	07/16/2020 10:18
CCal Filename(s)	F200723B_11	Extracted	07/22/2020 15:06
Method Blank ID	BLANK-81187	Analyzed	07/24/2020 11:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	2.3	----	1.0	2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	7.0	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	16	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	45	----	5.0			
1,2,3,4,6,7,8-HpCDF	29	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.17 ng/Kg		
Total HpCDF	98	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	66	----	5.0			
Total HpCDD	140	----	5.0			
OCDF	48	----	10			
OCDD	510	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Maine Environmental Laboratory

Client's Sample ID	ONE 7771 A2			
Lab Sample ID	10525089002-R			
Filename	F200724A_06			
Injected By	JRH			
Total Amount Extracted	13.6 g	Matrix	Solid	
% Moisture	25.5	Dilution	NA	
Dry Weight Extracted	10.2 g	Collected	07/14/2020 10:15	
ICAL ID	F200714	Received	07/16/2020 10:18	
CCal Filename(s)	F200723B_11	Extracted	07/22/2020 15:06	
Method Blank ID	BLANK-81187	Analyzed	07/24/2020 12:03	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	67
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	64
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.000060 ng/Kg		
Total HpCDF	ND	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	6.0	----	5.0			
OCDF	ND	----	10			
OCDD	15	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Maine Environmental Laboratory

Client's Sample ID	ONE 7771 B1			
Lab Sample ID	10525089003-R			
Filename	F200724A_07			
Injected By	JRH			
Total Amount Extracted	13.7 g	Matrix	Solid	
% Moisture	24.0	Dilution	NA	
Dry Weight Extracted	10.4 g	Collected	07/14/2020 10:45	
ICAL ID	F200714	Received	07/16/2020 10:18	
CCal Filename(s)	F200723B_11	Extracted	07/22/2020 15:06	
Method Blank ID	BLANK-81187	Analyzed	07/24/2020 12:47	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	53
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	55
				1,2,3,7,8-PeCDF-13C	2.00	56
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	54
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	66
				1,2,3,4,7,8-HxCDF-13C	2.00	50
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	55
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	49
				1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	53
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	46
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	45
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	50
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10			
OCDD	ND	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

ND = Not Detected
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 NC = Not Calculated

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Method 1613B Sample Analysis Results

Client - Maine Environmental Laboratory

Client's Sample ID	ONE 7771 B2		
Lab Sample ID	10525089004-R		
Filename	F200724A_08		
Injected By	JRH		
Total Amount Extracted	13.9 g	Matrix	Solid
% Moisture	27.4	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	07/14/2020 11:30
ICAL ID	F200714	Received	07/16/2020 10:18
CCal Filename(s)	F200723B_11	Extracted	07/22/2020 15:06
Method Blank ID	BLANK-81187	Analyzed	07/24/2020 13:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	81
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	70
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10			
OCDD	24	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

ND = Not Detected
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Method 1613B Sample Analysis Results

Client - Maine Environmental Laboratory

Client's Sample ID	ONE 7771 B3			
Lab Sample ID	10525089005-R			
Filename	F200724A_09			
Injected By	JRH			
Total Amount Extracted	13.8 g	Matrix	Solid	
% Moisture	24.9	Dilution	NA	
Dry Weight Extracted	10.3 g	Collected	07/14/2020 12:00	
ICAL ID	F200714	Received	07/16/2020 10:18	
CCal Filename(s)	F200723B_11	Extracted	07/22/2020 15:06	
Method Blank ID	BLANK-81187	Analyzed	07/24/2020 14:16	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	60
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	72
				1,2,3,4,7,8-HxCDF-13C	2.00	62
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	59
				1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	58
				1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	56
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10			
OCDD	ND	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated

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Method 1613B Sample Analysis Results

Client - Maine Environmental Laboratory

Client's Sample ID	ONE 7771 B4			
Lab Sample ID	10525089006-R			
Filename	F200724A_10			
Injected By	JRH			
Total Amount Extracted	13.3 g	Matrix	Solid	
% Moisture	25.1	Dilution	NA	
Dry Weight Extracted	10.00 g	Collected	07/14/2020 12:30	
ICAL ID	F200714	Received	07/16/2020 10:18	
CCal Filename(s)	F200723B_11	Extracted	07/22/2020 15:06	
Method Blank ID	BLANK-81187	Analyzed	07/24/2020 15:00	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	66
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10			
OCDD	ND	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKUA	Matrix	Solid
Lab Sample ID	BLANK-81187	Dilution	NA
Filename	U200724A_03	Extracted	07/22/2020 15:06
Total Amount Extracted	10.2 g	Analyzed	07/24/2020 09:44
ICAL ID	U200720	Injected By	JRH
CCal Filename(s)	U200723C_08		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Lower-bound - Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10			
OCDD	ND	----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-81188	Matrix	Solid
Filename	U200724A_04	Dilution	NA
Total Amount Extracted	10.5 g	Extracted	07/22/2020 15:06
ICAL ID	U200720	Analyzed	07/24/2020 10:25
CCal Filename	U200723C_08	Injected By	JRH
Method Blank ID	BLANK-81187		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	113
2,3,7,8-TCDD	10	11	6.7	15.8	111
1,2,3,7,8-PeCDF	50	53	40.0	67.0	105
2,3,4,7,8-PeCDF	50	53	34.0	80.0	105
1,2,3,7,8-PeCDD	50	53	35.0	71.0	106
1,2,3,4,7,8-HxCDF	50	58	36.0	67.0	115
1,2,3,6,7,8-HxCDF	50	56	42.0	65.0	113
2,3,4,6,7,8-HxCDF	50	56	35.0	78.0	111
1,2,3,7,8,9-HxCDF	50	53	39.0	65.0	106
1,2,3,4,7,8-HxCDD	50	54	35.0	82.0	108
1,2,3,6,7,8-HxCDD	50	65	38.0	67.0	130
1,2,3,7,8,9-HxCDD	50	65	32.0	81.0	129
1,2,3,4,6,7,8-HpCDF	50	58	41.0	61.0	116
1,2,3,4,7,8,9-HpCDF	50	56	39.0	69.0	112
1,2,3,4,6,7,8-HpCDD	50	54	35.0	70.0	109
OCDF	100	120	63.0	170.0	116
OCDD	100	120	78.0	144.0	117
2,3,7,8-TCDD-37Cl4	10	7.1	3.1	19.1	71
2,3,7,8-TCDF-13C	100	75	22.0	152.0	75
2,3,7,8-TCDD-13C	100	71	20.0	175.0	71
1,2,3,7,8-PeCDF-13C	100	72	21.0	192.0	72
2,3,4,7,8-PeCDF-13C	100	80	13.0	328.0	80
1,2,3,7,8-PeCDD-13C	100	78	21.0	227.0	78
1,2,3,4,7,8-HxCDF-13C	100	67	19.0	202.0	67
1,2,3,6,7,8-HxCDF-13C	100	83	21.0	159.0	83
2,3,4,6,7,8-HxCDF-13C	100	78	22.0	176.0	78
1,2,3,7,8,9-HxCDF-13C	100	73	17.0	205.0	73
1,2,3,4,7,8-HxCDD-13C	100	65	21.0	193.0	65
1,2,3,6,7,8-HxCDD-13C	100	73	25.0	163.0	73
1,2,3,4,6,7,8-HpCDF-13C	100	69	21.0	158.0	69
1,2,3,4,7,8,9-HpCDF-13C	100	64	20.0	186.0	64
1,2,3,4,6,7,8-HpCDD-13C	100	70	26.0	166.0	70
OCDD-13C	200	110	26.0	397.0	55

Cs = Concentration Spiked (ng/mL)
 Cr = Concentration Recovered (ng/mL)
 Rec. = Recovery (Expressed as Percent)
 Control Limit Reference: Method 1613, Table 6, 10/94 Revision
 R = Recovery outside of control limits
 Nn = Value obtained from additional analysis
 * = See Discussion

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