

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

TestAmerica Job ID: 580-79202-5

Client Project/Site: Portland Harbor Pre-Remedial Design

Revision: 1

For:

AECOM 1111 Third Ave Suite 1600 Seattle, Washington 98101

Attn: Amy Dahl

M. Elaine Walker

Authorized for release by: 12/12/2018 4:14:31 PM

Elaine Walker, Project Manager II (253)248-4972

elaine.walker@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: AECOM

TestAmerica Job ID: 580-79202-5

Project/Site: Portland Harbor Pre-Remedial Design

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
Chronicle	6
Certification Summary	7
Sample Summary	8
Chain of Custody	
Receipt Checklists	13

2

4

5

7

8

9

Case Narrative

Client: AECOM TestAmerica Job ID: 580-79202-5

Project/Site: Portland Harbor Pre-Remedial Design

Job ID: 580-79202-5

Laboratory: TestAmerica Seattle

Narrative

CASE NARRATIVE Client: AECOM

Project: Portland Harbor Pre-Remedial Design Report Number: 580-79202-5

REVISION 1: DECEMBER 12, 2018

This revision was required because the Plasticity was incorrectly calculated using un-rounded numbers rather than rounded.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Six samples were received on 7/30/2018 1:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

The following samples were activated by the client for all on hold analysis on 8/16/18: PDI-SG-B485 (580-79202-1), PDI-SG-B484 (580-79202-2), PDI-SG-B482 (580-79202-3), PDI-SG-B487 (580-79202-4), PDI-SG-B488 (580-79202-5) and PDI-SG-B486 (580-79202-6).

Atterberg Limits were cancelled for all samples except for PDI-SG-B485 (580-79202-1) on 8/29/2018 and this report contains results for this analysis only.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Sample PDI-SG-B485 (580-79202-1) was analyzed for Liquid Limit, Plastic Limit and Plasticity Index of Soils in accordance with ASTI D4318. The sample was analyzed on 08/29/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: AECOM TestAmerica Job ID: 580-79202-5

Project/Site: Portland Harbor Pre-Remedial Design

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Seattle

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Client Sample Results

Client: AECOM TestAmerica Job ID: 580-79202-5

Project/Site: Portland Harbor Pre-Remedial Design

Client Sample ID: PDI-SG-B485 Lab Sample ID: 580-79202-1

Date Collected: 07/27/18 12:45 Matrix: Solid

Date Received: 07/30/18 13:40

Method: D4318 - Liquid Limit,	Plastic Lim	it and Plasti	city Index o	f Soils					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Liquid Limit	52				NONE			08/29/18 17:01	1
Plastic Limit	36				NONE			08/29/18 17:01	1
Plasticity Index	16				NONE			08/29/18 17:01	1

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Lab Chronicle

Client: AECOM TestAmerica Job ID: 580-79202-5

Project/Site: Portland Harbor Pre-Remedial Design

Client Sample ID: PDI-SG-B485 Lab Sample ID: 580-79202-1

Date Collected: 07/27/18 12:45 Matrix: Solid

Date Received: 07/30/18 13:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D4318		1	133482	08/29/18 17:01	MAP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Accreditation/Certification Summary

Client: AECOM TestAmerica Job ID: 580-79202-5

Project/Site: Portland Harbor Pre-Remedial Design

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-19
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP	 -	L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-19
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18 *
New Hampshire	NELAP	1	2006	12-18-18 *
New Jersey	NELAP	2	VT972	06-30-19
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-19
Rhode Island	State Program	1	LAO00298	12-30-18 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18 *
Virginia	NELAP	3	460209	12-14-18 *

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: AECOM

Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79202-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-79202-1	PDI-SG-B485	Solid	07/27/18 12:45	07/30/18 13:40

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Sample Identification Sample Schimer Sample Sampl	St. Shade, Surker Sciences E. Onice_ASAP.	e: (206) 438-2700 Fax: 1+(866) 495-5288 ct Name: Portland Harbor Pre-Remedial Design iteation and Baseline Sampline		61	1 days						(d-Hala)	£169	006 sbilos	WIS-0728						
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PDI-SG-B486	PDI-SG-B488 1728-2018 1129 SS MT	PDI-SG-B487	7/28/2018	9:31	SS		IM	66				×	Н							
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### Sample Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column ### Sample Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column ### Sample Acid, H3POA = Phosphoric Acid, HNO3 = Nitric Acid ### Sample Disposal #### Sample Disposal #### Sample Disposal ### Sample Disposal #### Sample Disposal ##	Subfaced, PRT = Particulate, T = Total (unfiltered) Sompted, PRT = Particulate, T = Total (unfiltered) Sompted, PRT = Particulate, T = Total (unfiltered) Sompted, PRT = Particulate, T = Total (unfiltered) Sompted Discriming analyses pending further instruction. Sompted Discriming Company: Company: Company: Company: Company: Company: Company: Company: Company: Date Time: Received by: Company: Com								-	-				+						
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PDI-SG-B484	7/27/2018	15:15	SS		MM	7		н	н	н	x	н	н	н											
PDI-SG-B482	7/27/2018	14:18	SS		ММ	18	2	н	Н	Н	x	н	Н	_	14.7						1	1			
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Container Type: WMG=Wide Mouth Glass Jar, P=HDPE,	PP=Polypro	pylene, A	G≖amber g	ılass, G≂gla	ss, RC≈Res	sin Columi	n								1					1	1	<u> </u>			
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosph		INO3 = Nit	ric Acid																		T	1			
Fraction: $D = Dissolved$, $PRT = Particulate$, $T = Total (unfiltered)$	d)							-	le Disț		4														
pecial Instructions/QC Requirements & Comments:								<u> </u>	Return	To Cli	31 R	X	. Ispo.	sal By	Lab	L X	rcnive	For Ta	Month.	S					
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Ikg=114/1.4 W/c.S.

RIGIN ID:BNOA (503) 906-9240 AMPLE CONTROL ESTAMERICA PORTLAND 920 920 SW GEMINI DR UILDING 7 EAVERTON, OR 970087145

SHIP DATE: 02AUG18 ACTWGT: 33.35 LB CAD: 0996922/CAFE3210

BILL RECIPIENT

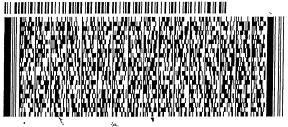
TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(802) 660 – 1990

REF: \$580 - 29961



FedEx Express



TRK# 4423 0750 7969

FRI - 03 AUG 10:30A PRIORITY OVERNIGHT

XH BTVA

05403 VT-US BTV



Client: AECOM Job Number: 580-79202-5

Login Number: 79202 List Source: TestAmerica Seattle

List Number: 1

Creator: O'Connell, Jason I

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: AECOM Job Number: 580-79202-5

Login Number: 79202 List Source: TestAmerica Burlington
List Number: 2 List Creation: 08/03/18 01:29 PM

Creator: Mohn, Taylor J

Creator: Monn, Taylor J		•
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Was not measured.</td>	N/A	Was not measured.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	