

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: 580-80635-6 Client Project/Site: Portland Harbor Pre-Remedial Design

# For:

AECOM 1111 Third Ave Suite 1600 Seattle, Washington 98101

Attn: Amy Dahl

M. Elaine Walker

Authorized for release by: 10/8/2018 5:58:08 PM Elaine Walker, Project Manager II (253)248-4972 elaine.walker@testamericainc.com

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Visit us at: www.testamericainc.com 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.

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## Job ID: 580-80635-6

#### Laboratory: TestAmerica Seattle

#### Narrative

## CASE NARRATIVE Client: AECOM Project: Portland Harbor Pre-Remedial Design Report Number: 580-80635-6

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

Four samples were received on 9/27/2018 12:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were -11.0° C and 3.3° C.

Containers for the following samples were received from the Portland service center on dry ice at -10.0°C in the Seattle lab and were placed in CSU-19 at 10:10 on 9/28/18: PDI-SG-B436 (580-80635-1), PDI-SG-B474 (580-80635-2), PDI-SG-B480 (580-80635-3) and PDI-SG-B481 (580-80635-4)

This report contains results for Grain Size analysis only. All other analyses are on hold per client request.

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.

#### **GRAIN SIZE**

Samples PDI-SG-B436 (580-80635-1), PDI-SG-B474 (580-80635-2), PDI-SG-B480 (580-80635-3) and PDI-SG-B481 (580-80635-4) were analyzed for grain size in accordance with ASTM D7928/D6913. The samples were analyzed on 10/01/2018.

Coarse Sand and Medium Sand exceeded the RPD limit for the duplicate of sample PDI-SG-B436DU (580-80635-1).

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

# **Definitions/Glossary**

#### Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design

# 1 2 3 4 5 6 7

# Qualifiers

## Geotechnical

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

# Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

#### Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design

Lab Sample ID: 580-80635-1

Matrix: Solid

### Client Sample ID: PDI-SG-B436 Date Collected: 08/16/18 11:40

Date Received: 09/27/18 12:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Clay	6.6				%			10/01/18 08:16	1
Coarse Sand	0.2				%			10/01/18 08:16	1
Fine Sand	55.8				%			10/01/18 08:16	1
Gravel	0.0				%			10/01/18 08:16	1
Medium Sand	0.4				%			10/01/18 08:16	1
Silt	36.9				%			10/01/18 08:16	1

Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design TestAmerica Job ID: 580-80635-6

Lab Sample ID: 580-80635-2

Matrix: Solid

5

## Client Sample ID: PDI-SG-B474 Date Collected: 08/17/18 15:53

Date Received: 09/27/18 12:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Clay	2.1				%			10/01/18 08:16	1
Coarse Sand	0.0				%			10/01/18 08:16	1
Fine Sand	84.3				%			10/01/18 08:16	1
Gravel	0.0				%			10/01/18 08:16	1
Medium Sand	2.0				%			10/01/18 08:16	1
Silt	11.6				%			10/01/18 08:16	1

Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design

Lab Sample ID: 580-80635-3

Matrix: Solid

5

### Client Sample ID: PDI-SG-B480 Date Collected: 08/17/18 11:05

Date Received: 09/27/18 12:55

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Clay	1.0			%			10/01/18 08:16	1
Coarse Sand	0.7			%			10/01/18 08:16	1
Fine Sand	75.5			%			10/01/18 08:16	1
Gravel	2.1			%			10/01/18 08:16	1
Medium Sand	16.7			%			10/01/18 08:16	1
Silt	4.1			%			10/01/18 08:16	1

Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design TestAmerica Job ID: 580-80635-6

Lab Sample ID: 580-80635-4

Matrix: Solid

## Client Sample ID: PDI-SG-B481 Date Collected: 07/27/18 13:30

Date Received: 09/27/18 12:55

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Clay	5.9				%			10/01/18 08:16	1
Coarse Sand	0.8				%			10/01/18 08:16	1
Fine Sand	66.0				%			10/01/18 08:16	1
Gravel	1.9				%			10/01/18 08:16	1
Medium Sand	2.1				%			10/01/18 08:16	1
Silt	23.3				%			10/01/18 08:16	1

#### Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design

## Method: D7928/D6913 - ASTM D7928/D6913

Lab Sample ID: 580-8063 Matrix: Solid Analysis Batch: 285330	5-1 DU						ple ID: PDI-SG Prep Type: Tot	
-	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Clay	6.6		6.7		%		2	20
Coarse Sand	0.2		0.1	F3	%		67	20
Fine Sand	55.8		53.9		%		3	20
Gravel	0.0		0.0		%		NC	20
Medium Sand	0.4		0.5	F3	%		22	20
Silt	36.9		38.8		%		5	20

5 6

## Lab Chronicle Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design

Client Sam Date Collecte Date Receive	d: 08/16/18 1	1:40					Lab S	ample ID	: 580-80635-1 Matrix: Solid
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7928/D6913		1	285330	10/01/18 08:16	JKM	TAL SEA	
Client Sam	ple ID: PDI	-SG-B474					Lab S	ample ID	: 580-80635-2
Date Collecte Date Receive	d: 08/17/18 1	5:53						•	Matrix: Solid
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7928/D6913		1	285330	10/01/18 08:16	JKM	TAL SEA	
Total/NA	Analysis			1	285330	10/01/18 08:16			: 580-80635-3
	Analysis	-SG-B480		1	285330	10/01/18 08:16			
Total/NA	Analysis ple ID: PDI d: 08/17/18 1	-SG-B480 1:05		1	285330	10/01/18 08:16			
Total/NA Client Sam Date Collecte	Analysis ple ID: PDI d: 08/17/18 1	-SG-B480 1:05		Dilution	285330 	10/01/18 08:16 Prepared			
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Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA	Analysis ple ID: PDI d: 08/17/18 1 d: 09/27/18 1 Batch Type Analysis	-SG-B480 1:05 2:55 Batch Method D7928/D6913	Run	Dilution	Batch Number	Prepared or Analyzed	Lab S Analyst JKM	Cample ID	Matrix: Solid
Total/NA Client Sam Date Collecte Date Received Prep Type	Analysis ple ID: PDI d: 08/17/18 1 d: 09/27/18 1 Batch Type Analysis ple ID: PDI	-SG-B480 1:05 2:55 Batch Method D7928/D6913 -SG-B481	Run	Dilution	Batch Number	Prepared or Analyzed	Lab S Analyst JKM	Cample ID	
Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA Client Sam	Analysis ple ID: PDI d: 08/17/18 1 d: 09/27/18 1 Batch Type Analysis ple ID: PDI d: 07/27/18 1	-SG-B480 1:05 2:55 Batch Method D7928/D6913 -SG-B481 3:30	Run	Dilution	Batch Number	Prepared or Analyzed	Lab S Analyst JKM	Cample ID	Matrix: Solid
Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA Client Sam Date Collecte	Analysis ple ID: PDI d: 08/17/18 1 d: 09/27/18 1 Batch Type Analysis ple ID: PDI d: 07/27/18 1	-SG-B480 1:05 2:55 Batch Method D7928/D6913 -SG-B481 3:30	Run	Dilution	Batch Number	Prepared or Analyzed	Lab S Analyst JKM	Cample ID	Matrix: Solid
Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA Client Sam Date Collecte	Analysis ple ID: PDI d: 08/17/18 1 d: 09/27/18 1 Batch Type Analysis ple ID: PDI d: 07/27/18 1 d: 09/27/18 1	-SG-B480 1:05 2:55 Batch Method D7928/D6913 -SG-B481 3:30 2:55	Run	Dilution Factor 1	Batch Number 285330	Prepared or Analyzed 10/01/18 08:16	Lab S Analyst JKM	Cample ID	Matrix: Solid

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Accreditation/Certification Summary

Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design TestAmerica Job ID: 580-80635-6

# 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	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-18
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

Project/Site: Portland Harbor Pre-Remedial Design

Client: AECOM

TestAmerica Job ID: 580-80635-6

Client: AECOM Project/Site: Portla	and Harbor Pre-Remedial Design		TestAmerica Job ID: 580-80635-	-6
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Lab Sample ID 580-80635-1	Client Sample ID PDI-SG-B436	Solid	<u>08/16/18 11:40</u> <u>09/27/18 12:5</u>	
580-80635-2	PDI-SG-B474	Solid	08/17/18 15:53 09/27/18 12:5	
580-80635-3	PDI-SG-B480	Solid	08/17/18 11:05 09/27/18 12:5	
580-80635-4	PDI-SG-B481	Solid	07/27/18 13:30 09/27/18 12:5	55 <sup>0</sup>
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Ph: 253-922-2310 Fax: 253-922-504/		Project Co	ntact: Amy	Project Contact: Amy Dahl / Chelsey Cool	v Cook	Si	te Contact:	Site Contact: Jennifer Ray				Courier Courier				of 1	cocs	
Client Contact		Tel: (20	6) 438-2261	Tel: (206) 438-2261 / (206) 438-2010	010	Li	aboratory C	Laboratory Contact: Elaine-Walker	e-Walker	-	Car	ler: Course		-				
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Project #: 60566335 Study: Surface Sediment						T	-	A , el si	carb	linT ,	2			-	-			
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Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column 	E, PP=Polyprc	pylene, A(	S=amber g	ass, G=glas	s, RC=Kesi	n Column					-							-
Preservative: HCI = Hydrochloric Acid, H3PO4 = Prospinoric Acid, Trivo3 - murc Acid. Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)	red)						Sampl	Sample Disposal		X jisposal By Lab	3y Lab	X Archive	X Archive For 12 Months	hs				_
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Ph: 253-922-2310 Fax: 253-922-5047							C	HAI	NU	PF C	USI	IOD	Y									1		
Client Contact	Project Contact: Amy Dahl / Chelsey Cook Site Contact: Jennifer Ray 9/26/2018 C									8 COC No: 1														
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Phone: (206) 438-2700 Fax: 1+(866) 495-5288										6	1	96		W.										
Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling	21 days								NWTPH-Dx.	6913	fotal organic carbon, Total solids 9060 104C & 70C)		PAHs, BEHP, Tributyttin, 8270-SIM, 8270- LL, Kron/Unger	.5										
Portland, OR	L I	Other AS	AP							1 in	28/D	Tota		Itin	1Ă									
Project #: 60566335 Study: Surface Sediment								5		Mercury	079.	ś	9C	auty -	12		580.2	0635	Chain	of Cu	stody			
Sample Type: D/U			· · · · · ·					ers 1668A	138	TPH Diesel, Metals, N 6020B, 7471A	Grain size ASTM D7928/D6913	K carb	Archive Archive -20 C	P. Tril	Nescore.	580-80635 Chain of Custody					•	ľ		
	6			T	<u> </u>		- 10	ongen	PCDD/Es 1613B	itesel.	size /	organ & 70	ve Art	, BEH	R									
Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fracti	PCB C	PCDD	TPH D	Grain	Total (104C	Archí	PAHs LL, K	Å7							Samp	le Specific Note	s:
PDI-SG-B436	8/16/2018	11-40	<b>S</b> \$		MM	18		H	н	В	X	н	н	н								AU MOR	- L <u>X1</u>	FAITS
PDI-SG-B474	8/17/2018	15:53	<b>S</b> \$		ММ	7		н	н	н	x	H	11	н	Н		1			~~~		819	C1405	
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Container Type: WMG=Wide Mouth Glass Jar, P=HDPE,	PP=Polypr	opylene, A	G≕amber g	lass, G=gla	ss, RC≃Res	in Column																		
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phospl		HNO3 = Nit	ric Acid																					
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered	ed)								le Disp													*		
								<u> </u>	Return	To Cli	ənt	X	ispo	sal By I	Lab	X Irch	ive Fo	r 12 Ma	onths					
Special Instructions/QC Requirements & Comments: Analyze samples for grain size ASAP, Hold (H) rema	ining analy	ses pendin	g further in	struction.																				
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10/8/2018

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## Login Sample Receipt Checklist

### Client: AECOM

#### Login Number: 80635 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.	False	Refer to Job Narrative for details.
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	

List Source: TestAmerica Seattle