

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: 580-79329-7 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: 11/29/2018 1:35:02 PM Elaine Walker, Project Manager II (253)248-4972 elaine.walker@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.

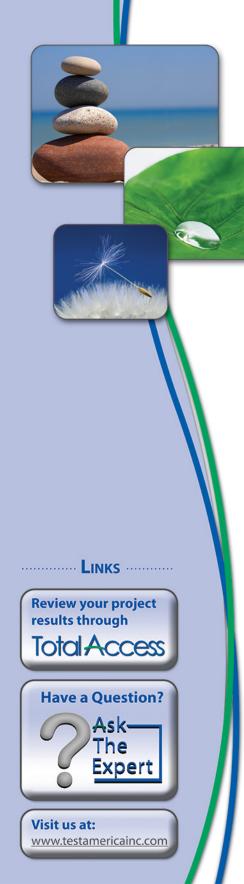


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Job ID: 580-79329-7

Laboratory: TestAmerica Seattle

Narrative

CASE NARRATIVE Client: AECOM Project: Portland Harbor Pre-Remedial Design Report Number: 580-79329-7

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.

<u>RECEIPT</u>

Forty-six samples were received on 8/3/2018 1:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 1.2° C, 1.7° C, 2.2° C, 2.3° C, 2.4° C, 3.1° C, 3.9° C and 4.6° C.

A sample container was provided to be archived frozen at the TestAmerica Sacramento laboratory pending potential additional analyses.

The following sample was activated by the client on for Atterberg Limits on 8-7-2018: PDI-SC-S178-0to2 .(580-79329-17).

The following samples were activated by the client on 9/24/18 for PCBs, PAHs, TOC and both TS methods. PDI-SC-S221-0to2 (580-79329-40), PDI-SC-S221-2to4 (580-79329-41), PDI-SC-S221-2to4 (580-79329-41[MS]), PDI-SC-S221-2to4 (580-79329-41], PDI-SC-S221-2to4 (580-79329-43), PDI-SC-S221-2to4 (580-79329-44), PDI-SC-S221-2to4 (580-793

The 1613B Dioxins and Grain Size were omitted from the activation request on 9/24/2018. Per client request, these analyses were added to samples PDI-SC-S221-0to2 (580-79329-40), PDI-SC-S221-2to4 (580-79329-41), PDI-SC-S221-2to4 (580-79329-41[MS]), PDI-SC-S221-2to4 (580-79329-41[MSD]), PDI-SC-S221-2to4 (580-79329-42) and PDI-SC-S221-6to8.1 (580-79329-43) on 11/16/2018. This report contains results for 1613B Grain Size only, performed at TestAmerica Seattle.

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-SC-S221-0to2 (580-79329-40), PDI-SC-S221-2to4 (580-79329-41), PDI-SC-S221-4to6 (580-79329-42) and PDI-SC-S221-6to8.1 (580-79329-43) were analyzed for grain size in accordance with ASTM D7928/D6913. The samples were analyzed on 11/16/2018.

Medium Sand exceeded the RPD limit for the duplicate of sample PDI-SC-S221-0to2DU (580-79329-40).

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

19.7

Clay

TestAmerica Job ID: 580-79329-7

11/16/18 11:08

Client Sample ID: PDI-SC-S221-0to2 Lab Sample ID: 580-79329-40 Date Collected: 08/03/18 10:15 Matrix: Solid Date Received: 08/03/18 13:45 Method: D7928/D6913 - ASTM D7928/D6913 Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac % Gravel 0.0 11/16/18 11:08 1 % **Coarse Sand** 11/16/18 11:08 0.0 1 % **Medium Sand** 0.2 11/16/18 11:08 1 % **Fine Sand** 7.5 11/16/18 11:08 1 % 11/16/18 11:08 1 Silt 72.6

%

1

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

19.9

Clay

TestAmerica Job ID: 580-79329-7

11/16/18 11:08

5

1

Client Sample ID: PDI-SC-S221-2to4 Lab Sample ID: 580-79329-41 Date Collected: 08/03/18 10:20 Matrix: Solid Date Received: 08/03/18 13:45 Method: D7928/D6913 - ASTM D7928/D6913 Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac % Gravel 0.0 11/16/18 11:08 1 % **Coarse Sand** 11/16/18 11:08 0.1 1 % **Medium Sand** 0.1 11/16/18 11:08 1 % **Fine Sand** 8.8 11/16/18 11:08 1 % 11/16/18 11:08 1 Silt 71.1

%

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

19.2

Clay

TestAmerica Job ID: 580-79329-7

11/16/18 11:08

5

1

Client Sample ID: PDI-SC-S221-4to6 Lab Sample ID: 580-79329-42 Date Collected: 08/03/18 10:25 Matrix: Solid Date Received: 08/03/18 13:45 Method: D7928/D6913 - ASTM D7928/D6913 Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac % Gravel 0.0 11/16/18 11:08 1 % **Coarse Sand** 11/16/18 11:08 0.0 1 % **Medium Sand** 0.1 11/16/18 11:08 1 % **Fine Sand** 14.1 11/16/18 11:08 1 % 11/16/18 11:08 1 Silt 66.5

%

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

20.3

Clay

TestAmerica Job ID: 580-79329-7

11/16/18 11:08

Client Sample ID: PDI-SC-S221-6to8.1 Lab Sample ID: 580-79329-43 Date Collected: 08/03/18 10:30 Matrix: Solid Date Received: 08/03/18 13:45 Method: D7928/D6913 - ASTM D7928/D6913 Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac % Gravel 0.0 11/16/18 11:08 1 % **Coarse Sand** 11/16/18 11:08 0.0 1 % **Medium Sand** 0.1 11/16/18 11:08 1 % **Fine Sand** 15.6 11/16/18 11:08 1 % 11/16/18 11:08 1 Silt 64.1

%

1

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

Method: D7928/D6913 - ASTM D7928/D6913

Lab Sample ID: 580-793 Matrix: Solid Analysis Batch: 289092					С	lient Sample	ID: PDI-SC-S221 Prep Type: Tot	
		Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Gravel	0.0		0.0		%		NC	20
Coarse Sand	0.0		0.0		%		NC	20
Medium Sand	0.2		0.1	F3	%		67	20
Fine Sand	7.5		7.9		%		5	20
Silt	72.6		72.9		%		0.4	20
Clay	19.7		19.1		%		3	20

5 6 7

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

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		I-SC-S221-0to2	2				Lab Sa	mple ID:	580-79329-40
Date Collecter Date Receiver									Matrix: Solid
-	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7928/D6913		1	289092	11/16/18 11:08	A1K	TAL SEA	-
Client Sam	ole ID: PDI	-SC-S221-2to4	4				Lab Sa	mple ID:	580-79329-41
Date Collecte								-	Matrix: Solid
Date Received	<u>J: 08/03/18 1</u>	3:45							
-	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	D7928/D6913		1	289092	11/16/18 11:08	A1K	TAL SEA	-
Client Sam	ole ID: PDI	-SC-S221-4to6	6				Lab Sa	mple ID:	580-79329-42
Date Collecte	d: 08/03/18 1	0:25							Matrix: Solid
Date Received	J: 08/03/18 1	3:45							
	Batch	Batch		Dilution	Batch	Prepared			
_			_	Factor	Number	or Analyzed	Analyst	Lab	
Prep Type	Туре	Method	Run	i actor			-		
Prep Type Total/NA	Type Analysis	D7928/D6913	Run	1		11/16/18 11:08	A1K	TAL SEA	-
Total/NA	Analysis	D7928/D6913				•		_	580-79329-43
Total/NA	Analysis	D7928/D6913				•		_	: 580-79329-43 Matrix: Solid
Total/NA Client Samp	Analysis ple ID: PDI d: 08/03/18 1	D7928/D6913				•		_	
Total/NA Client Samp Date Collected	Analysis ple ID: PDI d: 08/03/18 1	D7928/D6913				11/16/18 11:08		_	
Total/NA Client Samp Date Collected	Analysis ple ID: PDI d: 08/03/18 1 d: 08/03/18 1	D7928/D6913 I-SC-S221-6to8 I0:30 3:45		1	289092	•		_	

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: 580-79329-7

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
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

Sample Summary

Client: AECOM Project/Site: Portland Harbor Pre-Remedial Design TestAmerica Job ID: 580-79329-7

Client: AECOM Project/Site: Portla	and Harbor Pre-Remedial Design		TestAmerica Job ID:	580-79329-7
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-79329-40	PDI-SC-S221-0to2	Solid	08/03/18 10:15	08/03/18 13:45
580-79329-41	PDI-SC-S221-2to4	Solid	08/03/18 10:20	08/03/18 13:45
580-79329-42	PDI-SC-S221-4to6	Solid	08/03/18 10:25	08/03/18 13:45
580-79329-43	PDI-SC-S221-6to8.1	Solid	08/03/18 10:30	08/03/18 13:45

x: 253-922-5047	Project Contact: Amy Dahl / Chelsey Cook Site Contact: Jennifer Ray / Michaela McCooe Date: 872/18			Carbon	2 [Officer	rs, PAHs, 8	Sample Sampler's Total No. Others of Cont. Control of all Solids Sample Date Time Matrix QC Sample Initials of Cont. Of Cont. Of Solids	L H / ,	11:55 SC ED	x x		 8/1/2018 12:15 SC ED V x x x	8/2/2018 9.20 SC ED A x x	8/2/2018 9:20 SC ED 3	2 to 3.3 8/2/2018 9:25 SC ED 4 x x x x x x x x x x x x x x x x x x	8/2/2018 11:20 SC ED 4 X X	8/2/2018 11:25 SC ED C x x x		r glass, G=glass, RC=Resin Colur AG AG WAG W	Fraction: D = Disolved, PRT = Particulate, T = Total (Infiltered) Samples Discoved Second Second Discoved			Company: React Date Time: 8/3/18 13:05 Record by: When the state of t
TestAmerica-Seattle 5755-8th-Street-East Tacoma, WA 98424-1317 Ph: 253-922-2310 Fax: Clinin Control Clinin Control	AFCOM CIRCUITACI	1111 3rd Ave Suite 1600	Seattle, WA 98101	Phone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design	investigation and Baseline Sampling	Project #: 60566335 Study: Subsurface Sediment	Sample Type:	Sample Identification	PDI-SC-S144 - 0 to 2	PDI-SC-S144 -	PDI-SC-S144 - 4 to 6	PDI-SC-S144 -		PDI-SC-S086 - 0 to 2		PDI-SC-S086 - 2 to 3.3	PDI-SC-S218 - 0 to 2	PDI-SC-S218 - 2 to 4.5	PDI-SC-S218 - 4.5 to 6	Container Type: WMG=Wide Mouth Glass Jar, Preservative: HCI = Hvdrochloric Acid H3DOA	Fraction: $D = Dissolved$, $PRT = Particulate$, $T = Tota$	Special Instructions/QC Requirements & Comment	Relinuished hv.	Kan V

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		Client Contact		Project (Contact: An	Project Contact: Amy Dahl / Chelsey Cook	Isey Cook	-1	lite Contac	t: Jennife	Site Contact: Jennifer Ray / Michaela McCoog	ichaela Mc	Coog	Date:	Date: 8/3/18			CO	COC No: 1	
4	AECOM 1111 3rd Ave Suite 1600	1600		Tel: ((206) 438-22	Tel: (206) 438-2261 / (206) 438-2010 Analysis Turnaround Time	8-2010	-	aboratory	· Contact:	Laboratory Contact: Elaine-Walker	alker	-	Carri	Carrier: Courier				of 4 1	pages
	Seattle, WA 98101			Calendar ((C) or Work	Calendar (C) or Work Days (W) W			- 3		'3 'UC									
<u> </u>	Phone: (206) 438-2700 Fax: 1+(86) Project Name: Portland Harbor Pre-R Investigation and Baseline Sampling	Phone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling		21.0	21 days				the second		ganic Carbo 1, 9060, 160	-								
A A	Portland, OR Project #: 60566335	5 Study: Subsurface Sediment		Other						2 1090/870	21690/62/	81640 MTS								
S	Sample Type:								8619	20 MIS	975, PAF									
	San	Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	PCDD/Fs 16	Archive Arsin size A	PCB Arocl								Samila Creeffe Mater	N
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gé '	PDI-SC-S178 -	8 - 0 to 2	8/2/2018	15:55	sc		ED	2	x	x x	×									
14 (PDI-SC-S178 -	8 - 2 to 3.7	8/2/2018	16:00	sc		ED	+	x	x x	x									
of 2	PDI-SC-S178 -	3 - 3.7 to 4.7	8/2/2018	16:05	sc		ED	4	x	x x	x									
5	PDI-SC-S178 -	8 - 4.7 to 6.7	8/2/2018	16:10	sc		ED	2	x	x x	x									
	PDI-SC-S178 -	8 - 6.7 to 8.7	8/2/2018	16:15	SC		ED	T	x	x x	X									
	PDI-SC-S178 -	s - 8.7 to 10.7	8/2/2018	16:20	sc		ED	5	x	x x	x									
	PDI-SC-S178	PDI-SC-S178 • 10.7 to 12.7	8/2/2018	16:25	sc		ED	7	x	x x	x									
	PDI-SC-S178	PDI-SC-S178 - 12.7 to 14	8/2/2018	16:30	SC		ED	4		x x	x									
	container Type: V	Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, Descentative: HCI = Hudrochloric Acid, H2DOA - Descentation Acid, HMO2 - Autor Acid	=HDPE, PP=	Polypropy	lene, AG=2	amber glass	G=glass, R	RC=Resin Colu	AG	AG WMG	G WMG	AG								
E L	raction: $D = Disso.$	Fraction: $D = Dissolved$, $PRT = Particulate, T = Total (unfiltered)$	(unfiltered)	NILL ININ		HUI			Sample	Sample Disposal										
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5755-8th-Street-East Tacoma, WA 98424-1317							SI	BSU	RFAC	SUBSURFACE SEDIMENT	IME	L							
Ph: 253-922-2310	Fax: 253-922-5047							CHA	NOF	CHAIN OF CUSTODY	LODY								
	Chent Contact		Project	Contact: An	Project Contact: Amy Dahl / Chelsey Cook	sey Cook		Site Con	tact: Jenn	Site Contact: Jennifer Ray / Michaela McCoog	fichaela M	cCoog	A	Date: 8/3/18			0	COC No: 1	
AECOM 1111 3rd Ave Suite 1600	1600		Tel:	(206) 438-22 Vnalvsis Tur	Tel: (206) 438-2261 / (206) 438-2010 Analysis Turnaround Time	-2010		Laborat	ory Contac	Laboratory Contact: Elaine-Walker	Valker		0	Carrier: Courier	ier			7	pages
Seattle, WA 98101			Calendar (C) or Work	Calendar (C) or Work Days (W) W					'n	0	-							
one: (206) 438-2 oject Name: Port vestigation and B	Phone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling		21	21 days						ganic Carbor 1,906, 160,3									
Portland, OR Project #: 60566335	Portland, OR Project #: 60566335 Study: Subsurface Sediment		Other							TO IstoT ,		t	11	2					
Sample Type:								85		rs, PAHs		970	0 -	21 -			-	(2)	
San	Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	PCDD/Fs 161 Fraction	угсіліус	Crain size AS PCB Aroclo FOtal Solids	Atterberg L	-dm -dm	- am	- OM				Sounds Connect	
PDI-SC-S218 -	8 - 6 to 8	8/2/2018	11:35	SC	com/sw	Ð	¥	×	×		1	-			5 .			oambie opecific votes:	Notes:
PDI-SC-S218	8 - 8 to 10	8/2/2018	11:40	sc		ED	H	x	×	-					-				
PDI-SC-S228	8 - 0 to 2.3	8/3/2018	9:20	sc		ED	J	×	x	x x		-		-					
PDI-SC-S221	- 0 to 2	8/3/2018	10:15	sc		ED	4	x	x	x x		-						Alen NO	
PDI-SC-S221 -	- 2 to 4	8/3/2018	10:20	sc	MS/MSD	ED	9	x	x	x x								1	30
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PDI-SC-S221	- 6 to 8	8/3/2018	10:30	sc		ED	4	x	x	x x								>	
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	- to		*	SC		ED		1	×	Ĩ									
	- to			sc		ED		X	X										
ainer Type: V	Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC Preservative: HCI = Hudrochloric Acid H3DAA = Decordecia Acid H4DAA = 2344	P=HDPE, PP=	Polypropy	lene, AG=a	imber glass,	G=glass, R	C=Resin Colu	olur AG	AG WI	WMG WMG	VC								
tion: $D = Disso$	Fraction: $D = Dissolvad, PRT = Particulate, T = Total (unfiltered)$	l (unfiltered)	NILL INITIAL		non			Samp	Sample Disposal	al	_ [- [
ial Instructions	Special Instructions/QC Requirements & Comments: Separate reports for each lab	: Separate	reports	for each	lab				Return To Client	Client	×	X posal By Lab	ab	X chive	X chive For 12 Months	4	λ		
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Tacoma, WA 98424-1317 Ph: 253-922-2310 Fax: 253-922-5047							CH	IAT	N O)F C	CUST	'OD	v										
Client Contact		Project	Contact: An	ny Dahl / Cho	elsey Cook		·				Ray / M				Inate	: 8/3/18						COC No: 1	
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Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling	x	21	days							-	s, Total Organic Carbon, 8270D-SIM, 9060, 160.3	8											
Portland, OR Project #: 60566335 Study: Subsurface Sediment		Other								\$/D6913	, Total O 3270D-SI	TM D431											
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Container Type: WMG=Wide Mouth Glass Jar, F	P=HDPE, PP=	Polypropy	lene, AG=a	umber glass	, G=glass, I	RC=Resin C	olui	AG	AG	WMG	WMG	AG			- 1		-+					 			
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Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC Presenvitive: Hrt - Undersettation 2014, 1944	-HDPE, PP=	Polypropy	lene, AG=a	mber glass,	G=glass, R	C=Resin Colu	<u> </u>	×	M	AG					+	+		
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		Project Contact: Amy Dahl / Chelsey Cook	Tel: (206) 438-2261 / (206) 438-2010	Aualysis Turnaround Time	Days (W) W			OC Sample Initials	MS/MSD ED		E	ED	MS/MSD ED	ED	Ē	8	8			un	Acid		l lab	Date/Time: 8/2 Date/Time: Date/Time: Date/Time:
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TestAmerica-Stattle 5755.8th.Street.Fast	7.13-5 un-Street-Last Tacoma, WA 98424-1317 Phr. 253-922-2310 Fax: 253-922-5047	Cileat Confact	1111 3rd Aue Suite 1600	Seattle, WA 98101	Pitone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Samolino	Portland, OR Project #: 60566335 Study: Subsurface Sediminat	Sample Type:	Sample Identification Sar	PDI-SC-S218 - 6 to 8	PDI-SC-S218 - 8 to 10	PDI-SC-S228 - 0 to 2.3	PDI-SC-S221 - 0 to 2	PDI-SC-S221 - 2 to 4	PDI-SC-S221 - 4 to 6	-		2	70-0001 01-00-014	8 8	Container Type: WMG=Wide Mouth Glass Jar, P=HDPE. PP=Polymenmelene AC====+++++++++++++++++++++++++++++++++	Preservative: HCI = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Mitric Acid	r rucuon: $D = Dissolved, FKI = Farticulate, T = Total (unfiltered)$	Special Instructions/QC Requirements & Comments: Separate reports for each lab	Relinquished by: Relinquished by: Relinquished by: Com

Login Sample Receipt Checklist

Client: AECOM

Login Number: 79329 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	

Job Number: 580-79329-7

List Source: TestAmerica Seattle