

TestAmerica

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: 580-79504-3

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:
8/27/2018 3:56:57 PM

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

elaine.walker@testamericainc.com

LINKS

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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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Case Narrative

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

TestAmerica Job ID: 580-79504-3

Job ID: 580-79504-3

Laboratory: TestAmerica Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Portland Harbor Pre-Remedial Design

Report Number: 580-79504-3

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

The samples were received on 8/10/2018 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 0.5° C, 1.8° C, 1.9° C, 2.3° C, 3.1° C, 4.1° C, 4.3° C, 5.1° C and 5.6° C.

This report contains results for Atterberg Limits, performed by TestAmerica Burlington.

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

Samples PDI-SC-S198-0to2 (580-79504-20), PDI-SC-S238-4to6 (580-79504-43) and PDI-SC-S139-2to4 (580-79504-48) were analyzed for Liquid Limit, Plastic Limit and Plasticity Index of Soils in accordance with ASTM D4318. The samples were analyzed on 08/15/2018.

The following sample is not amenable to Liquid Limits, Plastic Limits, and Plasticity Index determination due to the physical properties of the sample: PDI-SC-S139-2to4 (580-79504-48). Values of zero, zero, and NP have been reported respectively for each determination.

No 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

TestAmerica Job ID: 580-79504-3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 Sample Results

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

TestAmerica Job ID: 580-79504-3

Client Sample ID: PDI-SC-S198-0to2

Lab Sample ID: 580-79504-20

Date Collected: 08/08/18 14:45

Matrix: Solid

Date Received: 08/10/18 14:50

Method: D4318 - Liquid Limit, Plastic Limit and Plasticity Index of Soils

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Liquid Limit	81				NONE			08/15/18 17:22	1
Plastic Limit	43				NONE			08/15/18 17:22	1
Plasticity Index	38				NONE			08/15/18 17:22	1

Client Sample Results

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

TestAmerica Job ID: 580-79504-3

Client Sample ID: PDI-SC-S238-4to6

Lab Sample ID: 580-79504-43

Date Collected: 08/09/18 17:40

Matrix: Solid

Date Received: 08/10/18 14:50

Method: D4318 - Liquid Limit, Plastic Limit and Plasticity Index of Soils

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Liquid Limit	93				NONE			08/15/18 17:22	1
Plastic Limit	49				NONE			08/15/18 17:22	1
Plasticity Index	44				NONE			08/15/18 17:22	1

Client Sample Results

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

TestAmerica Job ID: 580-79504-3

Client Sample ID: PDI-SC-S139-2to4

Lab Sample ID: 580-79504-48

Date Collected: 08/07/18 14:25

Matrix: Solid

Date Received: 08/10/18 14:50

Method: D4318 - Liquid Limit, Plastic Limit and Plasticity Index of Soils

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Liquid Limit	0				NONE			08/15/18 17:22	1
Plastic Limit	0				NONE			08/15/18 17:22	1
Plasticity Index	NP				NONE			08/15/18 17:22	1

Lab Chronicle

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

TestAmerica Job ID: 580-79504-3

Client Sample ID: PDI-SC-S198-0to2

Date Collected: 08/08/18 14:45

Date Received: 08/10/18 14:50

Lab Sample ID: 580-79504-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4318		1	132945	08/15/18 17:22	MAP	TAL BUR

Client Sample ID: PDI-SC-S238-4to6

Date Collected: 08/09/18 17:40

Date Received: 08/10/18 14:50

Lab Sample ID: 580-79504-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4318		1	132945	08/15/18 17:22	MAP	TAL BUR

Client Sample ID: PDI-SC-S139-2to4

Date Collected: 08/07/18 14:25

Date Received: 08/10/18 14:50

Lab Sample ID: 580-79504-48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4318		1	132945	08/15/18 17:22	MAP	TAL BUR

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM

TestAmerica Job ID: 580-79504-3

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	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
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

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
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

Sample Summary

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

TestAmerica Job ID: 580-79504-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-79504-20	PDI-SC-S198-0to2	Solid	08/08/18 14:45	08/10/18 14:50
580-79504-43	PDI-SC-S238-4to6	Solid	08/09/18 17:40	08/10/18 14:50
580-79504-48	PDI-SC-S139-2to4	Solid	08/07/18 14:25	08/10/18 14:50

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SUBSURFACE SEDIMENT CHAIN OF CUSTODY

TestAmerica-Seattle
5755-8th-Street-East
Tacoma, WA 98424-1317
Ph: 253-922-2310 Fax: 253-922-5047

Client Contact
AECOM
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
Portland, OR
Project #: 60566335 Study: Subsurface Sediment
Sample Type:

Project Contact: Amy Dahl / Chelsey Cook
Tel: (206) 438-2261 / (206) 438-2010
Analysis Turnaround Time
Calendar (C) or Work Days (W) W
 21 days
 Other _____

Site Contact: Jennifer Ray
Date: 8/10/18
Carrier: Courier
COC No. 1 of pages

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Afterberg Limits ASTM D4318	Sample Specific Notes:
PDI-SC-S098 - 0 to 1.3	8/9/2018	12:00	SC		ED	4		X	X	X	X		
PDI-SC-S098 - 1.3 to 3.3	8/9/2018	12:05	SC		ED	4		X	X	X	X		
PDI-SC-S098 - 3.3 to 5.3	8/9/2018	12:10	SC		ED	4		X	X	X	X		
PDI-SC-S098 - 3.3 to 5.3D	8/9/2018	12:10	SC		ED	3		X	X	X	X		
PDI-SC-S098 - 5.3 to 7.2	8/9/2018	12:15	SC		ED	4		X	X	X	X		
PDI-SC-S098 - 7.2 to 8.2	8/9/2018	12:20	SC		ED	4		X	X	X	X		
PDI-SC-S103 - 0 to 2	8/9/2018	15:30	SC		ED	4		X	X	X	X		
PDI-SC-S103 - 2 to 4	8/9/2018	15:35	SC		ED	4		X	X	X	X		
PDI-SC-S103 - 4 to 6	8/9/2018	15:40	SC	MS/MSD	ED	6		X	X	X	X		
PDI-SC-S103 - 6 to 8	8/9/2018	15:45	SC		ED	4		X	X	X	X		
PDI-SC-S103 - 8 to 9.7	8/9/2018	15:50	SC		ED	4		X	X	X	X		
PDI-SC-S103 - 9.7 to 10.7	8/9/2018	15:55	SC		ED	4		X	X	X	X		

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal
 Return To Client Disposed By Lab Ship For 12 Months

Special Instructions/QC Requirements & Comments: Separate reports for each lab

Relinquished by: [Signature] Company: AECOM Date/Time: 8/10/18 1400
Relinquished by: [Signature] Company: M.E. Date/Time: 8/10/18 1450
Relinquished by: [Signature] Company: M.E. Date/Time: 8/10/18 1450

Received by: [Signature] Company: M.E. Date/Time: 8/10/18 1400
Received by: [Signature] Company: TAPOT Date/Time: 8/10/18 1450
Received by: [Signature] Company: Date/Time:

41, 101, 31, 2-3, 5-1, 5-6, 4-3, 0-5, 1-8



TestAmerica-Seattle
5755-8th-Street-East
Tacoma, WA 98424-1317
Ph: 253-922-2310 Fax: 253-922-5047

Client Contact
AECOM
1111 3rd Ave Suite 1600
Seattle, WA 98101

Phone: (206) 438-2700 Fax: 1-(866) 495-2288
Project Name: Portland Harbor Pre-Remedial Design
Investigation and Baseline Sampling

Portland, OR
Project #: 60566335 Study: Subsurface Sediment
Sample Type:

SUBSURFACE SEDIMENT CHAIN OF CUSTODY

Project Contact: Amy Dahl / Cheley Cook
Tel: (206) 438-2261 / (206) 438-2010
Analysis Turnaround Time
Calendar (C) or Work Days (W) _ W _
21 days
 Other _____


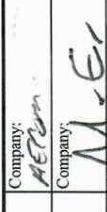


Site Contact: Jennifer Ray
Laboratory Contact: Elaine-Walker
Date: 8/10/18
Carrier: Courier

COC No: 1 of _____ pages

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction			Sample Specific Notes:
							PCDD/FS 1613B	Archive	Grain size ASTM D7928/D6913	
PDI-SC-S103 - 10.7 to 13.4	8/9/2018	16:00	SC		ED	4	X	X	X	
PDI-SC-S176 - 0 to 2	8/8/2018	16:20	SC		ED	4	X	X	X	
PDI-SC-S176 - 2 to 4	8/8/2018	16:25	SC	MS/MSD	ED	6	X	X	X	
PDI-SC-S176 - 4 to 5.5	8/8/2018	16:30	SC		ED	4	X	X	X	
PDI-SC-S176 - 5.5 to 7.5	8/8/2018	16:35	SC		ED	4	X	X	X	
PDI-SC-S176 - 7.5 to 9.5	8/8/2018	16:40	SC		ED	4	X	X	X	
PDI-SC-S188 - 0 to 1.5	8/8/2018	17:00	SC		ED	4	X	X	X	
PDI-SC-S198 - 0 to 2	8/8/2018	14:45	SC		ED	5	X	X	X	
PDI-SC-S198 - 2 to 4	8/8/2018	14:50	SC		ED	4	X	X	X	
PDI-SC-S198 - 2 to 4D	8/8/2018	14:50	SC		ED	3	X	X	X	
PDI-SC-S198 - 4 to 6	8/8/2018	14:55	SC		ED	4	X	X	X	
PDI-SC-S198 - 6 to 8	8/8/2018	15:00	SC		ED	4	X	X	X	

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Colour
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
Fraction: D = Dissolved, PFI = Particulate, T = Total (unfiltered)

Sample Disposal
 Return To Client Dispose By Lab Ship For 12 Months

Relinquished by:  Company: AECOM Date/Time: 8/10/18 1400
Relinquished by:  Company: M.E. Date/Time: 8/10/18 1450
Relinquished by:  Company: M.E. Date/Time: 8/10/18 1400
Relinquished by:  Company: TAROR Date/Time: 8/10/19 1450

Special Instructions/QC Requirements & Comments: Separate reports for each lab



**SUBSURFACE SEDIMENT
CHAIN OF CUSTODY**

TestAmerica-Seattle
5755-8th-Street-East
Tacoma, WA 98424-1317
Ph: 253-922-2310 Fax: 253-922-5047

Client Contact
AECOM
1111 3rd Ave Suite 1600
Seattle, WA 98101

Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling

Project #: 60566335 Study: Subsurface Sediment

Project Contact: Amy Dahl / Chelsey Cook
Tel: (206) 438-2261 / (206) 438-2010
Analysis Turnaround Time
Calendar (C) or Work Days (W) _W_

21 days

Other _____

COC No. 1 of _____ pages

Date: 8/10/18
Carrier: Courier

Site Contact: Jennifer Ray
Laboratory Contact: Elaine-Walker

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction			Alterberg Limits ASTM D4318	Sample Specific Notes:
							PCDFs/1613B	Archive	Grain size ASTM D7928/D913		
PDI-SC-S198 - 8 to 10	8/8/2018	15:05	SC		ED	4	X	X	X		
PDI-SC-S198 - 10 to 11.8	8/8/2018	15:10	SC		ED	4	X	X	X		
PDI-SC-S213 - 0 to 2	8/9/2018	9:50	SC		ED	4	X	X	X		
PDI-SC-S213 - 2 to 4	8/9/2018	9:55	SC	MS/MSD	ED	6	X	X	X		
PDI-SC-S213 - 4 to 6	8/9/2018	10:00	SC		ED	4	X	X	X		
PDI-SC-S213 - 6 to 8	8/9/2018	10:05	SC		ED	4	X	X	X		
PDI-SC-S213 - 8 to 10	8/9/2018	10:10	SC		ED	4	X	X	X		
PDI-SC-S213 - 10 to 11.8	8/9/2018	10:15	SC		ED	4	X	X	X		
PDI-SC-S213 - 11.8 to 12.8	8/9/2018	10:20	SC		ED	4	X	X	X		
PDI-SC-S229 - 0 to 2	8/9/2018	19:40	SC		ED	4	X	X	X		
PDI-SC-S229 - 2 to 4	8/9/2018	19:45	SC		ED	4	X	X	X		
PDI-SC-S229 - 4 to 6	8/9/2018	19:50	SC		ED	4	X	X	X		

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal Return To Client Ship To Lab Ship For 12 Months

Special Instructions/QC Requirements & Comments: Separate reports for each lab

Relinquished by:	Company: M.E.	Date/Time: 8/10/18 1400
Relinquished by:	Company: M.E.	Date/Time: 8/10/18 1450
Relinquished by:	Company: M.E.	Date/Time: 8/10/18 1450



**SUBSURFACE SEDIMENT
CHAIN OF CUSTODY**

TestAmerica-Seattle
5755-8th-Street-East
Tacoma, WA 98424-1317
Ph: 253-922-2310 Fax: 253-922-5047

Client Contact
AECOM
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 Contact: Amy Dahl / Cheley Cook
Tel: (206) 438-2261 / (206) 438-2010
Analysis Turnaround Time
Calendar (C) or Work Days (W) _W_

Site Contact: Jennifer Ray
Laboratory Contact: Elaine Walker
Date: 8/10/18
Carrier: Courier
COC No: 1 of pages

21 days Other

Portland, OR

Project #: 60566335 Study: Subsurface Sediment

Sample Type:

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction		Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160,3	Afterberg Limits ASTM D4318	Sample Specific Notes:
							PCDD/Fs 1613B	AG					
PDI-SC-S229 - 6 to 8	8/9/2018	19:55	SC		ED	4		X					
PDI-SC-S229 - 8 to 9.9	8/9/2018	20:00	SC		ED	4		X					
PDI-SC-S229 - 9.9 to 12.5	8/9/2018	20:05	SC		ED	4		X					
PDI-SC-S238 - 0 to 2	8/9/2018	17:30	SC		ED	4		X					
PDI-SC-S238 - 2 to 4	8/9/2018	17:35	SC		ED	4		X					
PDI-SC-S238 - 2 to 4D	8/9/2018	17:35	SC		ED	3		X					
PDI-SC-S238 - 4 to 6	8/9/2018	17:40	SC		ED	5		X					
PDI-SC-S238 - 6 to 8	8/9/2018	17:45	SC		ED	4		X					
PDI-SC-S238 - 8 to 10	8/9/2018	17:50	SC		ED	4		X					
PDI-SC-S238 - 10 to 12.4	8/9/2018	17:55	SC		ED	4		X					
PDI-SC-S238 - 12.4 to 13.4	8/9/2018	18:00	SC		ED	4		X					
PDI-SC-S139 - 2 to 4	8/7/2018	14:25	SC		ED	1							

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Colour
 Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
 Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Special Instructions/QC Requirements & Comments: **Separate reports for each lab**

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AECOM	8/10/18 1400		M.E.	8/10/18 1400
	M.E.	8/10/18 1450		ARCO	8/10/18 1450

SUBSURFACE SEDIMENT

CHAIN OF CUSTODY

TestAmerica-Seattle 5755-8th-Street-East Tacoma, WA 98424-1317 PH: 253-922-2310 Fax: 253-922-5047				Project Contact: Amy Dahl / Chelsey Cook Tel: (206) 438-2261 / (206) 438-2010 Analysis Turnaround Time				Date: 8/10/18 Carrier: Courier		COC No: 1 of _____ pages		
Client Contact AECOM 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 Portland, OR Project #: 60566335 Study: Subsurface Sediment				Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker		Date: 8/10/18 Carrier: Courier						
Calendar (C) or Work Days (W) _____ W 21 days <input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other _____				PCDD/Fs 1613B Archive Grain size ASTM D7928/D6913 PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 1603 Aterberg Limits ASTM D4318								
Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	WG-PCBA	WG-PAHs	WG-D/F	WG-TOC	Sample Specific Notes:	
8/9/2018	8:00	W		AC	69		x	x	x	x		
8/9/2018	19:00	W		ED			x	x	x	x		

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Coll
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Return To Client Disposed By Lab Ship For 12 Months

Sample Disposal
 Return To Client


Relinquished by: Company: AECOM Date/Time: 8/10/18 1400	Received by: Company: M-E Date/Time: 8/10/18 1400
Relinquished by: Company: M-E Date/Time: 8/10/18 1450	Received by: Company: AECOM Date/Time: 8/10/18 1450



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Tacoma, WA 98424-1317
Ph: 253-922-2310 Fax: 253-922-5047

SUBSURFACE SEDIMENT CHAIN OF CUSTODY

Client Contact	Project Contact: Amy Dahl / Chelsey Cook Tel: (206) 438-2261 / (206) 438-2010	Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker	Date: 8/10/18	COC No: 1 _____ of _____ pages
AECOM 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	Analysis Turnaround Time Calendar (C) or Work Days (W) W		 580-79504 Chain of Custody	
Portland, OR	<input checked="" type="checkbox"/> 21 days			
Project #: 60566335 Study: Subsurface Sediment	<input type="checkbox"/> Other _____			
Sample Type:				



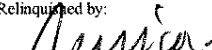



Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCDD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM1, 9060, 160.3	Atterberg Limits ASTM D4318	Sample Specific Notes:
PDI-SC-S098 - 0 to 1.3	8/9/2018	12:00	SC		ED	4		x	x	x	x		
PDI-SC-S098 - 1.3 to 3.3	8/9/2018	12:05	SC		ED	4		x	x	x	x		
PDI-SC-S098 - 3.3 to 5.3	8/9/2018	12:10	SC		ED	4		x	x	x	x		
PDI-SC-S098 - 3.3 to 5.3D	8/9/2018	12:10	SC		ED	3		x	x	x	x		
PDI-SC-S098 - 5.3 to 7.2	8/9/2018	12:15	SC		ED	4		x	x	x	x		
PDI-SC-S098 - 7.2 to 8.2	8/9/2018	12:20	SC		ED	4		x	x	x	x		
PDI-SC-S103 - 0 to 2	8/9/2018	15:30	SC		ED	4		x	x	x	x		
PDI-SC-S103 - 2 to 4	8/9/2018	15:35	SC		ED	4		x	x	x	x		
PDI-SC-S103 - 4 to 6	8/9/2018	15:40	SC	MS/MSD	ED	6		x	x	x	x		
PDI-SC-S103 - 6 to 8	8/9/2018	15:45	SC		ED	4		x	x	x	x		
PDI-SC-S103 - 8 to 9.7	8/9/2018	15:50	SC		ED	4		x	x	x	x		
PDI-SC-S103 - 9.7 to 10.7	8/9/2018	15:55	SC		ED	4		x	x	x	x		

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Container
 Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
 Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal: Return To Client Posed By Lab Archive For 12 Months

Special Instructions/QC Requirements & Comments: **Separate reports for each lab**

4.1, 1.9, 3.1, 2.3, 5.1, 5.6, 4.3, 0.5, 1.8

Relinquished by: 	Company: AECOM	Date/Time: 8/10/18 1400	Received by: 	Company: M.E.	Date/Time: 8/10/18 1400
Relinquished by: 	Company: M.E.	Date/Time: 8/10/18 1450	Received by: 	Company: TAPOR	Date/Time: 8/10/18 1450
Relinquished by: 	Company: TAPOR	Date/Time: 8/13/18 1700	Received by: 	Company: SCATA	Date/Time: 8/14/18 0945

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SUBSURFACE SEDIMENT CHAIN OF CUSTODY

Client Contact	Project Contact: Amy Dahl / Chelsey Cook Tel: (206) 438-2261 / (206) 438-2010	Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker	Date: 8/10/18	COC No: 1 _____ of _____ pages
AECOM 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	Analysis Turnaround Time			
Portland, OR Project #: 60566335 Study: <u>Subsurface Sediment</u>	Calendar (C) or Work Days (W) <u>W</u>			
Sample Type:	<input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other _____			

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCDD/Fs 1613B	Aroclor	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8982A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318	Sample Specific Notes:
PDI-SC-S103 - 10.7 to 13.4	8/9/2018	16:00	SC		ED	4		x	x	x	x		
PDI-SC-S176 - 0 to 2	8/8/2018	16:20	SC		ED	4		x	x	x	x		
PDI-SC-S176 - 2 to 4	8/8/2018	16:25	SC	MS/MSD	ED	6		x	x	x	x		
PDI-SC-S176 - 4 to 5.5	8/8/2018	16:30	SC		ED	4		x	x	x	x		
PDI-SC-S176 - 5.5 to 7.5	8/8/2018	16:35	SC		ED	4		x	x	x	x		
PDI-SC-S176 - 7.5 to 9.5	8/8/2018	16:40	SC		ED	4		x	x	x	x		
PDI-SC-S188 - 0 to 1.5	8/8/2018	17:00	SC		ED	4		x	x	x	x		
PDI-SC-S198 - 0 to 2	8/8/2018	14:45	SC		ED	5		x	x	x	x	x	
PDI-SC-S198 - 2 to 4	8/8/2018	14:50	SC		ED	4		x	x	x	x		
PDI-SC-S198 - 2 to 4D	8/8/2018	14:50	SC		ED	3		x	x	x	x		
PDI-SC-S198 - 4 to 6	8/8/2018	14:55	SC		ED	4		x	x	x	x		
PDI-SC-S198 - 6 to 8	8/8/2018	15:00	SC		ED	4		x	x	x	x		

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Color

Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid

Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal: Return To Client Disposal By Lab Archive For 12 Months

Special Instructions/QC Requirements & Comments: Separate reports for each lab

Relinquished by: <i>[Signature]</i>	Company: AECOM	Date/Time: 8/10/18 1400	Received by: <i>[Signature]</i>	Company: M.E.	Date/Time: 8/10/18 1400
Relinquished by: <i>[Signature]</i>	Company: M.E.	Date/Time: 8/10/18 1450	Received by: <i>[Signature]</i>	Company: TAROR	Date/Time: 8/10/18 1450
Relinquished by: <i>[Signature]</i>	Company: TAROR	Date/Time: 8/13/18 1700	Received by: <i>[Signature]</i>	Company: SEA TR	Date/Time: 8/14/18 0905

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SUBSURFACE SEDIMENT CHAIN OF CUSTODY

Client Contact AECOM 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 Portland, OR Project #: 60566335 Study: Subsurface Sediment	Project Contact: Amy Dahl / Chelsey Cook Tel: (206) 438-2261 / (206) 438-2010 Analysis Turnaround Time Calendar (C) or Work Days (W) W <input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other _____	Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker Date: 8/10/18	COC No: 1 of _____ pages <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;"></td><td style="width: 5%;">PCDD/Fs 1613B</td><td style="width: 5%;">Archive</td><td style="width: 5%;">Grain size ASTM D7928/D6913</td><td style="width: 5%;">PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3</td><td style="width: 5%;">Atterberg Limits ASTM D4318</td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td></tr> </table>		PCDD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318														
	PCDD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318																		

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCDD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318											Sample Specific Notes:																		
PDI-SC-S198 - 8 to 10	8/8/2018	15:05	SC		ED	4		x	x	x	x																														
PDI-SC-S198 - 10 to 11.8	8/8/2018	15:10	SC		ED	4		x	x	x	x																														
PDI-SC-S213 - 0 to 2	8/9/2018	9:50	SC		ED	4		x	x	x	x																														
PDI-SC-S213 - 2 to 4	8/9/2018	9:55	SC	MS/MSD	ED	6		x	x	x	x																														
PDI-SC-S213 - 4 to 6	8/9/2018	10:00	SC		ED	4		x	x	x	x																														
PDI-SC-S213 - 6 to 8	8/9/2018	10:05	SC		ED	4		x	x	x	x																														
PDI-SC-S213 - 8 to 10	8/9/2018	10:10	SC		ED	4		x	x	x	x																														
PDI-SC-S213 - 10 to 11.8	8/9/2018	10:15	SC		ED	4		x	x	x	x																														
PDI-SC-S213 - 11.8 to 12.8	8/9/2018	10:20	SC		ED	4		x	x	x	x																														
PDI-SC-S229 - 0 to 2	8/9/2018	19:40	SC		ED	4		x	x	x	x																														
PDI-SC-S229 - 2 to 4	8/9/2018	19:45	SC		ED	4		x	x	x	x																														
PDI-SC-S229 - 4 to 6	8/9/2018	19:50	SC		ED	4		x	x	x	x																														

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Colour
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal
 Return To Client Disposal By Lab Archive For 12 Months

Special Instructions/QC Requirements & Comments: Separate reports for each lab

Relinquished by:	Company: AECOM	Date/Time: 8/16/18 1400	Received by:	Company: M-E	Date/Time: 8/16/18 1400
Relinquished by:	Company: M.E.	Date/Time: 8/10/18 1450	Received by:	Company: TAPOR	Date/Time: 8/10/18 1450
Relinquished by:	Company: TAPOR	Date/Time: 8/13/18 1700	Received by:	Company: SEA TA	Date/Time: 8/14/18 0845

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Tacoma, WA 98424-1317
Ph: 253-922-2310 Fax: 253-922-5047

SUBSURFACE SEDIMENT CHAIN OF CUSTODY

Client Contact	Project Contact: Amy Dahl / Chelsey Cook Tel: (206) 438-2261 / (206) 438-2010	Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker	Date: 8/10/18 Carrier: Courier	COC No: 1 _____ of _____ pages
AECOM 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	Analysis Turnaround Time			
Portland, OR Project #: 60566335 Study: Subsurface Sediment	Calendar (C) or Work Days (W) - W			
Sample Type:	<input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other _____			

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction					Sample Specific Notes					
							PCDD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318						
PDI-SC-S229 - 6 to 8	8/9/2018	19:55	SC		ED	4	x	x	x	x							
PDI-SC-S229 - 8 to 9.9	8/9/2018	20:00	SC		ED	4	x	x	x	x							
PDI-SC-S229 - 9.9 to 12.5	8/9/2018	20:05	SC		ED	4	x	x	x	x							
PDI-SC-S238 - 0 to 2	8/9/2018	17:30	SC		ED	4	x	x	x	x							
PDI-SC-S238 - 2 to 4	8/9/2018	17:35	SC		ED	4	x	x	x	x							
PDI-SC-S238 - 2 to 4D	8/9/2018	17:35	SC		ED	3	x	x	x	x							
PDI-SC-S238 - 4 to 6	8/9/2018	17:40	SC		ED	5	x	x	x	x	x						
PDI-SC-S238 - 6 to 8	8/9/2018	17:45	SC		ED	4	x	x	x	x							
PDI-SC-S238 - 8 to 10	8/9/2018	17:50	SC		ED	4	x	x	x	x							
PDI-SC-S238 - 10 to 12.4	8/9/2018	17:55	SC		ED	4	x	x	x	x							
PDI-SC-S238 - 12.4 to 13.4	8/9/2018	18:00	SC		ED	4	x	x	x	x							
PDI-SC-S139 - 2 to 4	8/7/2018	14:25	SC		ED	1											x

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Colour

Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid

Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal
 Return To Client Dispose By Lab Store For 12 Months

Special Instructions/QC Requirements & Comments: **Separate reports for each lab**

Relinquished by:	Company: <i>AECOM</i>	Date/Time: <i>8/10/18 1400</i>	Received by:	Company: <i>M. E.</i>	Date/Time: <i>8/10/18 1400</i>
Relinquished by:	Company: <i>M. E.</i>	Date/Time: <i>8/10/18 1450</i>	Received by:	Company: <i>TAPOR</i>	Date/Time: <i>8/10/18 1450</i>
Relinquished by:	Company: <i>TAPOR</i>	Date/Time: <i>8/13/18 1700</i>	Received by:	Company: <i>SEA TA</i>	Date/Time: <i>8/14/18 0945</i>

I R 5 = 4.8 / 4.8 w/c's.

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 Tacoma, WA 98424-1317
 Ph: 253-922-2310 Fax: 253-922-5047

SUBSURFACE SEDIMENT CHAIN OF CUSTODY

Client Contact	Project Contact: Amy Dahl / Chelsey Cook Tel: (206) 438-2261 / (206) 438-2010	Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker	Date: 8/10/18	COC No: 1
AECOM 1111 3rd Ave Suite 1600 Seattle, WA 98101	Analysis Turnaround Time Calendar (C) or Work Days (W) W		Carrier: Courier	of _____ pages
Phone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling	<input checked="" type="checkbox"/> 21 days			
Portland, OR	<input type="checkbox"/> Other _____			
Project #: 60566335 Study: Subsurface Sediment				
Sample Type:				

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCDD/Fs 1613B	Archive	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318	WQ-PCBA	WQ-PAHs	WQ-DF	WQ-TOC	WQ-PRT, PRT	Cancel Per Action 8/14/18 (K.P.)	Sample Specific Notes:
PDI-RB-SS-180809	8/9/2018	8:00	W		AC	6							x	x	x	x			
PDI-RB-SS-180809-1900	8/9/2018	19:00	W		ED	9							x	x	x	x	X		

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Container
 Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid

Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal: Return To Client Dispose By Lab Store For 12 Months

Special Instructions/QC Requirements & Comments: **Separate reports for each lab**

Relinquished by:	Company: AECOM	Date/Time: 8/10/18 1400	Received by:	Company: M-E	Date/Time: 8/10/18 1400
Relinquished by:	Company: M-E	Date/Time: 8/10/18 1450	Received by:	Company: TAPOR	Date/Time: 8/10/18 1450
Relinquished by:	Company: TAPOR	Date/Time: 8/13/18 1700	Received by:	Company: SPA TA	Date/Time: 8/14/18 0945



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab P/M: Walker, Elaine M							
Client Contact: Elaine Walker		E-Mail: elaine.walker@testamerica.com							
Shipping/Receiving		State of Origin: Oregon							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):							
Address: 30 Community Drive, Suite 11, South Burlington VT, 05403		Job #: 580-79504-1							
Phone: 802-660-1990 (Tel) 802-660-1919 (Fax)		Preservation Codes:							
Email:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:							
Project Name: Portland Harbor Pre-Remedial Design		M - Hexane N - None O - AshNaO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCAAA W - pH 4-5 Z - other (specify)							
Site:		Total Number of Containers							
Due Date Requested: 8/28/2018		Analysis Requested							
TAT Requested (days):		Field Filtered Sample (Yes or No)							
PO #:		Perform MS/MSD (Yes or No)							
WO #:		D4318							
Project #: 58012120		Special Instructions/Note:							
SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, AsAP)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
PDI-SC-S199-0to2 (580-79504-20)	8/9/18	14:45 Pacific	Solid	Solid		X	X	1	
PDI-SC-S238-4to6 (580-79504-43)	8/8/18	17:40 Pacific	Solid	Solid		X	X	1	
PDI-SC-S139-2to4 (580-79504-48)	8/8/18	14:25 Pacific	Solid	Solid		X	X	1	
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> <p>Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____</p> <p>Relinquished by: _____ Date/Time: 8/21/18 13:50 Company: AARON</p> <p>Relinquished by: _____ Date/Time: 8/14/18 10:30 Company: A Burl</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ No <input type="checkbox"/> #s NO #s</p> <p>Cooler Temperature(s) °C and Other Remarks: 31</p>									

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part #: 159489-134 RIT2 EXP 03/19 *

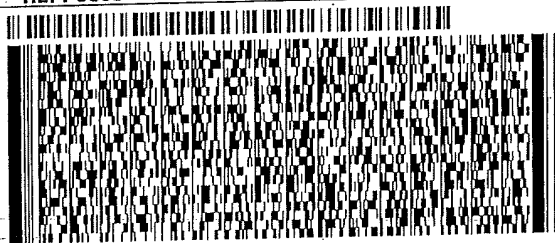
ORIGIN ID: BNOA (503) 906-9240
SAMPLE CONTROL
TESTAMERICA PORTLAND
8920 SW GEMINI DR
BUILDING 7
BEAVERTON, OR 970087145
UNITED STATES US

SHIP DATE: 13AUG18
ACTWGT: 30.00 LB
CAD: 0996922/CAFE3210

BILL RECIPIENT

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

(802) 680-1990
REF: S580-30219



FedEx
Express

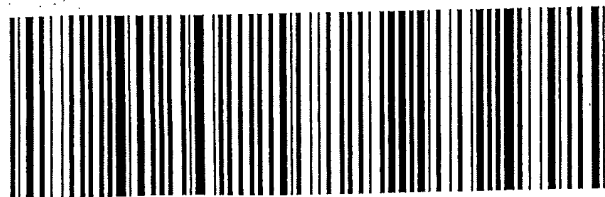


TRK# 4423 0750 8910
0201

TUE - 14 AUG 10:30A
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-79504-3

Login Number: 79504

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.	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	



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-79504-3

Login Number: 79504

List Number: 2

Creator: Johnson, Eleanor E

List Source: TestAmerica Burlington

List Creation: 08/14/18 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
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	3.1°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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

