

# 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: 580-79444-3

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:  
8/26/2018 4:54:00 PM

Elaine Walker, Project Manager II  
(253)248-4972  
[elaine.walker@testamericainc.com](mailto:elaine.walker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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.*

1

2

3

4

5

6

7

8

9

10



# 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 . . . . .	9
Receipt Checklists . . . . .	20

# Case Narrative

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

TestAmerica Job ID: 580-79444-3

**Job ID: 580-79444-3**

**Laboratory: TestAmerica Seattle**

**Narrative**

## CASE NARRATIVE

**Client: AECOM**

**Project: Portland Harbor Pre-Remedial Design**

**Report Number: 580-79444-3**

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 8/8/2018 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.4° C, 1.5° C, 1.6° C, 1.7° C, 3.9° C and 4.2° 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**

**Sample PDI-SC-S105-4to5.6 (580-79444-33) was 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-S105-4to5.6 (580-79444-33). 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: 580-79444-3

## 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: 580-79444-3

**Client Sample ID: PDI-SC-S105-4to5.6**

**Lab Sample ID: 580-79444-33**

**Date Collected: 08/08/18 09:05**

**Matrix: Solid**

**Date Received: 08/08/18 15:30**

**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: 580-79444-3

**Client Sample ID: PDI-SC-S105-4to5.6**

**Lab Sample ID: 580-79444-33**

**Date Collected: 08/08/18 09:05**

**Matrix: Solid**

**Date Received: 08/08/18 15:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D4318		1	132944	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: 580-79444-3

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: 580-79444-3

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-79444-33	PDI-SC-S105-4to5.6	Solid	08/08/18 09:05	08/08/18 15:30

---

1

2

3

4

5

6

7

8


9

10



# SUBSURFACE SEDIMENT CHAIN OF CUSTODY

<b>TestAmerica-Seattle</b> 5755-8th-Street-East Tacoma, WA 98424-1317 Ph: 253-922-2310 Fax: 253-922-5047	<b>Client Contact</b> AECOM 1111 3rd Ave Suite 1600 Seattle, WA 98101 Phone: (206) 438-2700 Fax: (206) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling Portland, OR Project #: 60566335 Study: Subsurface Sediment Sample Type:	<b>Project Contact: Amy Dahl / Chelsey Cook</b> Tel: (206) 438-2261 / (206) 438-2010 Analysis Turnaround Time Calendar (C) or Work Days (W) <u>W</u> 21 days <input checked="" type="checkbox"/> Calendar (C) <input type="checkbox"/> Other	Date: 8/8/18 Carrier: Courier COC No. 1 of 1 pages	Site Contact: Jennifer Ray Laboratory Contact: Elaine-Walker Aterberg Limits ASTM D4318 Total Solids 8082A, 8270D-SIM, 9060, 160.3 PCB Aroclors, PAHs, Total Organic Carbon, Grain Size ASTM D7928/D6913 Archite PCD/Fs 1613B Fraction	
Sample Identification					
Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.
8/6/2018	15:05	SC		ED	4
8/6/2018	15:15	SC		ED	
8/6/2018	15:10	SC		ED	
8/6/2018	14:50	SC		ED	
8/6/2018	14:55	SC		ED	
8/6/2018	15:20	SC		ED	
8/6/2018	15:00	SC		ED	
8/6/2018	15:25	SC		ED	
8/7/2018	09:45	SC		ED	
8/7/2018	9:50	SC		ED	
8/7/2018	9:55	SC		ED	
8/7/2018	10:00	SC		ED	



580-79444 Chain of Custody

Return To Client   
  Disposal By Lab   
  Archive For 12 Months

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

106, 107, 104, 402, 105, 309

Relinquished by:	<i>[Signature]</i>	Date/Time:	8/8/18 1445	Company:	M-E.
Relinquished by:	<i>[Signature]</i>	Date/Time:	8/8/18 1530	Company:	AFOR
Relinquished by:	<i>[Signature]</i>	Date/Time:		Company:	



# SUBSURFACE SEDIMENT CHAIN OF CUSTODY

**TestAmerica-Seattle**  
 5755-8th-Street-East  
 Tacoma, WA 98424-1317  
 Ph: 252-922-2310 Fax: 252-922-5047

**Client Contact**  
 AECOM  
 11111 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: 8/8/18  
 Carrier: Courier

**Laboratory Contact:** Elaine Walker  
 Grain size ASTM D7928/6913  
 PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 1603  
 Aterberg Limits ASTM D4318

COC No: 1 of 9 pages

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction		Sample Specific Notes:
							PCC/RS 1613B	Archie	
PDI-SC-S222 - 5 to 7.2D	8/7/2018	10:00	SC		ED	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S222 - 7.2 to 9.2	8/7/2018	10:05	SC	MS/MSD	ED	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S222 - 9.2 to 11.2	8/7/2018	10:10	SC		ED	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S222 - 11 to 13.2	8/7/2018	10:15	SC		ED	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S222 - 13 to 15.2	8/7/2018	10:20	SC		ED	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S248 - 0 to 2	8/7/2018	16:45	SC		ED	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S248 - 2 to 4	8/7/2018	16:50	SC	MS/MSD	ED		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S248 - 4 to 6.2	8/7/2018	16:55	SC		ED		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S219 - 0 to 2	8/7/2018	11:40	SC		ED		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S219 - 2 to 4	8/7/2018	11:45	SC		ED		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S219 - 4 to 5.2	8/7/2018	11:50	SC		ED		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PDI-SC-S139 - 0 to 2	8/7/2018	14:20	SC		ED		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Relinquished by:	Date/Time	Company:	Received by:	Date/Time	Company:
<i>[Signature]</i>	8/8/18 1445	M.E.	<i>[Signature]</i>	8/8/18 1445	M.E.
<i>[Signature]</i>	8/8/18 1530	M.E.	<i>[Signature]</i>	8/8/18 1530	M.E.
<i>[Signature]</i>			<i>[Signature]</i>		

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  
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: 8/8/18  
Carrier: Courier

**Laboratory Contact:** Elaine Walker  
Atterberg Limits ASTM D4318  
Total Solids 8082A, 8270D-SIM, 9060, 1603  
PCB Aroclors, PAHs, Total Organic Carbon,  
Grain size ASTM D7928/D6913  
Archive  
PCDD's 1613B  
Fretton

COC No. 1  
3 of 4 pages

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Sample Specific Notes:
PDI-SC-S139 - 0 to 2	8/7/2018	14:20	SC		ED	4	
PDI-SC-S139 - 2 to 4.1	8/7/2018	14:25	SC	MS/MSD	ED	3	
PDI-SC-S139 - 4.1 to 5.9	8/7/2018	14:30	SC		ED	3	
PDI-SC-S139 - 4.1 to 5.9D	8/7/2018	14:30	SC		ED	4	
PDI-SC-S117 - 0 to 2	8/7/2018	16:00	SC		ED		
PDI-SC-S117 - 2 to 4	8/7/2018	16:05	SC		ED		
PDI-SC-S117 - 4 to 6	8/7/2018	16:10	SC		ED		
PDI-SC-S219 - 0 to 2	8/7/2018	11:40	SC		ED		
PDI-SC-S219 - 2 to 4	8/7/2018	11:45	SC		ED		
PDI-SC-S219 - 4 to 5.2	8/7/2018	11:50	SC		ED		
PDI-SC-S105 - 0 to 2	8/8/2018	8:55	SC		ED		
PDI-SC-S105 - 2 to 4	8/8/2018	9:00	SC	MS/MSD	ED	6	

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

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

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AECOM	8/8/18 14:45		M.E.	8/8/18 14:45
	M.E.	8/8/18 15:30		TAPAR	8/8/18 15:30
	AECOM	8/8/18 15:30		M.E.	8/8/18 15:30

**SUBSURFACE SEDIMENT  
CHAIN OF CUSTODY**

<b>TestAmerica-Seattle</b> 5755-8th-Street-East Tacoma, WA 98424-1317 Ph: 253-922-2310 Fax: 253-922-5047	<b>Client Contact</b> 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:	<b>Project Contact: Amy Dahl / Chelsey Cook</b> Tel: (206) 438-2261 / (206) 438-2010 Analysis Turnaround Time Calendar (C) or Work Days (W) <u>W</u> <input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other	Date: 8/8/18 Carrier: Courier Laboratory Contact: Elaine-Walker Date of pages: 4 of 5
Site Contact: Jennifer Ray Grain size ASTM D7928/D6913 PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 1603 Aterberg Limits ASTM D4318			
Fraction PCD/6s 1613B Archive WMG AG WMG AG WMG AG WMG AG WMG AG WMG AG			
Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Dispose By Lab <input checked="" type="checkbox"/> Archive For 12 Months			
Special Instructions/QC Requirements & Comments: <b>Separate reports for each lab</b>			

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.
PDI-SC-S105 - 4 to 5.6	8/8/2018	9:05	SC		ED	5
PDI-SC-S105 - 5.6 to 6.6	8/8/2018	9:10	SC		ED	5
PDI-SC-S191 - 0 to 2	8/8/2018	10:15	SC		ED	4
PDI-SC-S191 - 2 to 4	8/8/2018	10:20	SC		ED	4
PDI-SC-S191 - 4 to 6	8/8/2018	10:25	SC		ED	4
PDI-SC-S191 - 6 to 8.1	8/8/2018	10:30	SC		ED	4
PDI-SC-S192 - 0 to 1.5	8/8/2018	11:20	SC		ED	4
PDI-SC-S192 - 1.5 to 3	8/8/2018	11:25	SC		ED	4
PDI-SC-S192 - 3 to 4.2	8/8/2018	11:30	SC		ED	4
PDI-RB-SS-180807	8/7/2018	13:00	W		ED	7
PDI-RB-SS-180808	8/8/2018	10:55	W		ED	7
<b>PDI-105-SS-180806</b>	<b>8/6/18</b>		<b>W</b>		<b>ED</b>	<b>7</b>

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

Relinquished by:	Date/Time:	Company:	Date/Time:
	8/8/18 1445	M.E.	8/8/18 1445
Relinquished by:	Date/Time:	Company:	Date/Time:
	8/8/18 1530	TAPOR	8/8/18 1530
Relinquished by:	Date/Time:	Company:	Date/Time:
		M.E.	



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

## SUBSURFACE SEDIMENT CHAIN OF CUSTODY

<b>Client Contact</b>	<b>Project Contact: Amy Dahl / Chelsey Cook</b>	<b>Site Contact: Jennifer Ray</b>	<b>Date: 8/8/18</b>
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:	Tel: (206) 438-2261 / (206) 438-2010	Laboratory Contact: Elaine-Walker	Carrier: Courier
<b>Analysis Turnaround Time</b>			
Calendar ( C ) or Work Days ( W ) <u>W</u>			
<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	Archive	Grain size ASTM D7928/D6913	PCB Anomers, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 160.3	Atterberg Limits ASTM D4318	Sample Specific Notes:																											
PDI-SC-S226 - 6 to 8	8/6/2018	15:05	SC		ED	4		x	x	x	x																													
PDI-SC-S226 - 10 to 12	8/6/2018	15:15	SC		ED			x	x	x	x																													
PDI-SC-S226 - 8 to 10	8/6/2018	15:10	SC		ED			x	x	x	x																													
PDI-SC-S226 - 0 to 2	8/6/2018	14:50	SC		ED			x	x	x	x																													
PDI-SC-S226 - 2 to 4	8/6/2018	14:55	SC		ED			x	x	x	x																													
PDI-SC-S226 - 12 to 14	8/6/2018	15:20	SC		ED			x	x	x	x																													
PDI-SC-S226 - 4 to 6	8/6/2018	15:00	SC		ED			x	x	x	x																													
PDI-SC-S226 - 14 to 15.8	8/6/2018	15:25	SC		ED			x	x	x	x																													
PDI-SC-S222 - 0 to 2	8/7/2018	08:45	SC		ED			x	x	x	x																													
PDI-SC-S222 - 2 to 4	8/7/2018	9:50	SC		ED			x	x	x	x																													
PDI-SC-S222 - 4 to 5	8/7/2018	9:55	SC		ED			x	x	x	x																													
PDI-SC-S222 - 5 to 7.2	8/7/2018	10:00	SC		ED			x	x	x	x																													



580-79444 Chain of Custody

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

106, 107, 004, 402, 105, 309

Relinquished by: [Signature]	Company: AECOM	Date/Time: 8/8/18 1445	Received by: [Signature]	Company: M-E	Date/Time: 8/8/18 1445
Relinquished by: [Signature]	Company: M-E	Date/Time: 8/8/18 1530	Received by: [Signature]	Company: TAPOR	Date/Time: 8/8/18 1530
Relinquished by: [Signature]	Company: TAPOR	Date/Time: 8/8/18 1700	Received by: [Signature]	Company: TASE2	Date/Time: 8-9-18 0920

IR9

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

**SUBSURFACE SEDIMENT  
 CHAIN OF CUSTODY**

<b>Client Contact</b>		<b>Project Contact: Amy Dahl / Chelsey Cook</b>			<b>Site Contact: Jennifer Ray</b>			<b>Date: 8/8/18</b>			<b>COC No: 1</b>		
AECOM 1111 3rd Ave Suite 1600 Seattle, WA 98101		Tel: (206) 438-2261 / (206) 438-2010			Laboratory Contact: Elaine-Walker			Carrier: Courier			7 of 9 pages		
Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling		Analysis Turnaround Time Calendar ( C ) or Work Days (W) W			PCDD/Fs 1613B			Archives			Grain size ASTM D7928/D6913		
Project #: 60566335 Study: Subsurface Sediment		<input checked="" type="checkbox"/> 21 days			PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIML, 9060, 160.3			Atterberg Limits ASTM D4318					
Sample Type:		<input type="checkbox"/> Other _____											

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCDD/Fs 1613B	Archives	Grain size ASTM D7928/D6913	PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIML, 9060, 160.3	Atterberg Limits ASTM D4318	Sample Specific Notes:
PDI-SC-S222 - 5 to 7.2D	8/7/2018	10:00	SC		ED	3		x	x	<del>x</del>	x		
PDI-SC-S222 - 7.2 to 9.2	8/7/2018	10:05	SC	MS/MSD	ED	6		x	x	x	x		
PDI-SC-S222 - 9.2 to 11.2	8/7/2018	10:10	SC		ED	9		x	x	x	x		
PDI-SC-S222 - 11 to 13.2	8/7/2018	10:15	SC		ED	4		x	x	x	x		
PDI-SC-S222 - 13 to 15.2	8/7/2018	10:20	SC		ED	5		x	x	x	x		
PDI-SC-S248 - 0 to 2	8/7/2018	16:45	SC		ED	4		x	x	x	x		
PDI-SC-S248 - 2 to 4	8/7/2018	16:50	SC	MS/MSD	ED	6		x	x	x	x		
PDI-SC-S248 - 4 to 6.2	8/7/2018	16:55	SC		ED			x	x	x	x		
<del>PDI-SC-S219 - 0 to 2</del>	<del>8/7/2018</del>	<del>11:40</del>	<del>SC</del>		<del>ED</del>			<del>x</del>	<del>x</del>	<del>x</del>	<del>x</del>		
<del>PDI-SC-S219 - 2 to 4</del>	<del>8/7/2018</del>	<del>11:45</del>	<del>SC</del>		<del>ED</del>			<del>x</del>	<del>x</del>	<del>x</del>	<del>x</del>		
<del>PDI-SC-S219 - 4 to 5.2</del>	<del>8/7/2018</del>	<del>11:50</del>	<del>SC</del>		<del>ED</del>			<del>x</del>	<del>x</del>	<del>x</del>	<del>x</del>		
<del>PDI-SC-S139 - 0 to 2</del>	<del>8/7/2018</del>	<del>14:20</del>	<del>SC</del>		<del>ED</del>			<del>x</del>	<del>x</del>	<del>x</del>	<del>x</del>		

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     Sposal By Lab     Archive For 12 Months

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

Relinquished by:	Company: AECOM	Date/Time: 8/8/18 1445	Received by:	Company: M.E.	Date/Time: 8/8/18 1445
Relinquished by:	Company: M.E.	Date/Time: 8/8/18 1530	Received by:	Company: TAPOR	Date/Time: 8/8/18 1530
Relinquished by:	Company: TAPOR	Date/Time: 8/8/18 1700	Received by:	Company: TAPOR	Date/Time: 8/8/18 0920

TestAmerica-Seattle 5755-8th-Street-East 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				Date: 8/8/18		COC No 1		
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:		Analysis Turnaround Time Calendar (C) or Work Days (W) W <input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other _____				Laboratory Contact: Elaine-Walker				Carrier: Courier		3 of 4 pages		
		Fraction		PCDD/Fs 163B		Archive		Grain size ASTM D7528/D6913		PCB Aroclors, PAHs, Total Organic Carbon, Total Solids 8082A, 8270D-SIM, 9060, 140.3		Atterberg Limits ASTM D4318		
Sample Identification		Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.						Sample Specific Notes:	
PDI-SC-S139 - 0 to 2		8/7/2018	14:20	SC		ED	4	x	x	x	x			
PDI-SC-S139 - 2 to 4.1		8/7/2018	14:25	SC	MS/MSD	ED	4	x	x	x	x			
PDI-SC-S139 - 4.1 to 5.9		8/7/2018	14:30	SC		ED	3	x	x	x	x			
PDI-SC-S139 - 4.1 to 5.9D		8/7/2018	14:30	SC		ED	4	x	x	x	x			
PDI-SC-S117 - 0 to 2		8/7/2018	16:00	SC		ED	1	x	x	x	x			
PDI-SC-S117 - 2 to 4		8/7/2018	16:05	SC		ED	1	x	x	x	x			
PDI-SC-S117 - 4 to 6		8/7/2018	16:10	SC		ED	1	x	x	x	x			
PDI-SC-S219 - 0 to 2		8/7/2018	11:40	SC		ED	1	x	x	x	x			
PDI-SC-S219 - 2 to 4		8/7/2018	11:45	SC		ED	1	x	x	x	x			
PDI-SC-S219 - 4 to 5.2		8/7/2018	11:50	SC		ED	1	x	x	x	x			
PDI-SC-S105 - 0 to 2		8/8/2018	8:55	SC		ED	1	x	x	x	x			
PDI-SC-S105 - 2 to 4		8/8/2018	9:00	SC	MS/MSD	ED	6	x	x	x	x			
Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Coil								AG	AG	WMG	WMG	AG		
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid														
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)														
Sample Disposal								<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Dispose By Lab	<input checked="" type="checkbox"/> Archive For 12 Months				
Special Instructions/QC Requirements & Comments: Separate reports for each lab														
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:	Relinquished by:	Company:	Date/Time:
	AECOM	8/8/18 1445		M.E.	8/8/18 1445		M.E.	8/8/18 1445		TAPOR	8/8/18 1530		TAPOR	8/8/18 1530
	M.E.	8/8/18 1530		TAPOR	8/8/18 1530		TAPOR	8/8/18 1530		TAPOR	8/8/18 1530		TAPOR	8/8/18 1530

TestAmerica-Seattle 5755-8th-Street-East 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: 8/8/18		COC No: 1								
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:		Analysis Turnaround Time Calendar ( C ) or Work Days (W) W <input checked="" type="checkbox"/> 21 days <input type="checkbox"/> Other _____			Carrier: Courier		4 of 4 pages		Sample Specific Notes:									
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	WO-PCBA	WO-PAHs	WO-D/F
PDI-SC-S105 - 4 to 5.6	8/8/2018	9:05	SC		ED	5		x	x	x	x	x						
PDI-SC-S105 - 5.6 to 6.6	8/8/2018	9:10	SC		ED	5		x	x	x	x							
PDI-SC-S191 - 0 to 2	8/8/2018	10:15	SC		ED	4		x	x	x	x							
PDI-SC-S191 - 2 to 4	8/8/2018	10:20	SC		ED	5		x	x	x	x							
PDI-SC-S191 - 4 to 6	8/8/2018	10:25	SC		ED	5		x	x	x	x							
PDI-SC-S191 - 6 to 8.1	8/8/2018	10:30	SC		ED	5		x	x	x	x							
PDI-SC-S192 - 0 to 1.5	8/8/2018	11:20	SC		ED	5		x	x	x	x							
PDI-SC-S192 - 1.5 to 3	8/8/2018	11:25	SC		ED	5		x	x	x	x							
PDI-SC-S192 - 3 to 4.2	8/8/2018	11:30	SC		ED	5		x	x	x	x							
PDI-RB-SS-180807	8/7/2018	13:00	W		ED	7							x	x	x	x		
PDI-RB-SS-180808	8/8/2018	10:55	W		ED	7							x	x	x	x		
PDI-RB-SS-180806	8/6/18		W		ED	7							x	x	x	x		
Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Col							AG	AG	WMG	WMG	AG							
Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid																		
Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)																		
Sample Disposal							<input type="checkbox"/> Return To Client					<input checked="" type="checkbox"/> Sposal By Lab		<input checked="" type="checkbox"/> Archive For 12 Months				
Special Instructions/QC Requirements & Comments: Separate reports for each lab																		
Relinquished by: [Signature]	Company: AECOM	Date/Time: 8/8/18 1445	Received by: [Signature]	Company: M-E	Date/Time: 8/8/18 1530	Received by: [Signature]	Company: TAPOR	Date/Time: 8/8/18 1530	Received by: [Signature]	Company: TASC	Date/Time: 8/9/18 0920							
Relinquished by: [Signature]	Company: M-E	Date/Time: 8/8/18 1530	Received by: [Signature]	Company: TAPOR	Date/Time: 8/8/18 1530	Received by: [Signature]	Company: TASC	Date/Time: 8/9/18 0920										
Relinquished by: [Signature]	Company: TAPOR	Date/Time: 8/8/18 1700	Received by: [Signature]	Company: TASC	Date/Time: 8/9/18 0920													



**TestAmerica Sacramento**

880 Riverside Parkway  
West Sacramento, CA 95605  
Phone (916) 373-5600 Fax (916) 372-1059

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:																																																																																																				
Client Contact:		Walker, Elaine M	Walker, Elaine M		320-126603.1																																																																																																				
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:																																																																																																				
			elaine.walker@testamericainc.com	Oregon	Page 1 of 1																																																																																																				
Company:			Accreditations Required (See note):		Job #:																																																																																																				
TestAmerica Laboratories, Inc.					580-79444-1																																																																																																				
Address:		Due Date Requested:	<b>Analysis Requested</b>			<b>Preservation Codes:</b>																																																																																																			
5755 8th Street East,		8/13/2018																																																																																																							
City:		TAT Requested (days):	<table border="1"> <tr> <td>Fluorid Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>4082A/6660B_PCB_1YR_PCBs_standard list</td> <td>3032A/6665A_AG_PCBs_standard list</td> <td>9960_PSEPT Total Organic Carbon</td> <td>Molecular (MOL) Local Method</td> <td>D422 ASTM D7928 &amp; D6913 Grain Size</td> <td>Moisture_7661(MGB)-Local-Method</td> <td>3270D_SIM/3546 (MOD) PAHs_standard list</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> </tr> <tr> <td>Tacoma</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>State, Zip:</td> <td>PO #:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WA, 98424</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Phone:</td> <td>WO #:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>253-922-2310(Tel) 253-922-5047(Fax)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Email:</td> <td>Project #:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>58012120</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Project Name:</td> <td>SSOW#:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Portland Harbor Pre-Remedial Design</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Site:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			Fluorid Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4082A/6660B_PCB_1YR_PCBs_standard list	3032A/6665A_AG_PCBs_standard list	9960_PSEPT Total Organic Carbon	Molecular (MOL) Local Method	D422 ASTM D7928 & D6913 Grain Size	Moisture_7661(MGB)-Local-Method	3270D_SIM/3546 (MOD) PAHs_standard list	Total Number of Containers	Tacoma									State, Zip:	PO #:								WA, 98424									Phone:	WO #:								253-922-2310(Tel) 253-922-5047(Fax)									Email:	Project #:									58012120								Project Name:	SSOW#:								Portland Harbor Pre-Remedial Design									Site:								
Fluorid Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4082A/6660B_PCB_1YR_PCBs_standard list				3032A/6665A_AG_PCBs_standard list	9960_PSEPT Total Organic Carbon	Molecular (MOL) Local Method	D422 ASTM D7928 & D6913 Grain Size	Moisture_7661(MGB)-Local-Method	3270D_SIM/3546 (MOD) PAHs_standard list	Total Number of Containers																																																																																													
Tacoma																																																																																																									
State, Zip:	PO #:																																																																																																								
WA, 98424																																																																																																									
Phone:	WO #:																																																																																																								
253-922-2310(Tel) 253-922-5047(Fax)																																																																																																									
Email:	Project #:																																																																																																								
	58012120																																																																																																								
Project Name:	SSOW#:																																																																																																								
Portland Harbor Pre-Remedial Design																																																																																																									
Site:																																																																																																									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:																																																																																																			
PDI-SC-S139-4.1to5.9D (580-79444-24)		8/7/18	14:30 Pacific		Solid	Low level 20 g to 2 ml extraction (RL 10 x lower than default), Total Solids performed																																																																																																			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our 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/tests/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.

**Possible Hazard Identification**

Unconfirmed  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 2 \_\_\_\_\_

Special Instructions/QC Requirements: \_\_\_\_\_

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 8-15-18 1630	Company: T&E	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact:  Yes  No      Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

A2=06/0.5



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Part # 159469-434 RIT2EXP 03/19 \*

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

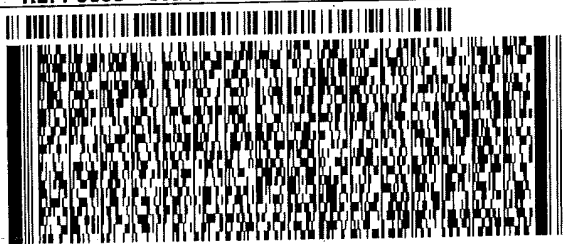
ORIGIN ID: BNOA (503) 906-9240  
 SAMPLE CONTROL  
 TESTAMERICA PORTLAND  
 8920 SW GEMINI DR  
 BUILDING 7  
 BEAVERTON, OR 970087145  
 UNITED STATES US

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) 860-1990  
 REF: S580-30219



FedEx  
Express

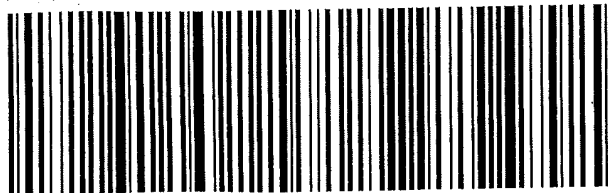


TUE - 14 AUG 10:30A  
 PRIORITY OVERNIGHT

TRK# 4423 0750 8910  
 0201

**XH BTVA**

05403  
 VT-US BTV



# Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-79444-3

**Login Number: 79444**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Antonson, Angeline D**

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: 580-79444-3

**Login Number: 79444**

**List Number: 4**

**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 <math>\leq</math> 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.

