



July 3, 2017

Clean Water Services  
2550 SW Hillsboro Highway  
Hillsboro, Oregon 97123

Attention: Marney Jett and Joy Ramirez

Subject: **2017 – 2018 Discharge Monitoring Report (DMR)**  
**1200-Z General Permit: CWS File No. 41940**  
**Intel Corporation – Aloha Campus**  
**3585 SW 198<sup>th</sup> Avenue**  
**Aloha, Oregon 97007**

Intel Corporation (Intel) is pleased to present this annual report and supporting documentation for the Intel Aloha Campus (Site) located in Aloha, Oregon. This report fulfils the annual reporting requirements of the National Pollution Discharge Elimination System (NPDES) 1200-Z permit for the Site (CWS File No. 41940).

Attached to this letter you will find:

- 2017 – 2018 Industrial Stormwater Discharge Monitoring Report (Attachment A);
- Laboratory Analytical Reports, QA/QC, and Chain of Custodies (Attachment B);  
and
- pH Field Notes (Attachment C).

Please feel free to contact Alex Lochard at (503) 214-0249 should you have any questions or concerns regarding this annual report.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Shanley".

Stephanie Shanley  
Oregon Environmental Manager  
Intel Corporation

Cc: Alex Lochard, Intel Corporation  
Intel EHS file



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**ATTACHMENT A**

**2017 – 2018 Industrial Stormwater Discharge Monitoring Report**



State of Oregon  
Department of  
Environmental  
Quality

**Oregon Department of Environmental Quality  
Stormwater Program**

**Discharge Monitoring Report  
1200-Z Permit**

National Pollutant Discharge Elimination System Permit  
Industrial Stormwater Discharge General Permit

**Instructions:** This report must be completed for each monitoring year, July 1 to June 30, and submitted to the appropriate DEQ regional or agent office annually by July 31st. The report must contain the results of all stormwater monitoring conducted during the year. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and

**Facility Information**

Legal name: Intel Corporation DEQ File No: 41940  
Common name: Aloha Campus EPA #: ORR110150  
Facility address: 3585 SW 198th Ave Monitoring Period: July 1, 2017 to June, 30, 2018  
Facility City, Zip: Aloha, 97007 Select DEQ or Agent: ☐ DEQ ☒ Clean Water Services  
Geo-Region: ☐ Columbia Slough ☐ Columbia River ☐ Portland Harbor ☒ Regional ☐ City of Portland ☐ City of Eugene  
2nd Geo-Region: ☐ Columbia Slough ☐ Columbia River ☐ Portland Harbor ☐ Regional  
Primary SIC Code: 3674 Secondary SIC Code(s): \_\_\_\_\_

**Monitoring Information**

Number of discharge point(s): 2 Number of monitoring location(s): 2

If different, you certify that the facility has established either: 1) the area has no exposure of stormwater to industrial activities, or 2) the effluent is substantially similar to effluent(s) monitored and the same BMPs are implemented and

**Monitoring Waiver(s)** If yes list date on DEQ or Agent approval letter.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**DMR Submittal Checklist**

Please check all applicable documents are included with you DMR submittal:

☒ Original Signature ☒ Laboratory Reports ☒ Chain of Custody ☒ QA/QC form Lab ☒ pH field sheets

**Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 122.22(d)).

Signature: \_\_\_\_\_

Date: 7-25-18

Printed Name: Stephanie Shanley

Legally Authorized Representative

Title: Oregon Environmental Manager

Email: stephanie.b.shanley@intel.com

Telephone : 503-613-5950



# Discharge Monitoring Report

## 1200-Z Permit

For official use only:  
Legal Name: Intel Corportation  
DEQ File No: 41940

**Instructions:** This report must be completed for each monitoring year, July 1 to June 30, and submitted to the appropriate DEQ regional or agent office annually by July 31st. The report must contain the results of all stormwater monitoring conducted during the year. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

## Regional Benchmarks

\* E. coli is only required for landfills and sewage treatment plants.





## **ATTACHMENT B**

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Laboratory Analytical Reports, QA/QC, and Chain of Custodies

# Apex Labs

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323 Phone  
503-718-0333 Fax

Wednesday, December 13, 2017

Dan Schall  
AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

RE: Intel Compliance / 761M131872

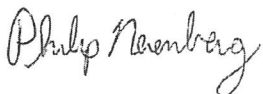
Enclosed are the results of analyses for work order A7K1054, which was received by the laboratory on 11/30/2017 at 6:10:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

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Apex Laboratories



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Philip Nerenberg, Lab Director

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

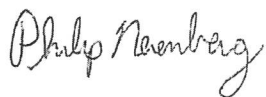
Reported:  
12/13/17 13:43

## ANALYTICAL REPORT FOR SAMPLES

### SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A7K1054-01	Water	11/30/17 13:00	11/30/17 18:10
ALMP-2	A7K1054-02	Water	11/30/17 13:38	11/30/17 18:10

Apex Laboratories



Philip Nerenberg, Lab Director

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# Apex Labs

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323 Phone  
503-718-0333 Fax

AMEC Foster Wheeler 7376 SW Durham Road Portland, OR 97224	Project: Intel Compliance Project Number: 761M131872 Project Manager: Dan Schall	Reported: 12/13/17 13:43
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## ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>ALMP-1 (A7K1054-01)</b>								
Batch: 7120457								
Matrix: Water								
Lead	0.00396	---	0.000200	mg/L	1	12/07/17 18:48	EPA 200.8	
Zinc	0.521	---	0.00400	"	"	"	"	B
<b>ALMP-1 (A7K1054-01RE1)</b>								
Batch: 7120576								
Matrix: Water								
Copper	0.0996	---	0.00100	mg/L	1	12/08/17 21:40	EPA 200.8	
<b>ALMP-2 (A7K1054-02)</b>								
Batch: 7120457								
Matrix: Water								
Lead	0.000589	---	0.000200	mg/L	1	12/07/17 19:06	EPA 200.8	
Zinc	0.196	---	0.00400	"	"	"	"	B
<b>ALMP-2 (A7K1054-02RE1)</b>								
Batch: 7120576								
Matrix: Water								
Copper	0.0200	---	0.00400	mg/L	1	12/11/17 14:32	EPA 200.8	

Apex Laboratories

*Philip Nerenberg*

Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

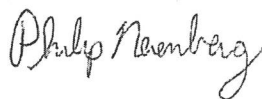
Reported:  
12/13/17 13:43

## ANALYTICAL SAMPLE RESULTS

### Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7K1054-01)			Matrix: Water					
Batch: 7120468								
Zinc	0.109	---	0.00400	mg/L	1	12/06/17 20:43	EPA 200.8 (Diss)	FILT1
ALMP-2 (A7K1054-02)			Matrix: Water					
Batch: 7120468								
Copper	0.0152	---	0.00100	mg/L	1	12/06/17 20:48	EPA 200.8 (Diss)	FILT1
Zinc	0.188	---	0.00400	"	"	"	"	FILT1

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Philip Nerenberg, Lab Director

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Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
12/13/17 13:43

## ANALYTICAL SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>ALMP-1 (A7K1054-01)</b>								
<b>Matrix: Water</b>								
Batch: 7120366								
<b>Total Suspended Solids</b>	<b>59.0</b>	---	5.00	mg/L	1	12/04/17 16:37	SM 2540 D	
Batch: 7120473								
HEM (Oil and Grease)	ND	---	4.76	"	"	12/08/17 07:03	EPA 1664A	O-01
<b>ALMP-2 (A7K1054-02)</b>								
<b>Matrix: Water</b>								
Batch: 7120366								
<b>Total Suspended Solids</b>	ND	---	5.00	mg/L	1	12/04/17 16:37	SM 2540 D	
Batch: 7120473								
HEM (Oil and Grease)	ND	---	4.67	"	"	12/08/17 07:03	EPA 1664A	O-01



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7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
12/13/17 13:43

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7120457 - EPA 3015A						Water						
Blank (7120457-BLK1)				Prepared: 12/06/17 10:22    Analyzed: 12/07/17 17:43								
EPA 200.8												
Lead	ND	---	0.000200	mg/L	1	---	---	---	---	---	---	
Zinc	0.00403	---	0.00400	"	"	---	---	---	---	---	---	B
LCS (7120457-BS1)				Prepared: 12/06/17 10:22    Analyzed: 12/07/17 17:48								
EPA 200.8												
Lead	0.0557	---	0.000200	mg/L	1	0.0556	---	100	85-115%	---	---	
LCS (7120457-BS2)				Prepared: 12/06/17 10:22    Analyzed: 12/08/17 15:54								
EPA 200.8												
Zinc	0.0636	---	0.00400	mg/L	1	0.0556	---	114	85-115%	---	---	B, Q-16
Batch 7120576 - EPA 3015A						Water						
Blank (7120576-BLK1)				Prepared: 12/08/17 17:06    Analyzed: 12/08/17 20:55								
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
LCS (7120576-BS1)				Prepared: 12/08/17 17:06    Analyzed: 12/08/17 20:59								
EPA 200.8												
Copper	0.0585	---	0.00100	mg/L	1	0.0556	---	105	85-115%	---	---	

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Reported:  
12/13/17 13:43

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7120468 - Matrix Matched Direct Inject						Water						
Blank (7120468-BLK1)				Prepared: 12/06/17 12:04 Analyzed: 12/06/17 20:34								
EPA 200.8 (Diss)												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	FILT3
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	FILT3
LCS (7120468-BS1)				Prepared: 12/06/17 12:04 Analyzed: 12/06/17 20:39								
EPA 200.8 (Diss)												
Copper	0.0545	---	0.00100	mg/L	1	0.0556	---	98	85-115%	---	---	
Zinc	0.0561	---	0.00400	"	"	"	---	101	"	---	---	

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Reported:  
12/13/17 13:43

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7120366 - Total Suspended Solids						Water						
Blank (7120366-BLK1)					Prepared: 12/04/17 09:31		Analyzed: 12/04/17 16:37					
SM 2540 D												
Total Suspended Solids	ND	---	2.00	mg/L	1	---	---	---	---	---	---	
Reference (7120366-SRM1)					Prepared: 12/04/17 09:31		Analyzed: 12/04/17 16:37					
SM 2540 D												
Total Suspended Solids	86.0	---		mg/L	1	100		86	77.1-110%	---	---	

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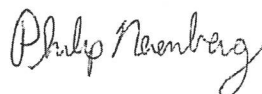
Reported:  
12/13/17 13:43

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7120473 - EPA 1664						Water						
Blank (7120473-BLK1)				Prepared: 12/07/17 06:45    Analyzed: 12/08/17 07:03								
EPA 1664A												
HEM (Oil and Grease)	ND	---	4.55	mg/L	1	---	---	---	---	---	---	
LCS (7120473-BS1)				Prepared: 12/07/17 06:45    Analyzed: 12/08/17 07:03								
EPA 1664A												
HEM (Oil and Grease)	36.9	---		mg/L	1	40.0	---	92	78-114%	---	---	

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Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
12/13/17 13:43

## SAMPLE PREPARATION INFORMATION

### Total Metals by EPA 200.8 (ICPMS)

#### Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7120457							
A7K1054-01	Water	EPA 200.8	11/30/17 13:00	12/06/17 10:22	45mL/50mL	45mL/50mL	1.00
A7K1054-02	Water	EPA 200.8	11/30/17 13:38	12/06/17 10:22	45mL/50mL	45mL/50mL	1.00
Batch: 7120576							
A7K1054-01RE1	Water	EPA 200.8	11/30/17 13:00	12/08/17 17:06	45mL/50mL	45mL/50mL	1.00
A7K1054-02RE1	Water	EPA 200.8	11/30/17 13:38	12/08/17 17:06	45mL/50mL	45mL/50mL	1.00

### Dissolved Metals by EPA 200.8 (ICPMS)

#### Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7120468							
A7K1054-01	Water	EPA 200.8 (Diss)	11/30/17 13:00	12/06/17 12:04	45mL/50mL	45mL/50mL	1.00
A7K1054-02	Water	EPA 200.8 (Diss)	11/30/17 13:38	12/06/17 12:04	45mL/50mL	45mL/50mL	1.00

### Conventional Chemistry Parameters

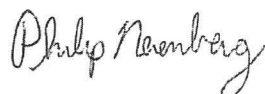
#### Prep: EPA 1664

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7120473							
A7K1054-01	Water	EPA 1664A	11/30/17 13:00	12/07/17 06:45	1000N/A/5N/A	1N/A/1N/A	NA
A7K1054-02	Water	EPA 1664A	11/30/17 13:38	12/07/17 06:45	1000N/A/5N/A	1N/A/1N/A	NA

#### Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7120366							
A7K1054-01	Water	SM 2540 D	11/30/17 13:00	12/04/17 09:31	1N/A/1N/A	1N/A/1N/A	NA
A7K1054-02	Water	SM 2540 D	11/30/17 13:38	12/04/17 09:31	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
12/13/17 13:43

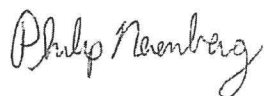
## Notes and Definitions

### Qualifiers:

- B Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3 This is a laboratory filtration blank, associated with filtration batch 7120315. See Prep page of report for associated samples.
- O-01 Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis was therefore not performed.
- Q-16 Reanalysis of an original Batch QC sample.

### Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- \*\*\* Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).





**AMEC Foster Wheeler**  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

**Reported:**  
12/13/17 13:43

# CHAIN OF CUSTODY

**APEX LABS**

12232 S.W. Garden Place, Tigard, OR 97223 Ph. 503-718-2322 Fax: 503-718-0333

Lab # **ATK054**

COC **1 of 1**

PO#

Company **Amec Foster Wheeler**

Address **7376 SW Durham Rd, Portland, OR 97224**

Sampled by: **Tyler Martens**

Site Location: **OR** WA

Other: \_\_\_\_\_

Project Mgr: **Dan Schell**

Project Name: **Intel Compliance**

Phone: **503-639-3400** Fax: \_\_\_\_\_

Project # **761131872**

Engineer: **schell@amecfw.com**

ANALYSIS REQUEST

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTRH-FICID	NWTRH-DX	NWTRH-GX	8260 VOCs Full List	8260 RBDH VOCs	8260 HYDCs	8260 BTEX VOCs	8270 SYOC	8270 SIM PAHS	8082 PCBs	600 TTO	HCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Cd, Cr, Cu, Co, Fe, Hg, Mn, Ni, Pb, Se, Si, Sn, Tl, V, W, Zn	Other: DISS TCLP	1200-COLS	1200-Z
ALMP-1	11/30	1300sw	4																		
ALMP-2	11/30	1358sw	4																		

**SPECIAL INSTRUCTIONS:**

please lab filter for dissolved Zn+Cu.

**RELINQUISHED BY:**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**RECEIVED BY:**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Philip Naenberg

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
12/13/17 13:43

## APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: A7 K1054

Project/Project #: Intel Compliance / 761M131872

**Delivery info:**  
Date/Time Received: 11/30/17 @ 1810 By: (Signature)

Delivered by: Apex ☒ Client ☒ ESS ☒ FedEx ☒ UPS ☒ Swift ☒ Senvoy ☒ SDS ☒ Other ☒

**Cooler Inspection** Inspected by: (Signature) : 11/30/17 @ 1810

Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒

Signed/Dated by Client? Yes ☒ No ☐

Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)							
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)	<u>1.0</u>	<u>4.6</u>	<u>5.4</u>				
Ice Type: (Gel/Real/Other)							
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: \_\_\_\_\_  
If some coolers are in temp and some out, was green dot applied to out of temperature samples? Yes/No/NA

**Samples Inspection:** Inspected by: (Signature) : 11/30/17 @ 1850

All Samples Intact? Yes ☒ No ☐ Comments: \_\_\_\_\_

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments: \_\_\_\_\_

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments: \_\_\_\_\_

Do VOA Vials have Visible Headspace? Yes ☐ No ☐ NA ☒

Comments: \_\_\_\_\_

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐

Comments: \_\_\_\_\_

**Additional Information:** \_\_\_\_\_

Labeled by: (Signature) Witness: (Signature) Cooler Inspected by: (Signature) See Project Contact Form: Y

# Apex Labs

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323 Phone  
503-718-0333 Fax

Thursday, January 11, 2018

Dan Schall  
AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

RE: Intel Compliance / 761M131872

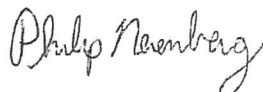
Enclosed are the results of analyses for work order A7L0571, which was received by the laboratory on 12/19/2017 at 4:00:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

---

Apex Laboratories



---

Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

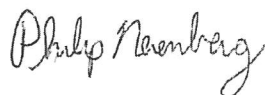
Reported:  
01/11/18 10:45

## ANALYTICAL REPORT FOR SAMPLES

### SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A7L0571-01	Water	12/19/17 08:35	12/19/17 16:00
ALMP-2	A7L0571-02	Water	12/19/17 09:40	12/19/17 16:00

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Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
01/11/18 10:45

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7L0571-01)			Matrix: Water					
Batch: 8010348								
Copper	0.00644	---	0.00100	mg/L	1	01/08/18 19:27	EPA 200.8	
Lead	0.000656	---	0.000200	"	"	"	"	
Zinc	0.184	---	0.00400	"	"	"	"	
ALMP-2 (A7L0571-02)			Matrix: Water					
Batch: 8010348								
Copper	0.0254	---	0.00100	mg/L	1	01/08/18 19:30	EPA 200.8	
Lead	0.00121	---	0.000200	"	"	"	"	
Zinc	0.270	---	0.00400	"	"	"	"	



AMEC Foster Wheeler  
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Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
01/11/18 10:45

## ANALYTICAL SAMPLE RESULTS

### Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7L0571-01)			Matrix: Water					
Batch: 8010383								
Copper	0.00268	---	0.00200	mg/L	1	01/04/18 18:35	EPA 200.8 (Diss)	FILT1
Zinc	0.169	---	0.00400	"	"	"	"	FILT1
ALMP-2 (A7L0571-02)			Matrix: Water					
Batch: 8010383								
Copper	0.0207	---	0.00200	mg/L	1	01/04/18 20:00	EPA 200.8 (Diss)	FILT1
Zinc	0.274	---	0.00400	"	"	"	"	FILT1

AMEC Foster Wheeler  
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Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

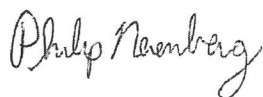
**Reported:**  
01/11/18 10:45

## ANALYTICAL SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>ALMP-1 (A7L0571-01)</b>								
<b>Matrix: Water</b>								
Batch: 7120988								
Total Suspended Solids	ND	---	5.00	mg/L	1	12/27/17 12:30	SM 2540 D	
Batch: 8010342								
HEM (Oil and Grease)	ND	---	4.81	"	"	01/04/18 07:09	EPA 1664A	O-01
<b>ALMP-2 (A7L0571-02)</b>								
<b>Matrix: Water</b>								
Batch: 7120988								
Total Suspended Solids	ND	---	5.00	mg/L	1	12/27/17 12:30	SM 2540 D	
Batch: 8010342								
HEM (Oil and Grease)	ND	---	4.72	"	"	01/04/18 07:09	EPA 1664A	O-01

Apex Laboratories



Philip Nerenberg, Lab Director

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Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
01/11/18 10:45

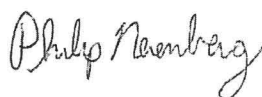
## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8010348 - EPA 3015A						Water						
Blank (8010348-BLK1)						Prepared: 01/03/18 14:13    Analyzed: 01/08/18 18:41						
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
Lead	ND	---	0.000200	"	"	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (8010348-BS1)						Prepared: 01/03/18 14:13    Analyzed: 01/08/18 19:10						
EPA 200.8												
Copper	0.0558	---	0.00100	mg/L	1	0.0556	---	100	85-115%	---	---	
Lead	0.0582	---	0.000200	"	"	"	---	105	"	---	---	
Zinc	0.0540	---	0.00400	"	"	"	---	97	"	---	---	
Duplicate (8010348-DUP1)						Prepared: 01/03/18 14:13    Analyzed: 01/08/18 19:33						
QC Source Sample: ALMP-2 (A7L0571-02)												
EPA 200.8												
Copper	0.0254	---	0.00100	mg/L	1	---	0.0254	---	---	0.1	20%	
Lead	0.00120	---	0.000200	"	"	---	0.00121	---	---	0.9	20%	
Zinc	0.270	---	0.00400	"	"	---	0.270	---	---	0.04	20%	
Matrix Spike (8010348-MS1)						Prepared: 01/03/18 14:13    Analyzed: 01/08/18 19:36						
QC Source Sample: ALMP-2 (A7L0571-02)												
EPA 200.8												
Copper	0.0802	---	0.00100	mg/L	1	0.0556	0.0254	99	70-130%	---	---	
Lead	0.0585	---	0.000200	"	"	"	0.00121	103	"	---	---	
Zinc	0.321	---	0.00400	"	"	"	0.270	91	"	---	---	

Apex Laboratories

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Philip Nerenberg, Lab Director



AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

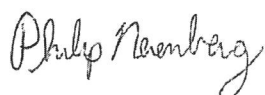
Reported:  
01/11/18 10:45

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8010383 - Matrix Matched Direct Inject							Water					
Blank (8010383-BLK1)				Prepared: 01/04/18 12:43    Analyzed: 01/04/18 17:22								
EPA 200.8 (Diss)												
Copper	ND	---	0.00200	mg/L	1	---	---	---	---	---	---	FILT3
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	FILT3
LCS (8010383-BS1)				Prepared: 01/04/18 12:43    Analyzed: 01/04/18 17:25								
EPA 200.8 (Diss)												
Copper	0.0558	---	0.00200	mg/L	1	0.0556	---	100	85-115%	---	---	
Zinc	0.0554	---	0.00400	"	"	"	---	100	"	---	---	

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Project: **Intel Compliance**  
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**Reported:**  
01/11/18 10:45

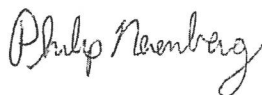
## QUALITY CONTROL (QC) SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7120988 - Total Suspended Solids						Water						
Blank (7120988-BLK1)					Prepared: 12/21/17 15:01		Analyzed: 12/27/17 12:30					
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (7120988-SRM1)					Prepared: 12/21/17 15:01		Analyzed: 12/27/17 12:30					
SM 2540 D												
Total Suspended Solids	98.0	---		mg/L	1	100		98	77.1-110%	---	---	

Apex Laboratories

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Philip Nerenberg, Lab Director

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

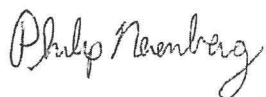
Reported:  
01/11/18 10:45

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8010342 - EPA 1664												
Water												
Blank (8010342-BLK1)												
						Prepared: 01/03/18 13:14    Analyzed: 01/04/18 07:09						
EPA 1664A												
HEM (Oil and Grease)	ND	---	4.55	mg/L	1	---	---	---	---	---	---	
Blank (8010342-BLK2)												
						Prepared: 01/04/18 13:46    Analyzed: 01/04/18 13:47						
EPA 1664A												
SGT-HEM (Non-polar Material)	ND	---	4.55	mg/L	1	---	---	---	---	---	---	
LCS (8010342-BS1)												
						Prepared: 01/03/18 13:14    Analyzed: 01/04/18 07:09						
EPA 1664A												
HEM (Oil and Grease)	38.7	---		mg/L	1	40.0	---	97	78-114%	---	---	
LCS (8010342-BS2)												
						Prepared: 01/04/18 13:46    Analyzed: 01/04/18 13:47						
EPA 1664A												
SGT-HEM (Non-polar Material)	15.5	---		mg/L	1	20.0	---	78	64-132%	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

**Reported:**  
01/11/18 10:45

## SAMPLE PREPARATION INFORMATION

### Total Metals by EPA 200.8 (ICPMS)

#### Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8010348							
A7L0571-01	Water	EPA 200.8	12/19/17 08:35	01/03/18 14:13	45mL/50mL	45mL/50mL	1.00
A7L0571-02	Water	EPA 200.8	12/19/17 09:40	01/03/18 14:13	45mL/50mL	45mL/50mL	1.00

### Dissolved Metals by EPA 200.8 (ICPMS)

#### Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8010383							
A7L0571-01	Water	EPA 200.8 (Diss)	12/19/17 08:35	01/04/18 12:43	45mL/50mL	45mL/50mL	1.00
A7L0571-02	Water	EPA 200.8 (Diss)	12/19/17 09:40	01/04/18 12:43	45mL/50mL	45mL/50mL	1.00

### Conventional Chemistry Parameters

#### Prep: EPA 1664

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8010342							
A7L0571-01	Water	EPA 1664A	12/19/17 08:35	01/03/18 13:14	1000N/A/5N/A	1N/A/1N/A	NA
A7L0571-02	Water	EPA 1664A	12/19/17 09:40	01/03/18 13:14	1000N/A/5N/A	1N/A/1N/A	NA

#### Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7120988							
A7L0571-01	Water	SM 2540 D	12/19/17 08:35	12/21/17 15:01	1N/A/1N/A	1N/A/1N/A	NA
A7L0571-02	Water	SM 2540 D	12/19/17 09:40	12/21/17 15:01	1N/A/1N/A	1N/A/1N/A	NA

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Reported:  
01/11/18 10:45

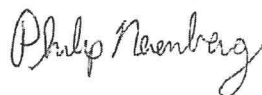
## Notes and Definitions

### Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3 This is a laboratory filtration blank, associated with filtration batch 7120892. See Prep page of report for associated samples.
- O-01 Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis was therefore not performed.

### Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- \*\*\* Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).



**12232 S.W. Garden Place**  
**Tigard, OR 97223**  
**503-718-2323 Phone**  
**503-718-0333 Fax**

**AMEC Foster Wheeler**  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

**Reported:**  
01/11/18 10:45

<b>APEX LABS</b>		<b>CHAIN OF CUSTODY</b>		Lab # <b>A760511</b>		COC 1 of 1	
Company: <b>Amec Foster Wheeler</b> Address: <b>376 SW Durham Rd, Portland, OR 97224</b> Sampled by: <b>Matthew Brown</b>		Project Manager: <b>Dan Schell</b> Project Name: <b>Intel Compliance</b> Phone: <b>503-639-3400</b> Fax: <b>-</b>		PO# <b>7614131872</b> Project # <b>7614131872</b> Investigator: <b>Immanuel, schell@amecfw.com</b>			
Site Location: <b>WA</b> Other: _____		ANALYSIS REQUEST T.C.P. Metals (8) RCRA Metals (8) 600 TFO 8082 PCBs 8270 SIM PAHs 8270 SVOC 8260 BTEX VOCs 8260 HVOCS 8260 RBDH VOCs 8260 VOCs Full List NTPH-GX NTPH-DX NTPH-HCID # OF CONTAINERS MATRIX TIME DATE LAB ID #		T.C.P. Metals (8) RCRA Metals (8) 600 TFO 8082 PCBs 8270 SIM PAHs 8270 SVOC 8260 BTEX VOCs 8260 HVOCS 8260 RBDH VOCs 8260 VOCs Full List NTPH-GX NTPH-DX NTPH-HCID # OF CONTAINERS MATRIX TIME DATE LAB ID #		T.C.P. Metals (8) RCRA Metals (8) 600 TFO 8082 PCBs 8270 SIM PAHs 8270 SVOC 8260 BTEX VOCs 8260 HVOCS 8260 RBDH VOCs 8260 VOCs Full List NTPH-GX NTPH-DX NTPH-HCID # OF CONTAINERS MATRIX TIME DATE LAB ID #	
SAMPLE ID <b>ALMP-1</b> <b>ALMP-2</b>		TIME <b>12/19/2015</b> <b>12/19/2015</b>		DATE <b>12/19/2015</b> <b>12/19/2015</b>		LAB ID # <b>1219835 sw 4</b> <b>1219940 sw 4</b>	
Normal Turn Around Time (TAT) = 10 Business Days TAT Requested (circle) <b>1 Day</b>		NO <b>YES</b>		SPECIAL INSTRUCTIONS <b>Please Lab Filter For Diss Metals</b>		RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Title: _____	
SAMPLES ARE HELD FOR 30 DAYS RECEIVED BY: Signature: <b>Matthew Brown</b> Date: <b>12/19/15</b> Printed Name: <b>Matthew Brown</b> Title: <b>Tech</b>		RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Title: _____		RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Title: _____		RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Title: _____	

Apex Laboratories

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Philip Neenberg

Philip Nerenberg, Lab Director

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
01/11/18 10:45

## APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: A7 20571

Project/Project #: Intel Compliance / 761M131872

### Delivery info:

Date/Time Received: 12/19/17 @ 1600 By: AKK

Delivered by: Apex ☐ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Inspected by: AKK : 12/19/17 @ 1600

Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒

Signed/Dated by Client? Yes ☒ No ☐

Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)							
Received on Ice? <input checked="" type="checkbox"/> (N)							
Temp. Blanks? <input checked="" type="checkbox"/> (N) <u>2.3</u>							
Ice Type: <input checked="" type="checkbox"/> Gel/Real/Other							
Condition: <u>good</u>							

Cooler out of temp? (Y/N) Possible reason why: \_\_\_\_\_

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No NA

Samples Inspection Inspected by: AKK : 12/19/17 @ 1750

All Samples Intact? Yes ☒ No ☐ Comments: \_\_\_\_\_

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments: \_\_\_\_\_

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments: \_\_\_\_\_

Do VOA Vials have Visible Headspace? Yes ☐ No ☐ NA ☒

Comments: \_\_\_\_\_

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐

Comments: \_\_\_\_\_

Additional Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Labeled by: AKK Witness: WF Cooler Inspected by: AKK See Project Contact Form: Y

# Apex Labs

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323 Phone  
503-718-0333 Fax

Friday, April 27, 2018

Dan Schall  
AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

RE: Intel Compliance / 761M131872

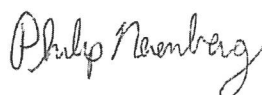
Enclosed are the results of analyses for work order A8C0870, which was received by the laboratory on 3/22/2018 at 4:10:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

---

Apex Laboratories



---

Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

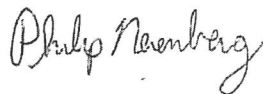
**Reported:**  
04/27/18 10:39

## ANALYTICAL REPORT FOR SAMPLES

### SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A8C0870-01	Water	03/21/18 23:59	03/22/18 16:10
ALMP-2	A8C0870-02	Water	03/21/18 22:35	03/22/18 16:10

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Philip Nerenberg, Lab Director

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Portland, OR 97224

Project: **Intel Compliance**  
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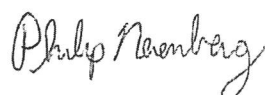
Reported:  
04/27/18 10:39

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>ALMP-1 (A8C0870-01)</b>			<b>Matrix: Water</b>					
Batch: 8040511								
Copper	0.00358	---	0.00100	mg/L	1	04/06/18 06:25	EPA 200.8	
Lead	0.000746	---	0.000200	"	"	"	"	
Zinc	0.0971	---	0.00400	"	"	"	"	
<b>ALMP-2 (A8C0870-02)</b>			<b>Matrix: Water</b>					
Batch: 8040511								
Copper	0.0262	---	0.00100	mg/L	1	04/06/18 06:30	EPA 200.8	
Lead	0.00112	---	0.000200	"	"	"	"	
Zinc	0.202	---	0.00400	"	"	"	"	

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Philip Nerenberg, Lab Director

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7376 SW Durham Road  
Portland, OR 97224

Project: Intel Compliance  
Project Number: 761M131872  
Project Manager: Dan Schall

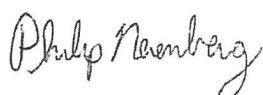
Reported:  
04/27/18 10:39

## ANALYTICAL SAMPLE RESULTS

### Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>ALMP-1 (A8C0870-01RE1)</b>			<b>Matrix: Water</b>					
Batch: 8040464								
<b>Zinc</b>	<b>0.0858</b>	---	0.00400	mg/L	1	04/17/18 19:28	EPA 200.8 (Diss)	FILT1
<b>ALMP-2 (A8C0870-02RE1)</b>			<b>Matrix: Water</b>					
Batch: 8040464								
<b>Zinc</b>	<b>0.217</b>	---	0.00400	mg/L	1	04/17/18 19:33	EPA 200.8 (Diss)	FILT1

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Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

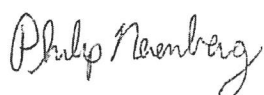
Reported:  
04/27/18 10:39

## ANALYTICAL SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
<b>ALMP-1 (A8C0870-01)</b>			<b>Matrix: Water</b>					
Batch: 8031173								
<b>Total Suspended Solids</b>	<b>8.00</b>	---	5.00	mg/L	1	03/27/18 18:12	SM 2540 D	
Batch: 8040355								
HEM (Oil and Grease)	ND	---	4.76	"	"	04/03/18 10:56	EPA 1664A	O-01
<b>ALMP-2 (A8C0870-02)</b>			<b>Matrix: Water</b>					
Batch: 8031173								
<b>Total Suspended Solids</b>	<b>5.00</b>	---	5.00	mg/L	1	03/27/18 18:12	SM 2540 D	
Batch: 8040355								
HEM (Oil and Grease)	ND	---	4.76	"	"	04/03/18 10:56	EPA 1664A	O-01

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Philip Nerenberg, Lab Director

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Portland, OR 97224

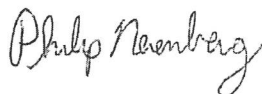
Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
04/27/18 10:39

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040511 - EPA 3015A						Water						
Blank (8040511-BLK1)						Prepared: 04/05/18 12:50    Analyzed: 04/06/18 05:00						
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
Lead	ND	---	0.000200	"	"	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (8040511-BS1)						Prepared: 04/05/18 12:50    Analyzed: 04/06/18 05:05						
EPA 200.8												
Copper	0.0532	---	0.00100	mg/L	1	0.0556	---	96	85-115%	---	---	
Lead	0.0536	---	0.000200	"	"	"	---	96	"	---	---	
Zinc	0.0539	---	0.00400	"	"	"	---	97	"	---	---	





AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

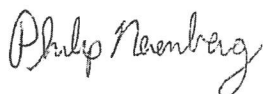
Reported:  
04/27/18 10:39

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040464 - Matrix Matched Direct Inject						Water						
Blank (8040464-BLK2)				Prepared: 04/04/18 13:05    Analyzed: 04/17/18 18:30								
EPA 200.8 (Diss)												
Zinc	ND	---	0.00400	mg/L	1	---	---	---	---	---	---	FILT3
LCS (8040464-BS2)				Prepared: 04/04/18 13:05    Analyzed: 04/17/18 18:35								
EPA 200.8 (Diss)												
Zinc	0.0587	---	0.00400	mg/L	1	0.0556	---	106	85-115%	---	---	

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Philip Nerenberg, Lab Director

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

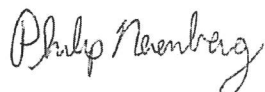
Reported:  
04/27/18 10:39

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031173 - Total Suspended Solids						Water						
Blank (8031173-BLK1)				Prepared: 03/26/18 15:33 Analyzed: 03/27/18 18:12								
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Reference (8031173-SRM1)				Prepared: 03/26/18 15:33 Analyzed: 03/27/18 18:12								
SM 2540 D												
Total Suspended Solids	88.0	---		mg/L	1	100		88	77.1-110%	---	---	

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AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
04/27/18 10:39

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040355 - EPA 1664						Water						
Blank (8040355-BLK1)					Prepared: 04/02/18 07:41		Analyzed: 04/03/18 10:56					
EPA 1664A												
HEM (Oil and Grease)	ND	---	4.55	mg/L	1	---	---	---	---	---	---	
LCS (8040355-BS1)					Prepared: 04/02/18 07:41		Analyzed: 04/03/18 10:56					
EPA 1664A												
HEM (Oil and Grease)	39.3	---		mg/L	1	40.0	---	98	78-114%	---	---	





# Apex Labs

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323 Phone  
503-718-0333 Fax

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
04/27/18 10:39

## SAMPLE PREPARATION INFORMATION

### Total Metals by EPA 200.8 (ICPMS)

#### Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040511							
A8C0870-01	Water	EPA 200.8	03/21/18 23:59	04/05/18 12:50	45mL/50mL	45mL/50mL	1.00
A8C0870-02	Water	EPA 200.8	03/21/18 22:35	04/05/18 12:50	45mL/50mL	45mL/50mL	1.00

### Dissolved Metals by EPA 200.8 (ICPMS)

#### Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040464							
A8C0870-01RE1	Water	EPA 200.8 (Diss)	03/21/18 23:59	04/04/18 13:05	45mL/50mL	45mL/50mL	1.00
A8C0870-02RE1	Water	EPA 200.8 (Diss)	03/21/18 22:35	04/04/18 13:05	45mL/50mL	45mL/50mL	1.00

### Conventional Chemistry Parameters

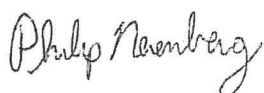
#### Prep: EPA 1664

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040355							
A8C0870-01	Water	EPA 1664A	03/21/18 23:59	04/02/18 07:41	1000N/A/5N/A	1N/A/1N/A	NA
A8C0870-02	Water	EPA 1664A	03/21/18 22:35	04/02/18 07:41	1000N/A/5N/A	1N/A/1N/A	NA

#### Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8031173							
A8C0870-01	Water	SM 2540 D	03/21/18 23:59	03/26/18 15:33	1N/A/1N/A	1N/A/1N/A	NA
A8C0870-02	Water	SM 2540 D	03/21/18 22:35	03/26/18 15:33	1N/A/1N/A	1N/A/1N/A	NA

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Philip Nerenberg, Lab Director

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Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
04/27/18 10:39

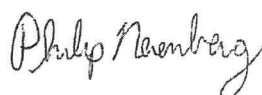
## Notes and Definitions

### Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3 This is a laboratory filtration blank, associated with filtration batch 8031075. See Prep page of report for associated samples.
- O-01 Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis was therefore not performed.

### Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- \*\*\* Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).



# Apex Labs

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503-718-2323 Phone  
503-718-0333 Fax

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
04/27/18 10:39

**APEX LABS**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: AMEC Foster Wheeler Project Mgr: Dan Schall PO# 761M131872

Address: 7376 SW Durham Rd, Portland, OR 97224 Phone: 503-659-2400 Fax: --- Email: daniel.schall@amec.com

Sampled by: Matthew Brown

Site Location: ☒ W.A. Other: ---

**CHAIN OF CUSTODY**

Lab # A800870 COC 1 of 1

Project Name: Intel Compliance

ANALYSIS REQUEST

ANALYSIS REQUEST	RCRA Metals (8)	TCLP Metals (8)	Al, Sh, Ar, Ba, Be, Cd, Cr, Cu, Ni, Pb, Se, Ag, V, Ti, V, Zn	TCAP DISS TCLP	1200-COLS	1200-Z
ALMP-1			X			X
ALMP-2			X			X

**SPECIAL INSTRUCTIONS:**  
Please Lab Filter For Dissolved Zinc  
If enough volume in the  
Unpreserved

Normal Turn Around Time (TAT) - 19 Business Days

TAT Requested (circle): 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY Other: ---

RECEIVED BY: Matthew Brown Date: 3/22/18 Signature: [Signature]

RELINQUISHED BY: Matthew Brown Date: 3/22/18 Signature: [Signature]

RECEIVED BY: AMEC Date: --- Signature: ---

RELINQUISHED BY: AMEC Date: --- Signature: ---

Apex Laboratories

*Philip Nerenberg*

Philip Nerenberg, Lab Director

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# Apex Labs

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503-718-2323 Phone  
503-718-0333 Fax

AMEC Foster Wheeler  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Reported:  
04/27/18 10:39

## APEX LABS COOLER RECEIPT FORM

Client: Amec Element WO#: A8C0870

Project/Project #: Intel Compliance

### Delivery info:

Date/Time Received: 3/22/18 @ 1610 By: km

Delivered by: Apex ☐ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Inspected by: km : 3/22/18 @ 1610

Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒

Signed/Dated by Client? Yes ☒ No ☐

Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>5.7</u>	<u>4.9</u>	<u>2.3</u>				

Received on Ice? ☒ (Y/N)

Temp. Blanks? (Y/N) \*14.8

Ice Type: ☒ (Gel/Real/Other)

Condition:

Cooler out of temp? (Y/N) ☒ Possible reason why: \*away from ice

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA ☒

Samples Inspection Inspected by: 8 : 3/22/18 @ 1610

All Samples Intact? Yes ☒ No ☐ Comments:

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments:

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments:

Do VOA Vials have Visible Headspace? Yes ☐ No ☐ NA ☒

Comments:

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐

Comments:

Additional Information:

Labeled by: 8 Witness: AKK Cooler Inspected by: 8 See Project Contact Form: Y

Apex Laboratories

*Philip Nerenberg*

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

Friday, June 15, 2018

Dan Schall  
Wood Environment & Infrastructure Solutions, Inc.  
7376 SW Durham Road  
Portland, OR 97224

RE: A8F0023 - Intel Compliance - 761M131872

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A8F0023, which was received by the laboratory on 6/1/2018 at 1:37:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

---

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

A handwritten signature in cursive script that reads "Philip Nerenberg".

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

Wood Environment & Infrastructure Solutions, Inc.  
7376 SW Durham Road  
Portland, OR 97224

Project: Intel Compliance  
Project Number: 761M131872  
Project Manager: Dan Schall

Report ID:  
A8F0023 - 06 15 18 0946

**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A8F0023-01	Water	05/31/18 22:51	06/01/18 13:37
ALMP-2	A8F0023-02	Water	05/31/18 22:32	06/01/18 13:37

Apex Laboratories

*Philip Nerenberg*

Philip Nerenberg, Lab Director

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**Apex Laboratories, LLC**

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

**Wood Environment & Infrastructure Solutions, Inc.**  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

**Report ID:**  
A8F0023 - 06 15 18 0946

**ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 200.8 (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>ALMP-1 (A8F0023-01)</b>								
<b>Matrix: Water</b>								
Batch: 8060340								
Copper	0.00717	---	0.00100	mg/L	1	06/07/18	EPA 200.8	
Zinc	0.0546	---	0.00400	mg/L	1	06/07/18	EPA 200.8	
<b>ALMP-1 (A8F0023-01RE1)</b>								
<b>Matrix: Water</b>								
Batch: 8060340								
Lead	0.000565	---	0.000200	mg/L	1	06/11/18	EPA 200.8	
<b>ALMP-2 (A8F0023-02)</b>								
<b>Matrix: Water</b>								
Batch: 8060340								
Copper	0.0646	---	0.00100	mg/L	1	06/07/18	EPA 200.8	
Zinc	0.485	---	0.00400	mg/L	1	06/07/18	EPA 200.8	
<b>ALMP-2 (A8F0023-02RE1)</b>								
<b>Matrix: Water</b>								
Batch: 8060340								
Lead	0.00279	---	0.000200	mg/L	1	06/11/18	EPA 200.8	

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Philip Nerenberg, Lab Director

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503-718-2323  
EPA ID: OR01039

Wood Environment & Infrastructure Solutions, Inc.  
7376 SW Durham Road  
Portland, OR 97224

Project: Intel Compliance  
Project Number: 761M131872  
Project Manager: Dan Schall

Report ID:  
A8F0023 - 06 15 18 0946

**ANALYTICAL SAMPLE RESULTS****Dissolved Metals by EPA 200.8 (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
ALMP-1 (A8F0023-01)			Matrix: Water					
Batch: 8060406								
Zinc	0.0521	---	0.00400	mg/L	1	06/07/18	EPA 200.8 (Diss)	
ALMP-2 (A8F0023-02)			Matrix: Water					
Batch: 8060406								
Copper	0.0525	---	0.00400	mg/L	1	06/07/18	EPA 200.8 (Diss)	
Zinc	0.447	---	0.00400	mg/L	1	06/07/18	EPA 200.8 (Diss)	

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**ANALYTICAL SAMPLE RESULTS****Conventional Chemistry Parameters**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>ALMP-1 (A8F0023-01)</b>								
<b>Matrix: Water</b>								
Batch: 8060418 HEM (Oil and Grease)	ND	---	4.90	mg/L	1	06/07/18	EPA 1664A	O-01
Batch: 8060467 Total Suspended Solids	ND	---	5.00	mg/L	1	06/07/18	SM 2540 D	
<b>ALMP-2 (A8F0023-02)</b>								
<b>Matrix: Water</b>								
Batch: 8060418 HEM (Oil and Grease)	ND	---	4.90	mg/L	1	06/07/18	EPA 1664A	O-01
Batch: 8060467 Total Suspended Solids	26.0	---	5.00	mg/L	1	06/07/18	SM 2540 D	

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**ANALYTICAL SAMPLE RESULTS**

**Lab Filtration**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>ALMP-1 (A8F0023-01)</b>			<b>Matrix: Water</b>			<b>Batch: 8060302</b>		
Lab Filtration (prep only)	PREP	---		N/A	1	06/01/18	None	
<b>ALMP-2 (A8F0023-02)</b>			<b>Matrix: Water</b>			<b>Batch: 8060302</b>		
Lab Filtration (prep only)	PREP	---		N/A	1	06/01/18	None	

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**QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 200.8 (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8060340 - EPA 3015A												
Water												
Blank (8060340-BLK1)			Prepared: 06/04/18 09:36 Analyzed: 06/06/18 22:51									
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	B-02
Lead	ND	---	0.000200	mg/L	1	---	---	---	---	---	---	
Zinc	ND	---	0.00400	mg/L	1	---	---	---	---	---	---	
LCS (8060340-BS1)			Prepared: 06/04/18 09:36 Analyzed: 06/06/18 22:55									
EPA 200.8												
Copper	0.0553	---	0.00100	mg/L	1	0.0556	---	100	85-115%	---	---	B-02
Lead	0.0546	---	0.000200	mg/L	1	0.0556	---	98	85-115%	---	---	
Zinc	0.0540	---	0.00400	mg/L	1	0.0556	---	97	85-115%	---	---	
Duplicate (8060340-DUP1)			Prepared: 06/04/18 09:36 Analyzed: 06/06/18 23:18									
QC Source Sample: Non-SDG (A8E0877-04)												
Copper	ND	---	0.00100	mg/L	1	---	ND	---	---	---	20%	B-02
Lead	ND	---	0.000200	mg/L	1	---	0.000164	---	---	***	20%	
Zinc	ND	---	0.00400	mg/L	1	---	ND	---	---	---	20%	
Matrix Spike (8060340-MS1)			Prepared: 06/04/18 09:36 Analyzed: 06/06/18 23:32									
QC Source Sample: Non-SDG (A8E0877-04)												
EPA 200.8												
Copper	0.0549	---	0.00100	mg/L	1	0.0556	ND	99	70-130%	---	---	B-02
Lead	0.0537	---	0.000200	mg/L	1	0.0556	0.000164	96	70-130%	---	---	
Zinc	0.0529	---	0.00400	mg/L	1	0.0556	ND	95	70-130%	---	---	
Matrix Spike (8060340-MS2)			Prepared: 06/04/18 09:36 Analyzed: 06/07/18 01:00									
QC Source Sample: Non-SDG (A8F0027-01)												
EPA 200.8												
Copper	0.0563	---	0.00100	mg/L	1	0.0556	0.00818	87	70-130%	---	---	
Zinc	0.0513	---	0.00400	mg/L	1	0.0556	ND	92	70-130%	---	---	
Matrix Spike (8060340-MS3)			Prepared: 06/04/18 09:36 Analyzed: 06/11/18 19:04									
QC Source Sample: Non-SDG (A8F0027-01RE1)												
EPA 200.8												

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Total Metals by EPA 200.8 (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 8060340 - EPA 3015A</b>												
<b>Water</b>												
<b>Matrix Spike (8060340-MS3)</b>												
Prepared: 06/04/18 09:36 Analyzed: 06/11/18 19:04												
<b>QC Source Sample: Non-SDG (A8F0027-01RE1)</b>												
Lead	0.0532	---	0.00200	mg/L	10	0.0556	ND	96	70-130%	---	---	Q-16

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**QUALITY CONTROL (QC) SAMPLE RESULTS****Dissolved Metals by EPA 200.8 (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8060406 - Matrix Matched Direct Inject							Water					
Blank (8060406-BLK1)			Prepared: 06/05/18 15:11 Analyzed: 06/07/18 00:10									
EPA 200.8 (Diss)												
Copper	ND	---	0.00200	mg/L	1	---	---	---	---	---	---	
Zinc	ND	---	0.00400	mg/L	1	---	---	---	---	---	---	
LCS (8060406-BS1)			Prepared: 06/05/18 15:11 Analyzed: 06/07/18 00:17									
EPA 200.8 (Diss)												
Copper	0.0585	---	0.00200	mg/L	1	0.0556	---	105	85-115%	---	---	
Zinc	0.0557	---	0.00400	mg/L	1	0.0556	---	100	85-115%	---	---	
Duplicate (8060406-DUP1)			Prepared: 06/05/18 15:11 Analyzed: 06/07/18 01:12									
QC Source Sample: Non-SDG (A8F0002-04)												
Copper	ND	---	0.00200	mg/L	1	---	ND	---	---	---	20%	
Zinc	0.0220	---	0.00400	mg/L	1	---	0.0218	---	---	0.7	20%	
Matrix Spike (8060406-MS1)			Prepared: 06/05/18 15:11 Analyzed: 06/07/18 01:20									
QC Source Sample: Non-SDG (A8F0002-04)												
EPA 200.8 (Diss)												
Copper	0.0555	---	0.00200	mg/L	1	0.0556	ND	100	70-130%	---	---	
Zinc	0.0744	---	0.00400	mg/L	1	0.0556	0.0218	95	70-130%	---	---	

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**QUALITY CONTROL (QC) SAMPLE RESULTS****Conventional Chemistry Parameters**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 8060418 - EPA 1664</b>												
<b>Water</b>												
<b>Blank (8060418-BLK1)</b>												
Prepared: 06/06/18 09:42 Analyzed: 06/07/18 14:44												
<b>EPA 1664A</b>												
HEM (Oil and Grease)	ND	---	4.55	mg/L	1	---	---	---	---	---	---	
<b>Blank (8060418-BLK2)</b>												
Prepared: 06/07/18 14:42 Analyzed: 06/07/18 14:44												
<b>EPA 1664A</b>												
SGT-HEM (Non-polar Material)	ND	---	4.55	mg/L	1	---	---	---	---	---	---	
<b>LCS (8060418-BS1)</b>												
Prepared: 06/06/18 09:42 Analyzed: 06/07/18 14:44												
<b>EPA 1664A</b>												
HEM (Oil and Grease)	37.3	---		mg/L	1	40.0	---	93	78-114%	---	---	
<b>LCS (8060418-BS2)</b>												
Prepared: 06/07/18 14:43 Analyzed: 06/07/18 14:44												
<b>EPA 1664A</b>												
SGT-HEM (Non-polar Material)	17.0	---		mg/L	1	20.0	---	85	64-132%	---	---	
<b>Matrix Spike (8060418-MS1)</b>												
Prepared: 06/06/18 09:42 Analyzed: 06/07/18 14:44												
<b>QC Source Sample: Non-SDG (A8F0122-01)</b>												
<b>EPA 1664A</b>												
HEM (Oil and Grease)	38.3	---		mg/L	1	42.1	0.300	90	78-114%	---	---	

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Project: **Intel Compliance**Project Number: **761M131872**Project Manager: **Dan Schall****Report ID:****A8F0023 - 06 15 18 0946****QUALITY CONTROL (QC) SAMPLE RESULTS****Conventional Chemistry Parameters**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8060467 - Total Suspended Solids						Water						
Blank (8060467-BLK1)			Prepared: 06/07/18 12:50 Analyzed: 06/07/18 16:45									
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (8060467-DUP1)			Prepared: 06/07/18 12:50 Analyzed: 06/07/18 16:45									
QC Source Sample: Non-SDG (A8E0897-01)												
Total Suspended Solids	7.00	---	5.00	mg/L	1	---	10.0	---	---	35	10%	Q-05
Reference (8060467-SRM1)			Prepared: 06/07/18 12:50 Analyzed: 06/07/18 16:45									
SM 2540 D												
Total Suspended Solids	84.0	---		mg/L	1	100		84	77.1-110%	---	---	

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**SAMPLE PREPARATION INFORMATION****Conventional Chemistry Parameters****Prep: EPA 1664**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8060418							
A8F0023-01	Water	EPA 1664A	05/31/18 22:51	06/06/18 09:42			NA
A8F0023-02	Water	EPA 1664A	05/31/18 22:32	06/06/18 09:42			NA

**Prep: Total Suspended Solids**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8060467							
A8F0023-01	Water	SM 2540 D	05/31/18 22:51	06/07/18 12:50			NA
A8F0023-02	Water	SM 2540 D	05/31/18 22:32	06/07/18 12:50			NA

**Dissolved Metals by EPA 200.8 (ICPMS)****Prep: Matrix Matched Direct Inject**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8060406							
A8F0023-01	Water	EPA 200.8 (Diss)	05/31/18 22:51	06/05/18 15:11	45mL/50mL	45mL/50mL	1.00
A8F0023-02	Water	EPA 200.8 (Diss)	05/31/18 22:32	06/05/18 15:11	45mL/50mL	45mL/50mL	1.00

**Lab Filtration****Prep: Lab Filtration**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8060302							
A8F0023-01	Water	None	05/31/18 22:51	06/01/18 14:26	200mL/200mL		NA
A8F0023-02	Water	None	05/31/18 22:32	06/01/18 15:28	75mL/75mL		NA

**Total Metals by EPA 200.8 (ICPMS)****Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8060340							
A8F0023-01	Water	EPA 200.8	05/31/18 22:51	06/04/18 09:36	45mL/50mL	45mL/50mL	1.00
A8F0023-01RE1	Water	EPA 200.8	05/31/18 22:51	06/04/18 09:36	45mL/50mL	45mL/50mL	1.00
A8F0023-02	Water	EPA 200.8	05/31/18 22:32	06/04/18 09:36	45mL/50mL	45mL/50mL	1.00
A8F0023-02RE1	Water	EPA 200.8	05/31/18 22:32	06/04/18 09:36	45mL/50mL	45mL/50mL	1.00

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Project Manager: **Dan Schall**

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**QUALIFIER DEFINITIONS**

**Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

**Apex Laboratories**

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- O-01** Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis was therefore not performed.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16** Reanalysis of an original Batch QC sample.

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**REPORTING NOTES AND CONVENTIONS:**

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

**Basis:** Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.  
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.  
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.  
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.  
Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.  
" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).  
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.  
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.  
For further details, please request a copy of this document.

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**REPORTING NOTES AND CONVENTIONS (Cont.):**

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

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**LABORATORY ACCREDITATION INFORMATION**

**TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Cert?
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.  
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



**Apex Laboratories, LLC**

12232 S.W. Garden Place  
Tigard, OR 97223  
503-718-2323  
EPA ID: OR01039

**Wood Environment & Infrastructure Solutions, Inc.**  
7376 SW Durham Road  
Portland, OR 97224

Project: **Intel Compliance**  
Project Number: 761M131872  
Project Manager: Dan Schall

Report ID:  
A8F0023 - 06 15 18 0946

**APEX LABS COOLER RECEIPT FORM**

Client: Wood / Amec Element WO#: A8 F0023  
Project/Project #: Intel Compliance / #761M131872  
Delivery info: arrived 11/18  
Date/Time Received: 6/11/18 @ 1337 By: AKK  
Delivered by: Apex Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐  
Cooler Inspection Inspected by: AKK : 6/11/18 @ 1340  
Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒  
Signed/Dated by Client? Yes ☒ No ☐  
Signed/Dated by Apex? Yes ☒ No ☐  

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)							
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)	<u>5.4</u>						
Ice Type: (Gel/Real/Other)	<u>good</u>						
Condition:							
Cooler out of temp? (Y/N) Possible reason why:							
If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA							
Samples Inspection: Inspected by: <u>AKK</u> : <u>6/11/18 @ 1344</u>							
All Samples Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:							
Bottle Labels/COCs agree? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:							
Containers/Volumes Received Appropriate for Analysis? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:							
Do VOA Vials have Visible Headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>							
Comments:							
Water Samples: pH Checked and Appropriate (except VOAs): Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>							
Comments:							
Additional Information:							
Labeled by: <u>AKK</u>	Witness: <u>W</u>	Cooler Inspected by: <u>AKK</u>	See Project Contact Form: Y				

Apex Laboratories

Philip Nerenberg, Lab Director

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**ATTACHMENT C**

pH Field Notes



File in the Room

Intel Aloha pH Readings					2017-2018		29	
Outfall	Date	Time	pH [s.u.]	Instrument Calibration	Last			
ALMP-1	11/30/17	1300	7.0	#3	11/15/17			
ALMP-2	11/30/17	1338	7.2	#3	11/15/17			
ALMP-1	12/19/17	0835	6.9	#3	12/14/17			
ALMP-2	12/19/17	0940	6.0	#3	12/14/17			
ALMP-1	3/21/18	2359	6.5	#3	3/6/18			
ALMP-2	3/21/18	2235	6.2	#3	3/6/18			
ALMP-1	5/31/18	2251	8.1	#2	5/31/18			
ALMP-2	5/31/18	2232	6.2	#2	5/31/18			

Sampled By: ~~Matthew Brown~~ *Matthew Brown*