



April 21, 2023

Terry Taylor  
Gresham-Barlow School District  
Director of Facilities  
Gresham, Oregon

Via email: taylor6@gresham.k12.or.us

Regarding: Water Sampling Report  
Deep Creek Elementary School  
14151 SE 242nd Avenue  
Damascus, Oregon 97089  
PBS Project 23767.133 Phase 0002

Dear Mr. Taylor:

On April 6, 2023, PBS Engineering and Environmental Inc. (PBS) performed water sampling of water outlets throughout Deep Creek Elementary School located at 14151 SE 242nd Avenue in Damascus, Oregon. In response to mitigation efforts performed by the Gresham-Barlow School District (District), PBS performed sampling at all outlets that previously showed concentrations of lead above the action level. All testing was requested by the District.

### **EXECUTIVE SUMMARY**

Results showed concentrations of lead in all tested outlets were below action levels.

### **REGULATORY GUIDANCE**

Sampling methodology and the interpretation of laboratory results was based on guidance provided under OAR 333-061-0400 and OAR 518-022-2223. Following these regulations, PBS collected the first 250 milliliters (mL) of water from each test location. Each sample was collected after the water had been sitting stagnant between 8 and 18 hours. This protocol is intended to maximize the likelihood that the highest concentrations of lead are found because the first 250 mL are analyzed for lead after overnight stagnation. Sampling protocol specifies 250-mL samples designed to assess the worst cases where the outlet is used for consumption.

OAR 333-061-0400 sets an action level at 15 parts per billion (ppb) and states that schools must perform follow-up testing every six years starting July 1, 2020, unless the tap was installed after 2014, meets the lead-free standard of no more than 0.25% lead by weight, and the tap was tested and no more than 1 ppb of lead was detected.

The samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis.

### **RESULTS**

A total of 8 fixtures were sampled. Laboratory analysis indicated that all drinking water samples contained lead at concentrations below the Environmental Protection Agency (EPA) action level of 15 ppb. See the table below for more details.

**Table 1: Drinking Water Sample Analytic Results**

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)**
21830100-02CF23A	Classroom 02	Classroom Faucet	Follow-Up	2.85
21830100-04CF23A	Classroom 04	Classroom Faucet	Follow-Up	1.68
21830100-19CF23A	Classroom 09	Classroom Faucet	Follow-Up	2.55
21830100-21CF23A	Classroom 11	Classroom Faucet	Follow-Up	6.41
21830100-29CF23A	Classroom 15	Classroom Faucet	Follow-Up	1.13
21830100-31CF23A	Classroom 17	Classroom Faucet	Follow-Up	0.706
21830100-37CF23A	Classroom 19	Classroom Faucet	Follow-Up	1.19
21830100-46CF23A	Room 35	Classroom Faucet	Follow-Up	0.598

ND = None Detected

\*Sample ID numbers were assigned using rules created by the Oregon Department of Education.

\*\*Sample results are presented in parts per billion (ppb).

**CONCLUSIONS AND RECOMMENDATIONS**

All outlets sampled have shown lead levels below the action limit and are safe for use.

For more detail, please refer to the attached chain-of-custody form and laboratory report. It should be noted that quality control (QC) sample results are included at the end of laboratory information. The QC samples are both laboratory blanks and spiked samples used internally by the laboratory to assess accuracy. Please feel free to contact me at 971.284.7762 or joel.mccarthy@pbsusa.com with any questions or comments.

Sincerely,

Joel McCarthy,  
 Sr. Project Manager  
 PBS Engineering and Environmental Inc.

Attachments: Laboratory Results  
 Chain-of-Custody Form

The information contained in this document is proprietary and shall not be duplicated, used, or disclosed in whole or in part to other parties without the permission of PBS.



ANALYTICAL REPORT

**Apex Laboratories, LLC**  
6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Thursday, April 20, 2023  
Joel McCarthy  
PBS Engineering and Environmental  
4412 S Corbett Ave  
Portland, OR 97239

RE: A3D1012 - Deep Creek K-8 - 23767.133

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 A3D1012, which was received by the laboratory on 4/7/2023 at 12:55:00PM.

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

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

---

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler            19.6 degC

---

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.

---



---

Apex Laboratories

*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.*

---

Jason Woodcock, Project Manager



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b><u>PBS Engineering and Environmental</u></b> 4412 S Corbett Ave Portland, OR 97239	Project: <b><u>Deep Creek K-8</u></b> Project Number: 23767.133 Project Manager: Joel McCarthy	<b>Report ID:</b> A3D1012 - 04 20 23 1013
---	--	--

**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21830100-02CF23A	A3D1012-01	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-04CF23A	A3D1012-02	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-19CF23A	A3D1012-03	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-21CF23A	A3D1012-04	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-29CF23A	A3D1012-05	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-31CF23A	A3D1012-06	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-37CF23A	A3D1012-07	Drinking Water	04/06/23 00:00	04/07/23 12:55
21830100-46CF23A	A3D1012-08	Drinking Water	04/06/23 00:00	04/07/23 12:55

Apex Laboratories

*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.*

Jason Woodcock, Project Manager



ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Deep Creek K-8</b> Project Number: <b>23767.133</b> Project Manager: <b>Joel McCarthy</b>	<b>Report ID:</b> <b>A3D1012 - 04 20 23 1013</b>
--	---	---

**ANALYTICAL SAMPLE RESULTS**

**Total Metals in Drinking Water by EPA 200.8 (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>21830100-02CF23A (A3D1012-01)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>2.85</b>	---	0.200	ug/L	1	04/18/23 13:43	EPA 200.8	
<b>21830100-04CF23A (A3D1012-02)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>1.68</b>	---	0.200	ug/L	1	04/18/23 13:46	EPA 200.8	
<b>21830100-19CF23A (A3D1012-03)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>2.55</b>	---	0.200	ug/L	1	04/18/23 13:47	EPA 200.8	
<b>21830100-21CF23A (A3D1012-04)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>6.41</b>	---	0.200	ug/L	1	04/18/23 13:49	EPA 200.8	
<b>21830100-29CF23A (A3D1012-05)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>1.13</b>	---	0.200	ug/L	1	04/18/23 13:50	EPA 200.8	
<b>21830100-31CF23A (A3D1012-06)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>0.706</b>	---	0.200	ug/L	1	04/18/23 13:51	EPA 200.8	
<b>21830100-37CF23A (A3D1012-07)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0505</u>								
<b>Lead</b>	<b>1.19</b>	---	0.200	ug/L	1	04/18/23 13:55	EPA 200.8	
<b>21830100-46CF23A (A3D1012-08)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23D0509</u>								
<b>Lead</b>	<b>0.598</b>	---	0.222	ug/L	1	04/13/23 15:14	EPA 200.8	<b>DW-D</b>

Apex Laboratories

*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.*

Jason Woodcock, Project Manager



ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Deep Creek K-8</b> Project Number: <b>23767.133</b> Project Manager: <b>Joel McCarthy</b>	<b>Report ID:</b> <b>A3D1012 - 04 20 23 1013</b>
--	---	---

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Total Metals in Drinking Water 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 23D0505 - EPA 200.8 Direct Analysis</b>						<b>Drinking Water</b>						
<b>Blank (23D0505-BLK1)</b>		Prepared: 04/13/23 08:05 Analyzed: 04/18/23 13:40										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
<b>LCS (23D0505-BS1)</b>		Prepared: 04/13/23 08:05 Analyzed: 04/18/23 13:41										
<u>EPA 200.8</u>												
Lead	15.6	---	0.201	ug/L	1	15.0	---	104	85 - 115%	---	---	---
<b>Duplicate (23D0505-DUP1)</b>		Prepared: 04/13/23 08:05 Analyzed: 04/18/23 13:44										
<u>QC Source Sample: 21830100-02CF23A (A3D1012-01)</u>												
<u>EPA 200.8</u>												
Lead	<b>2.80</b>	---	0.200	ug/L	1	---	2.85	---	---	2	20%	---
<b>Matrix Spike (23D0505-MS1)</b>		Prepared: 04/13/23 08:05 Analyzed: 04/18/23 13:45										
<u>QC Source Sample: 21830100-02CF23A (A3D1012-01)</u>												
<u>EPA 200.8</u>												
Lead	18.0	---	0.201	ug/L	1	15.0	2.85	101	70 - 130%	---	---	---
<b>Batch 23D0509 - EPA 3015A</b>						<b>Drinking Water</b>						
<b>Blank (23D0509-BLK1)</b>		Prepared: 04/13/23 09:12 Analyzed: 04/13/23 14:35										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
<b>LCS (23D0509-BS1)</b>		Prepared: 04/13/23 09:12 Analyzed: 04/13/23 14:40										
<u>EPA 200.8</u>												
Lead	16.8	---	0.222	ug/L	1	16.7	---	101	85 - 115%	---	---	---

Apex Laboratories

*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.*

Jason Woodcock, Project Manager



ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323

ORELAP ID: OR100062

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Deep Creek K-8</b> Project Number: <b>23767.133</b> Project Manager: <b>Joel McCarthy</b>	<b>Report ID:</b> <b>A3D1012 - 04 20 23 1013</b>
--	---	---

**SAMPLE PREPARATION INFORMATION**

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

<u>Prep: EPA 200.8 Direct Analysis</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0505</u>							
A3D1012-01	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
A3D1012-02	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
A3D1012-03	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
A3D1012-04	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
A3D1012-05	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
A3D1012-06	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
A3D1012-07	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 08:05	10mL/10mL	10mL/10mL	1.00
<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0509</u>							
A3D1012-08	Drinking Water	EPA 200.8	04/06/23 00:00	04/13/23 09:12	45mL/50mL	10mL/10mL	1.11

Apex Laboratories

*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.*

Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Deep Creek K-8</u> Project Number: 23767.133 Project Manager: Joel McCarthy	<u>Report ID:</u> A3D1012 - 04 20 23 1013
--	---	--

QUALIFIER DEFINITIONS

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

Apex Laboratories

DW-D Turbidity greater than 1 NTU. Sample was digested per EPA Method 200.8.

Apex Laboratories

*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.*

Jason Woodcock, Project Manager



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b><u>PBS Engineering and Environmental</u></b> 4412 S Corbett Ave Portland, OR 97239	Project: <b><u>Deep Creek K-8</u></b> Project Number: <b>23767.133</b> Project Manager: <b>Joel McCarthy</b>	<b>Report ID:</b> <b>A3D1012 - 04 20 23 1013</b>
---	--	---

**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. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**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) are not 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.

Apex Laboratories

*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.*



**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b><u>PBS Engineering and Environmental</u></b> 4412 S Corbett Ave Portland, OR 97239	Project: <b><u>Deep Creek K-8</u></b> Project Number: <b>23767.133</b> Project Manager: <b>Joel McCarthy</b>	<b>Report ID:</b> <b>A3D1012 - 04 20 23 1013</b>
---	--	---

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

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample 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.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

*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.*

Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Deep Creek K-8), and Report ID (A3D1012 - 04 20 23 1013).

LABORATORY ACCREDITATION INFORMATION

ORELAP 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

Table header with columns: Matrix, Analysis, TNI\_ID, Analyte, TNI\_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

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


Handwritten signature of Jason Woodcock

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.

Jason Woodcock, Project Manager

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Deep Creek K-8</b> Project Number: <b>23767.133</b> Project Manager: <b>Joel McCarthy</b>	<b>Report ID:</b> <b>A3D1012 - 04 20 23 1013</b>
--	---	---

A3D1012



**LEAD IN DRINKING WATER CHAIN OF CUSTODY**

Project Name Deep Creek K-8 Project No: 23767.133 Phase: ODD2 Task: \_\_\_\_\_

Samples **submitted** undamaged to lab by: Name/Sign: Ellie D. [Signature] Date: 4-6-22 Time: 14:00  
(Inspector)

Samples **received** by lab undamaged: Name/Sign: [Signature] Date: 4/7/23 Time: 1255  
(Lab)

Lab APEX Turnaround time (check one):  5 days  10 days  
(specify)

Send Results to: Joel M., Ellie D.,

SAMPLE #	DATE COLLECTED	BUILDING	ROOM	DESCRIPTION
21830100-02CF23A	04-06-23	Main	CR 02	
21830100-04CF23A	04-06-23	Main	CR 04	
21830100-19CF23A	04-06-23	Main	CR 09	
21830100-21CF23A	04-06-23	Main	CR 11	
21830100-29CF23A	04-06-23	Main	CR 15	
21830100-31CF23A	04-06-23	Main	CR 17	
21830100-37CF23A	04-06-23	Main	CR 19	
21830100-46CF23A	04-06-23	Main	Resource Room	





**ANALYTICAL REPORT**

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Deep Creek K-8</b> Project Number: 23767.133 Project Manager: Joel McCarthy	<b>Report ID:</b> A3D1012 - 04 20 23 1013
--	---	--

**APEX LABS COOLER RECEIPT FORM**

Client: PBS-PDX Element WO#: A3D1012  
 Project/Project #: DEEP CREEK K-8 12767.133

**Delivery Info:**  
 Date/time received: 4/7/23 @ 1255 By: SAT  
 Delivered by: Apex  Client  ESS  FedEx  UPS  Radio  Morgan  SDS  Evergreen  Other

**Cooler Inspection** Date/time inspected: 4/7/23 @ 1320 By: SAT  
 Chain of Custody included? Yes  No   
 Signed/dated by client? Yes  No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>19.6</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>None</u>						
Condition (In/Out):	<u>OUT</u>						

Cooler out of temp?  Possible reason why: DRINKING WATER  
 Green dots applied to out of temperature samples? Yes   
 Out of temperature samples form initiated? Yes   
**Sample Inspection:** Date/time inspected: 4/10/23 @ 11:36 By: AAW  
 All samples intact? Yes  No  Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: No prefix on cont., and no date. 29CF23A cont. ID records 26CF23A, matched by process of elimination  
 COC/container discrepancies form initiated? Yes  No   
 Containers/volumes received appropriate for analysis? Yes  No  Comments: \_\_\_\_\_

Do VOA vials have visible headspace? Yes  No  NA   
 Comments: \_\_\_\_\_

Water samples: pH checked: Yes  No  NA  pH appropriate? Yes  No  NA   
 Comments: \_\_\_\_\_

**Additional information:**  
 \_\_\_\_\_  
 \_\_\_\_\_

Labeled by: AAW Witness: DJS Cooler Inspected by: AAW  
 Form Y-003 R-00

Apex Laboratories

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.

Jason Woodcock, Project Manager