



June 16, 2023

Brent Perrin  
Reynolds School District  
1204 NE 201st Avenue  
Fairview, Oregon 97024

Via email: BPerrin@rsd7.net

Regarding: Drinking Water Sampling Report  
Sweetbriar Elementary School  
501 SE Sweetbriar Lane  
Troutdale, OR  
PBS Project 23514.186

Mr. Perrin:

In May 2023, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling and analysis for lead at Sweetbriar Elementary School in Portland, Oregon. The testing was requested by Reynolds School District (the District) to meet requirements from the Oregon Department of Education (ODE) and Oregon Health Authority (OHA) to conduct testing for lead in school drinking water systems.

### **Background and Sampling Procedure**

Oregon Administrative Rule (OAR) 333-061-0400 *Reducing Lead In School Drinking Water* requires school districts to conduct initial testing for lead from each qualifying tap.

The sampling methodology followed the protocol described in Section 4 of the EPA document *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018* and guidelines established by Oregon Health Authority and Oregon Department of Education. Following these guidelines, PBS assigned identification numbers and collected first draw samples from each test location. First draw samples consist of the first 250 milliliters (mL) of water drawn from a fixture during an early morning after school was in session the previous day, and before the fixture has been used again in the morning. The 3Ts' sampling protocol is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified.

PBS tested all taps in the building(s) eligible for testing according to OAR 333-061-0400, which requires testing of all taps except the following: shower heads, pipes used for building heating, dedicated eyewash stations and emergency showers, fixtures in areas with no student access used solely for sanitation by staff, fixtures used exclusively for irrigation, and fixtures in science and technical education classrooms (grades 6-12) where the fixtures have signage indicating they are not a drinking water source and are not intended for use in food preparation.

PBS assigned sample numbers to fixtures according to the ODE naming convention and using the ODE district and building codes provided by the District to PBS. When multiple samples were collected in the same area, PBS assigned numbers and sampled in a clockwise fashion starting on the left.

The District has previously completed some testing, but did not test all fixtures that are now required to be tested by ODE and did not use the sample naming convention now used by ODE, as ODE rules have changed since 2016.

**Results**

First draw samples were collected from 58 fixtures and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis using EPA Method 200.8 ICPMS. Samples above the action level of 15 ppb are shown in bold. The following table lists the results of the analysis.

**Table 1: Sweetbriar Elementary School - Sample Results**

<b>Fixture Number</b>	<b>Sample Number</b>	<b>Location / Room No.</b>	<b>Fixture Type</b>	<b>Results (ppb)</b>
001	21820700-001KF23A	Kitchen, southeast	Kitchen faucet	2.46
002	21820700-002KF23A	Kitchen, north	Kitchen faucet	5.40
003	21820700-003KF23A	Kitchen, north	Kitchen faucet	6.85
004	21820700-004KF23A	Kitchen center island	Kitchen faucet	8.80
005	21820700-005SF23A	Kitchen southeast	Staff faucet	3.35
<b>006</b>	<b>21820700-006SF23A</b>	<b>Gym teacher restroom</b>	<b>Staff faucet</b>	<b>20.7</b>
007	21820700-007WB23A	Gym	Water bottle fill	ND
008	21820700-008DW23A	Gym	Drinking fountain	ND
009	21820700-009DW23A	SW corridor	Drinking fountain	ND
010	21820700-010DW23A	SW corridor	Drinking fountain	ND
011	21820700-011WB23A	SW corridor	Water bottle fill	ND
012	21820700-012BF23A	SW corridor boy's restroom	Bathroom faucet	5.55
013	21820700-013BF23A	SW corridor boy's restroom	Bathroom faucet	3.70
014	21820700-014BF23A	SW corridor girl's restroom	Bathroom faucet	14.8
015	21820700-015BF23A	SW corridor girl's restroom	Bathroom faucet	4.28
<b>016</b>	<b>21820700-016CF23A</b>	<b>Room 22</b>	<b>Classroom faucet</b>	<b>24.0</b>
017	21820700-017NS23A	Nurses station bathroom	Nurses sink	0.581
018	21820700-018SF23A	Main office staff restroom	Staff faucet	1.91
019	21820700-019SF23A	Main office kitchen	Staff faucet	1.56
020	21820700-020WB23A	Main office kitchen	Water bottle fill	ND
021	21820700-021BF23A	South classroom cluster west bathroom	Bathroom faucet	1.21
022	21820700-022DW23A	Room 1	Drinking fountain	0.725
023	21820700-023CF23A	Room 1	Classroom faucet	13.5
024	21820700-024CF23A	Room 2	Classroom faucet	11.1
025	21820700-025DW23A	Room 2	Drinking fountain	0.443
026	21820700-026DW23A	Outside Room 3	Drinking fountain	ND
<b>027</b>	<b>21820700-027CF23A</b>	<b>Outside Room 3</b>	<b>Classroom faucet</b>	<b>16.1</b>
028	21820700-028DW23A	Outside Room 4	Drinking fountain	0.410
<b>029</b>	<b>21820700-029CF23A</b>	<b>Outside Room 4</b>	<b>Classroom faucet</b>	<b>18.0</b>
030	21820700-030DW23A	Room 5	Drinking fountain	0.374
<b>031</b>	<b>21820700-031CF23A</b>	<b>Room 5</b>	<b>Classroom faucet</b>	<b>31.9</b>
032	21820700-032BF23A	South classroom cluster east bathroom	Bathroom faucet	3.87

Fixture Number	Sample Number	Location / Room No.	Fixture Type	Results (ppb)
033	21820700-033CF23A	SE classroom cluster, west	Classroom faucet	5.21
034	21820700-034DW23A	SE classroom cluster, west	Drinking fountain	ND
035	21820700-035CF23A	SE classroom cluster, east	Classroom faucet	0.593
036	21820700-036DW23A	SE classroom cluster, east	Drinking fountain	ND
037	21820700-037CF23A	NE classroom cluster, east	Classroom faucet	5.51
038	21820700-038CF23A	NE classroom cluster, west	Classroom faucet	3.94
039	21820700-039DW23A	NE classroom cluster, west	Drinking fountain	ND
040	21820700-040BF23A	North classroom cluster, east bathroom	Bathroom faucet	0.710
041	21820700-041DW23A	Room 15	Drinking fountain	0.311
042	21820700-042CF23A	Room 15	Classroom faucet	14.0
043	21820700-043CF23A	Room 16	Classroom faucet	2.10
044	21820700-044DW23A	Room 16	Drinking fountain	ND
045	21820700-045DW23A	Outside Room 17	Drinking fountain	0.394
046	21820700-046CF23A	Outside Room 17	Classroom faucet	3.11
047	21820700-047DW23A	Outside Room 18	Drinking fountain	ND
048	21820700-048CF23A	Outside Room 18	Classroom faucet	5.38
049	21820700-049DW23A	Room 19	Drinking fountain	12.8
<b>050</b>	<b>21820700-050CF23A</b>	<b>Room 19</b>	<b>Classroom faucet</b>	<b>24.0</b>
051	21820700-051BF23A	North classroom cluster, west	Bathroom faucet	1.91
<b>052</b>	<b>21820700-052CF23A</b>	<b>Counselor</b>	<b>Classroom faucet</b>	<b>22.7</b>
053	21820700-053CF23A	Room 23	Classroom faucet	2.90
<b>054</b>	<b>21820700-054CF23A</b>	<b>Room 24</b>	<b>Classroom faucet</b>	<b>17.9</b>
055	21820700-055WB23A	Second floor teachers lounge	Water bottle fill	ND
056	21820700-056SF23A	Second floor teachers lounge	Staff faucet	1.75
057	21820700-057SF23A	Second floor teachers lounge west bathroom	Staff faucet	4.33
058	21820700-058SF23A	Second floor teachers lounge east bathroom	Staff faucet	5.50

ND = no lead detected

Elevated concentrations of lead were found in eight fixtures throughout the building. Access to these fixtures should be restricted in accordance with Oregon and EPA guidelines. PBS recommends taking corrective action per recommendations in EPA's 3Ts Module 6. Given that the majority of fixtures in the building tested below 15.0, it is unlikely that there is a building-wide source of lead in drinking water beyond the fixtures themselves. However, EPA protocol recommends follow-up flush sampling at all locations where first-draw samples contain lead concentrations greater than 15 parts per billion (ppb). PBS also recommends either remediating the fixtures or installing a local filter, then flushing them and retesting in accordance with ODE guidelines. PBS is available to assist with further investigation and corrective actions upon request.

Please refer to the attached sample location field drawing and laboratory analytical report for additional details. The laboratory analytical results are reported in micrograms per liter (µg/L), a unit of measure that is equivalent to ppb.

### **Reimbursement**

The District may be eligible for reimbursement from the State of Oregon for the cost of laboratory analytical testing and shipping, but not consultant fees. This is done by completing out the ODE's reimbursement template spreadsheet for each facility and submitting the information to ODE. PBS is available to assist with filing for reimbursement upon request, but it is not currently in our scope of work.

### **Ongoing Testing**

According to OAR 333-061-0400, school districts are required to complete on-going testing at least once every six years, starting from July 1, 2020. Taps are exempt from ongoing testing if the tap was installed after January 4, 2014 and meets the lead-free standard of no more than 0.25 percent lead by weight and the piping feeding the tap is a material other than copper or was installed after January 4, 2014 and the solder and flux meets the leadfree standard of no more than 0.2 percent lead; and was tested during initial testing and results were less than 1 ppb lead. The District should investigate whether any taps at this facility meet the requirements to suspend ongoing testing. The District should consult with ODE to determine when they should complete ongoing testing.

Please feel free to contact me at 503.515.7489 or [james.mastanduno@pbsusa.com](mailto:james.mastanduno@pbsusa.com) with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'James Mastanduno', with a stylized flourish at the end.

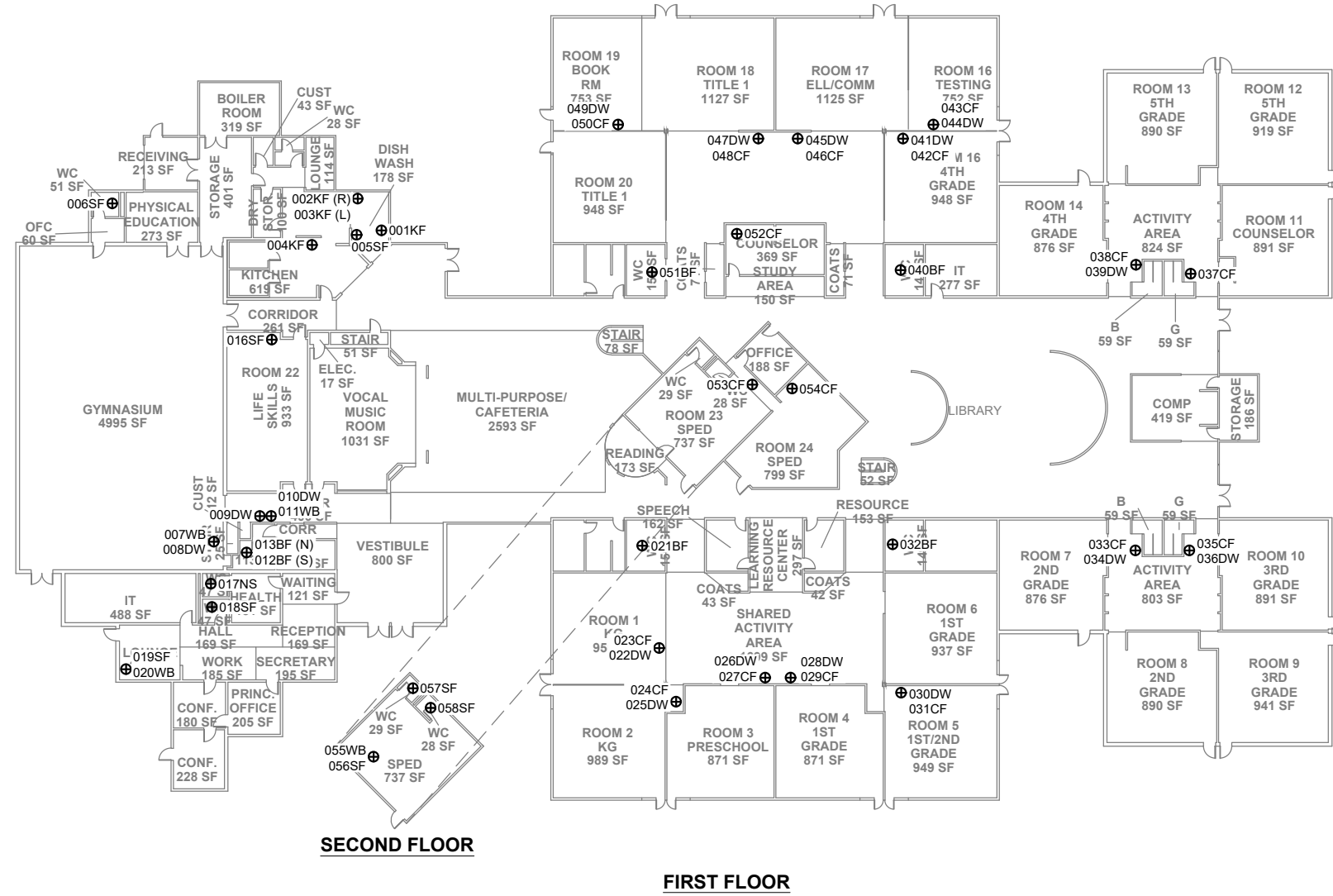
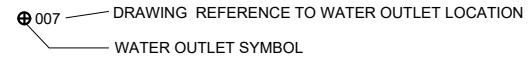
James Mastanduno  
Project Manager

Attachments: Fixture Location Map  
Laboratory Analytical Report

**GENERAL NOTES**

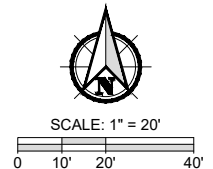
1. THIS DRAWING IS DIAGRAMMATIC. IT IS INTENDED TO SHOW OUTLET NUMBERS AND LOCATIONS RELATED TO DRINKING WATER SAMPLING.
2. IN SPACES WITH MULTIPLE OUTLETS, OUTLETS ARE NUMBERED CLOCKWISE FROM MAIN ENTRANCE UNLESS OTHERWISE SHOWN.

**WATER OUTLET SYMBOLS**



Filename: L:\Projects\23000\23500\23514\186\_0001\_007\_DWI.dwg Layout Tab: 11X17 User: Jim Blanco CAD Plot Date/Time: 5/31/2023 10:39:44 AM

FULL SIZE SHEET FORMAT IS 24X36; IF PRINTED SIZE IS NOT 24X36, THEN THIS SHEET FORMAT HAS BEEN MODIFIED & INDICATED DRAWING SCALE IS NOT ACCURATE.



PREPARED FOR: REYNOLDS SCHOOL DISTRICT

PBS Engineering and  
 Construction  
 4412 SW Canyon Blvd., Suite  
 Portland, OR 97239  
 503.248.1039  
 pbsusa.com

**DRINKING WATER FIXTURE LOCATION PLAN**  
**SWEETBRIAR ELEMENTARY SCHOOL**  
 501 SE SWEETBRIAR LANE, TROUTDALE, OREGON

NO	REVISION	DATE	BY	APPD

DRAWN BY: JAB  
 CHECKED: JH  
 DATE: MAY 2023  
 PROJECT NUMBER: 23514.186 0001 007  
 SHEET DRAWING NO:  
**DW1**  
 SHEET 1 OF 1



ANALYTICAL REPORT

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

Tuesday, June 13, 2023  
James Mastanduno  
PBS Engineering and Environmental  
4412 S Corbett Ave  
Portland, OR 97239

RE: A3E1828 - Reynolds School District - Sweetbriar ES/23514.186

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 A3E1828, which was received by the laboratory on 5/30/2023 at 12:40:00PM.

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.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler            18.3 degC

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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

*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.*

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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>Reynolds School District</b> Project Number: Sweetbriar ES/23514.186 Project Manager: James Mastanduno	<b>Report ID:</b> A3E1828 - 06 13 23 1349
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**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21820700-001KF23A	A3E1828-01	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-002KF23A	A3E1828-02	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-003KF23A	A3E1828-03	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-004KF23A	A3E1828-04	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-005SF23A	A3E1828-05	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-006SF23A	A3E1828-06	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-007WB23A	A3E1828-07	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-008DW23A	A3E1828-08	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-009DW23A	A3E1828-09	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-010DW23A	A3E1828-10	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-011WB23A	A3E1828-11	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-012BF23A	A3E1828-12	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-013BF23A	A3E1828-13	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-014BF23A	A3E1828-14	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-015BF23A	A3E1828-15	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-016CF23A	A3E1828-16	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-017NS23A	A3E1828-17	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-018SF23A	A3E1828-18	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-019SF23A	A3E1828-19	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-020WB23A	A3E1828-20	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-021BF23A	A3E1828-21	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-022DW23A	A3E1828-22	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-023CF23A	A3E1828-23	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-024CF23A	A3E1828-24	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-025DW23A	A3E1828-25	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-026DW23A	A3E1828-26	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-027CF23A	A3E1828-27	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-028DW23A	A3E1828-28	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-029CF23A	A3E1828-29	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-030DW23A	A3E1828-30	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-031CF23A	A3E1828-31	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-032BF23A	A3E1828-32	Drinking Water	05/26/23 00:00	05/30/23 12:40

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ANALYTICAL REPORT

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<b><u>PBS Engineering and Environmental</u></b> 4412 S Corbett Ave Portland, OR 97239	Project: <b><u>Reynolds School District</u></b> Project Number: Sweetbriar ES/23514.186 Project Manager: James Mastanduno	<b>Report ID:</b> A3E1828 - 06 13 23 1349
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**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21820700-033CF23A	A3E1828-33	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-034DW23A	A3E1828-34	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-035CF23A	A3E1828-35	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-036DW23A	A3E1828-36	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-037CF23A	A3E1828-37	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-038CF23A	A3E1828-38	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-039DW23A	A3E1828-39	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-040BF23A	A3E1828-40	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-041DW23A	A3E1828-41	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-042CF23A	A3E1828-42	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-043CF23A	A3E1828-43	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-044DW23A	A3E1828-44	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-045DW23A	A3E1828-45	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-046CF23A	A3E1828-46	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-047DW23A	A3E1828-47	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-048CF23A	A3E1828-48	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-049DW23A	A3E1828-49	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-050CF23A	A3E1828-50	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-051BF23A	A3E1828-51	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-052CF23A	A3E1828-52	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-053CF23A	A3E1828-53	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-054CF23A	A3E1828-54	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-055WB23A	A3E1828-55	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-056SF23A	A3E1828-56	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-057SF23A	A3E1828-57	Drinking Water	05/26/23 00:00	05/30/23 12:40
21820700-058SF23A	A3E1828-58	Drinking Water	05/26/23 00:00	05/30/23 12:40

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Jason Woodcock, Project Manager





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**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>21820700-001KF23A (A3E1828-01)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	2.46	---	0.200	ug/L	1	06/06/23 14:42	EPA 200.8	
<b>21820700-002KF23A (A3E1828-02)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0187</u>								
Lead	5.40	---	0.222	ug/L	1	06/07/23 05:05	EPA 200.8	<b>DW-D</b>
<b>21820700-003KF23A (A3E1828-03)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	6.85	---	0.200	ug/L	1	06/06/23 14:43	EPA 200.8	
<b>21820700-004KF23A (A3E1828-04)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0187</u>								
Lead	8.80	---	0.222	ug/L	1	06/07/23 05:10	EPA 200.8	<b>DW-D</b>
<b>21820700-005SF23A (A3E1828-05)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	3.35	---	0.200	ug/L	1	06/06/23 14:45	EPA 200.8	
<b>21820700-006SF23A (A3E1828-06)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	20.7	---	0.200	ug/L	1	06/06/23 14:46	EPA 200.8	
<b>21820700-007WB23A (A3E1828-07)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 14:48	EPA 200.8	
<b>21820700-008DW23A (A3E1828-08)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 14:49	EPA 200.8	
<b>21820700-009DW23A (A3E1828-09)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 14:51	EPA 200.8	
<b>21820700-010DW23A (A3E1828-10)</b>				<b>Matrix: Drinking Water</b>				

Apex Laboratories

Jason Woodcock, Project Manager

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**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Reynolds School District</b> Project Number: <b>Sweetbriar ES/23514.186</b> Project Manager: <b>James Mastanduno</b>	<b>Report ID:</b> <b>A3E1828 - 06 13 23 1349</b>
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**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>21820700-010DW23A (A3E1828-10)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0151</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 14:56	EPA 200.8	
<b>21820700-011WB23A (A3E1828-11)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 15:08	EPA 200.8	
<b>21820700-012BF23A (A3E1828-12)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	5.55	---	0.200	ug/L	1	06/06/23 15:15	EPA 200.8	
<b>21820700-013BF23A (A3E1828-13)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	3.70	---	0.200	ug/L	1	06/06/23 15:17	EPA 200.8	
<b>21820700-014BF23A (A3E1828-14)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	14.8	---	0.200	ug/L	1	06/06/23 15:18	EPA 200.8	
<b>21820700-015BF23A (A3E1828-15)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	4.28	---	0.200	ug/L	1	06/06/23 15:20	EPA 200.8	
<b>21820700-016CF23A (A3E1828-16)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	24.0	---	0.200	ug/L	1	06/06/23 15:21	EPA 200.8	
<b>21820700-017NS23A (A3E1828-17)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	0.581	---	0.200	ug/L	1	06/06/23 15:22	EPA 200.8	
<b>21820700-018SF23A (A3E1828-18)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0163</u>								
Lead	1.91	---	0.200	ug/L	1	06/06/23 15:24	EPA 200.8	
<b>21820700-019SF23A (A3E1828-19)</b>				<b>Matrix: Drinking Water</b>				

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<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Reynolds School District</b> Project Number: <b>Sweetbriar ES/23514.186</b> Project Manager: <b>James Mastanduno</b>	<b>Report ID:</b> <b>A3E1828 - 06 13 23 1349</b>
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**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>21820700-019SF23A (A3E1828-19)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	1.56	---	0.200	ug/L	1	06/06/23 15:25	EPA 200.8	
<b>21820700-020WB23A (A3E1828-20)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	ND	---	0.200	ug/L	1	06/06/23 15:27	EPA 200.8	
<b>21820700-021BF23A (A3E1828-21)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	1.21	---	0.200	ug/L	1	06/06/23 15:33	EPA 200.8	
<b>21820700-022DW23A (A3E1828-22)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	0.725	---	0.200	ug/L	1	06/06/23 15:34	EPA 200.8	
<b>21820700-023CF23A (A3E1828-23)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	13.5	---	0.200	ug/L	1	06/06/23 15:36	EPA 200.8	
<b>21820700-024CF23A (A3E1828-24)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	11.1	---	0.200	ug/L	1	06/06/23 15:37	EPA 200.8	
<b>21820700-025DW23A (A3E1828-25)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	0.443	---	0.200	ug/L	1	06/06/23 15:39	EPA 200.8	
<b>21820700-026DW23A (A3E1828-26)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	ND	---	0.200	ug/L	1	06/06/23 15:40	EPA 200.8	
<b>21820700-027CF23A (A3E1828-27)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	16.1	---	0.200	ug/L	1	06/06/23 15:41	EPA 200.8	
<b>21820700-028DW23A (A3E1828-28)</b>				<b>Matrix: Drinking Water</b>				

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**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>21820700-028DW23A (A3E1828-28)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	0.410	---	0.200	ug/L	1	06/06/23 15:43	EPA 200.8	
<b>21820700-029CF23A (A3E1828-29)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	18.0	---	0.200	ug/L	1	06/06/23 15:44	EPA 200.8	
<b>21820700-030DW23A (A3E1828-30)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0163								
Lead	0.374	---	0.200	ug/L	1	06/06/23 15:46	EPA 200.8	
<b>21820700-031CF23A (A3E1828-31)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0185								
Lead	31.9	---	0.200	ug/L	1	06/06/23 15:55	EPA 200.8	
<b>21820700-032BF23A (A3E1828-32)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0185								
Lead	3.87	---	0.200	ug/L	1	06/06/23 15:59	EPA 200.8	
<b>21820700-033CF23A (A3E1828-33)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0185								
Lead	5.21	---	0.200	ug/L	1	06/06/23 16:00	EPA 200.8	
<b>21820700-034DW23A (A3E1828-34)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0185								
Lead	ND	---	0.200	ug/L	1	06/06/23 16:02	EPA 200.8	
<b>21820700-035CF23A (A3E1828-35)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0185								
Lead	0.593	---	0.200	ug/L	1	06/06/23 16:03	EPA 200.8	
<b>21820700-036DW23A (A3E1828-36RE1)</b>				<b>Matrix: Drinking Water</b>				
Batch: 23F0185								
Lead	ND	---	0.200	ug/L	1	06/06/23 17:40	EPA 200.8	
<b>21820700-037CF23A (A3E1828-37RE1)</b>				<b>Matrix: Drinking Water</b>				

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**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>21820700-037CF23A (A3E1828-37RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>5.51</b>	---	0.200	ug/L	1	06/06/23 17:42	EPA 200.8	
<b>21820700-038CF23A (A3E1828-38RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>3.94</b>	---	0.200	ug/L	1	06/06/23 17:46	EPA 200.8	
<b>21820700-039DW23A (A3E1828-39RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	ND	---	0.200	ug/L	1	06/06/23 17:48	EPA 200.8	
<b>21820700-040BF23A (A3E1828-40RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>0.710</b>	---	0.200	ug/L	1	06/06/23 17:49	EPA 200.8	
<b>21820700-041DW23A (A3E1828-41RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>0.311</b>	---	0.200	ug/L	1	06/06/23 17:51	EPA 200.8	
<b>21820700-042CF23A (A3E1828-42RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>14.0</b>	---	0.200	ug/L	1	06/06/23 17:52	EPA 200.8	
<b>21820700-043CF23A (A3E1828-43RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>2.10</b>	---	0.200	ug/L	1	06/06/23 17:53	EPA 200.8	
<b>21820700-044DW23A (A3E1828-44RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	ND	---	0.200	ug/L	1	06/07/23 16:33	EPA 200.8	
<b>21820700-045DW23A (A3E1828-45RE1)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
<b>Lead</b>	<b>0.394</b>	---	0.200	ug/L	1	06/06/23 17:55	EPA 200.8	
<b>21820700-046CF23A (A3E1828-46)</b>				<b>Matrix: Drinking Water</b>				

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**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>21820700-046CF23A (A3E1828-46)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
Lead	3.11	---	0.200	ug/L	1	06/06/23 17:56	EPA 200.8	
<b>21820700-047DW23A (A3E1828-47)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 17:58	EPA 200.8	
<b>21820700-048CF23A (A3E1828-48)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
Lead	5.38	---	0.200	ug/L	1	06/06/23 17:59	EPA 200.8	
<b>21820700-049DW23A (A3E1828-49)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0187</u>								
Lead	12.8	---	0.222	ug/L	1	06/07/23 05:15	EPA 200.8	<b>DW-D</b>
<b>21820700-050CF23A (A3E1828-50)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
Lead	24.0	---	0.200	ug/L	1	06/06/23 18:03	EPA 200.8	
<b>21820700-051BF23A (A3E1828-51)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0185</u>								
Lead	1.91	---	0.200	ug/L	1	06/06/23 18:05	EPA 200.8	
<b>21820700-052CF23A (A3E1828-52)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	22.7	---	0.200	ug/L	1	06/06/23 18:11	EPA 200.8	
<b>21820700-053CF23A (A3E1828-53)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	2.90	---	0.200	ug/L	1	06/06/23 18:15	EPA 200.8	
<b>21820700-054CF23A (A3E1828-54)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	17.9	---	0.200	ug/L	1	06/06/23 18:17	EPA 200.8	
<b>21820700-055WB23A (A3E1828-55)</b>				<b>Matrix: Drinking Water</b>				

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**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>21820700-055WB23A (A3E1828-55)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	ND	---	0.200	ug/L	1	06/06/23 18:21	EPA 200.8	
<b>21820700-056SF23A (A3E1828-56)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	<b>1.75</b>	---	0.200	ug/L	1	06/06/23 18:22	EPA 200.8	
<b>21820700-057SF23A (A3E1828-57)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	<b>4.33</b>	---	0.200	ug/L	1	06/06/23 18:24	EPA 200.8	
<b>21820700-058SF23A (A3E1828-58)</b>				<b>Matrix: Drinking Water</b>				
<u>Batch: 23F0188</u>								
Lead	<b>5.50</b>	---	0.200	ug/L	1	06/06/23 18:25	EPA 200.8	

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**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	% REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch 23F0151 - EPA 200.8 Direct Analysis</b>						<b>Drinking Water</b>						
<b>Blank (23F0151-BLK1)</b>		Prepared: 06/06/23 08:00		Analyzed: 06/06/23 14:22								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
<b>LCS (23F0151-BS1)</b>		Prepared: 06/06/23 08:00		Analyzed: 06/06/23 14:23								
<u>EPA 200.8</u>												
Lead	17.1	---	0.201	ug/L	1	15.0	---	114	85 - 115%	---	---	
<b>Batch 23F0163 - EPA 200.8 Direct Analysis</b>						<b>Drinking Water</b>						
<b>Blank (23F0163-BLK1)</b>		Prepared: 06/06/23 09:25		Analyzed: 06/06/23 15:05								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
<b>LCS (23F0163-BS1)</b>		Prepared: 06/06/23 09:25		Analyzed: 06/06/23 15:06								
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	---	105	85 - 115%	---	---	
<b>Duplicate (23F0163-DUP1)</b>		Prepared: 06/06/23 09:25		Analyzed: 06/06/23 15:09								
<u>QC Source Sample: 21820700-011WB23A (A3E1828-11)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	0.100	---	---	***	<b>20%</b>	
<b>Matrix Spike (23F0163-MS1)</b>		Prepared: 06/06/23 09:25		Analyzed: 06/06/23 15:14								
<u>QC Source Sample: 21820700-011WB23A (A3E1828-11)</u>												
<u>EPA 200.8</u>												
Lead	15.5	---	0.201	ug/L	1	15.0	0.100	103	70 - 130%	---	---	
<b>Matrix Spike (23F0163-MS2)</b>		Prepared: 06/06/23 09:25		Analyzed: 06/06/23 15:50								
<u>QC Source Sample: 21820700-030DW23A (A3E1828-30)</u>												
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	0.374	105	70 - 130%	---	---	

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**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	% REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch 23F0185 - EPA 200.8 Direct Analysis</b>						<b>Drinking Water</b>						
<b>Blank (23F0185-BLK1)</b>		Prepared: 06/06/23 12:01 Analyzed: 06/06/23 15:52										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
<b>LCS (23F0185-BS1)</b>		Prepared: 06/06/23 12:01 Analyzed: 06/06/23 15:53										
<u>EPA 200.8</u>												
Lead	16.1	---	0.201	ug/L	1	15.0	---	107	85 - 115%	---	---	---
<b>Duplicate (23F0185-DUP1)</b>		Prepared: 06/06/23 12:01 Analyzed: 06/06/23 15:56										
<u>QC Source Sample: 21820700-031CF23A (A3E1828-31)</u>												
<u>EPA 200.8</u>												
Lead	32.6	---	0.200	ug/L	1	---	31.9	---	---	2	20%	---
<b>Matrix Spike (23F0185-MS1)</b>		Prepared: 06/06/23 12:01 Analyzed: 06/06/23 15:57										
<u>QC Source Sample: 21820700-031CF23A (A3E1828-31)</u>												
<u>EPA 200.8</u>												
Lead	47.2	---	0.201	ug/L	1	15.0	31.9	102	70 - 130%	---	---	---
<b>Matrix Spike (23F0185-MS2)</b>		Prepared: 06/06/23 12:01 Analyzed: 06/06/23 18:06										
<u>QC Source Sample: 21820700-051BF23A (A3E1828-51)</u>												
<u>EPA 200.8</u>												
Lead	15.9	---	0.201	ug/L	1	15.0	1.91	93	70 - 130%	---	---	---

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<b><u>PBS Engineering and Environmental</u></b> 4412 S Corbett Ave Portland, OR 97239	Project: <b><u>Reynolds School District</u></b> Project Number: <b>Sweetbriar ES/23514.186</b> Project Manager: <b>James Mastanduno</b>	<b>Report ID:</b> <b>A3E1828 - 06 13 23 1349</b>
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**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 23F0187 - EPA 3015A</b>						<b>Drinking Water</b>						
<b>Blank (23F0187-BLK1)</b>		Prepared: 06/06/23 12:18 Analyzed: 06/07/23 04:39										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
<b>LCS (23F0187-BS1)</b>		Prepared: 06/06/23 12:18 Analyzed: 06/07/23 04:44										
<u>EPA 200.8</u>												
Lead	17.4	---	0.222	ug/L	1	16.7	---	104	85 - 115%	---	---	---

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

**Apex Laboratories, LLC**

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ORELAP ID: OR100062

<b>PBS Engineering and Environmental</b> 4412 S Corbett Ave Portland, OR 97239	Project: <b>Reynolds School District</b> Project Number: <b>Sweetbriar ES/23514.186</b> Project Manager: <b>James Mastanduno</b>	<b>Report ID:</b> <b>A3E1828 - 06 13 23 1349</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 23F0188 - EPA 200.8 Direct Analysis</b>						<b>Drinking Water</b>						
<b>Blank (23F0188-BLK1)</b>		Prepared: 06/06/23 13:38 Analyzed: 06/06/23 18:08										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
<b>LCS (23F0188-BS1)</b>		Prepared: 06/06/23 13:38 Analyzed: 06/06/23 18:09										
<u>EPA 200.8</u>												
Lead	14.4	---	0.201	ug/L	1	15.0	---	96	85 - 115%	---	---	---
<b>Duplicate (23F0188-DUP1)</b>		Prepared: 06/06/23 13:38 Analyzed: 06/06/23 18:12										
<u>QC Source Sample: 21820700-052CF23A (A3E1828-52)</u>												
<u>EPA 200.8</u>												
Lead	22.9	---	0.200	ug/L	1	---	22.7	---	---	0.8	20%	---
<b>Matrix Spike (23F0188-MS1)</b>		Prepared: 06/06/23 13:38 Analyzed: 06/06/23 18:14										
<u>QC Source Sample: 21820700-052CF23A (A3E1828-52)</u>												
<u>EPA 200.8</u>												
Lead	35.9	---	0.201	ug/L	1	15.0	22.7	88	70 - 130%	---	---	---

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**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	% REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch 23F0350 - EPA 200.8 Direct Analysis</b>						<b>Drinking Water</b>						
<b>Blank (23F0350-BLK1)</b>		Prepared: 06/09/23 15:38 Analyzed: 06/09/23 17:05										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
<b>LCS (23F0350-BS1)</b>		Prepared: 06/09/23 15:38 Analyzed: 06/09/23 17:06										
<u>EPA 200.8</u>												
Lead	16.1	---	0.201	ug/L	1	15.0	---	108	85 - 115%	---	---	---
<b>Duplicate (23F0350-DUP1)</b>		Prepared: 06/09/23 15:38 Analyzed: 06/09/23 17:09										
<u>QC Source Sample: 21820700-036DW23A (A3E1828-36RE2)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	0.103	---	---	***	<b>20%</b>	---
<b>Matrix Spike (23F0350-MS1)</b>		Prepared: 06/09/23 15:38 Analyzed: 06/09/23 17:10										
<u>QC Source Sample: 21820700-036DW23A (A3E1828-36RE2)</u>												
<u>EPA 200.8</u>												
Lead	15.2	---	0.201	ug/L	1	15.0	0.103	100	70 - 130%	---	---	---

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Jason Woodcock, Project Manager

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**SAMPLE PREPARATION INFORMATION**

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

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23F0151</u>							
A3E1828-01	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-03	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-05	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-06	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-07	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-08	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-09	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
A3E1828-10	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 08:00	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23F0163</u>							
A3E1828-11	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-12	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-13	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-14	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-15	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-16	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-17	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-18	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-19	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-20	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-21	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-22	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-23	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-24	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-25	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-26	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-27	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-28	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-29	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
A3E1828-30	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 09:25	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23F0185</u>							
A3E1828-31	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-32	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-33	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-34	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-35	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00

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**SAMPLE PREPARATION INFORMATION**

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

**Prep: EPA 200.8 Direct Analysis**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3E1828-36RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-37RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-38RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-39RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-40RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-41RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-42RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-43RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-44RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-45RE1	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-46	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-47	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-48	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-50	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00
A3E1828-51	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:01	10mL/10mL	10mL/10mL	1.00

**Batch: 23F0188**

A3E1828-52	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00
A3E1828-53	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00
A3E1828-54	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00
A3E1828-55	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00
A3E1828-56	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00
A3E1828-57	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00
A3E1828-58	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 13:38	10mL/10mL	10mL/10mL	1.00

**Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b><u>Batch: 23F0187</u></b>							
A3E1828-02	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:18	45mL/50mL	10mL/10mL	1.11
A3E1828-04	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:18	45mL/50mL	10mL/10mL	1.11
A3E1828-49	Drinking Water	EPA 200.8	05/26/23 00:00	06/06/23 12:18	45mL/50mL	10mL/10mL	1.11

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Jason Woodcock, Project Manager



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<b><u>PBS Engineering and Environmental</u></b>	Project: <b><u>Reynolds School District</u></b>	<b><u>Report ID:</u></b>
4412 S Corbett Ave	Project Number: <b>Sweetbriar ES/23514.186</b>	A3E1828 - 06 13 23 1349
Portland, OR 97239	Project Manager: <b>James Mastanduno</b>	

**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.

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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. 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 1/2 the Reporting Limit (RL).  
-For Blank hits falling between 1/2 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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Jason Woodcock, Project Manager





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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 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.

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Jason Woodcock, Project Manager



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**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**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<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.

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Jason Woodcock, Project Manager

ANALYTICAL REPORT

<b>PBS Engineering and Environmental</b>	<b>Project: Reynolds School District</b>	
4412 S Corbett Ave	Project Number: Sweetbriar ES/23514.186	<b>Report ID:</b>
Portland, OR 97239	Project Manager: James Mastanduno	A3E1828 - 06 13 23 1349

A3E1828

Lead in Drinking Water Testing Program		Reynolds School District	
Date Collected:	5/26/23	PBS Project:	23514.186
School Name:	Sweetbriar Elementary	Building Number:	21820700
Analysis Requested:	Lead (Pb) in drinking water		
Relinquished By:	Sweetbriar Kindergarten	Date/Time:	05/30/23 / 11:00AM
Received By:	<i>[Signature]</i> APEX LABS	Date/Time:	5/30/23 1240
Email Results to:	james.mastanduno@pbsusa.com	Turnaround Time:	10 - Day

	Fixture Number	Sample Number	Room/Location
	0101 KF	21820700-0101KF3A	Kitchen, Southeast, Sink
(K)	0102 KF	21820700-0102KF3A	Kitchen, North wall, east sink
(L)	0103 KF	21820700-0103KF3A	Kitchen, North wall, west sink
	0104 KF	21820700-0104KF3A	Kitchen, center island sink
	0105 SF	21820700-0105SF3A	Kitchen, Southeast, hand washing sink
	0106 SF	21820700-0106SF3A	Gym teacher Restroom, East wall, sink
	0107 WB	21820700-0107WB3A	Gym, Southeast corner, Water bottle fill station
	0108 SW	21820700-0108SW3A	Gym, Southeast corner, drinking fountain
	0109 FW	21820700-0109FW3A	SW Corridor, South wall, drinking fountain
	0110 DW	21820700-0110DW3A	SW Corridor, South wall, East drinking fountain
	0111 WF	21820700-0111WF3A	SW Corridor, South wall, Water bottle fill station
(S)	0112 BF	21820700-0112BF3A	SW Corridor Boys BR, West Wall, sink South
(U)	0113 BF	21820700-0113BF3A	SW Corridor Boys BR, West Wall, North Sink
(E)	0114 BF	21820700-0114BF3A	SW Corridor Girls BR, North Wall, East Sink
(W)	0115 BF	21820700-0115BF3A	SW Corridor Girls BR, North Wall, West Sink
	0116 CF	21820700-0116CF3A	Art Room 2J, North Wall, sink
	0117 NS	21820700-0117NS3A	Nurses Station Bathroom Sink
	0118 SF	21820700-0118SF3A	Main office, Staff restroom, sink
	0119 SF	21820700-0119SF3A	Main office, Kitchen, sink
	0200 WF	21820700-0200WF3A	Main office, kitchen, water bottle fill @ sink
	0201 DF	21820700-0201DF3A	South Classroom cluster, latest bathroom, sink
	0202 DW	21820700-0202DW3A	Rm 1, drinking fountain @ sink
	0203 CF	21820700-0203CF3A	Rm 1, Classroom sink
	0204 CF	21820700-0204CF3A	Rm 1, Classroom sink
	0205 DF	21820700-0205DF3A	Rm 2, Drinking Fountain @ Sink
	0206 DW	21820700-0206DW3A	South outside Rm 3, Drinking fountain @ sink
	0207 CF	21820700-0207CF3A	Outside room 3, Classroom sink
	0208 DW	21820700-0208DW3A	Outside Rm 4, Drinking Fountain at sink
	0209 CF	21820700-0209CF3A	Outside Rm 4, Classroom sink
	0210 DW	21820700-0210DW3A	Rm 5, Drinking Fountain @ sink
	0211 CF	21820700-0211CF3A	Rm 5, classroom sink
	0212 BF	21820700-0212BF3A	South Classroom cluster, East bathroom sink
	0213 CF	21820700-0213CF3A	SE Classroom cluster, West sink
	0214 DW	21820700-0214DW3A	SE Classroom cluster, Drinking fountain @ West Sink
	0215 CF	21820700-0215CF3A	SE Classroom cluster, East sink
	0216 DW	21820700-0216DW3A	SE Classroom cluster, Drinking Fountain @ East Sink
	0217 CF	21820700-0217CF3A	NE Classroom cluster, East Sink
	0218 CF	21820700-0218CF3A	NE Classroom cluster, West Sink



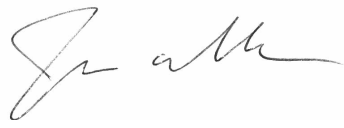
<p><b>PBS Engineering and Environmental</b>                  4412 S Corbett Ave                  Portland, OR 97239</p>	<p>Project: <b>Reynolds School District</b>                  Project Number: <b>Sweetbriar ES/23514.186</b>                  Project Manager: <b>James Mastanduno</b></p>	<p><b>Report ID:</b>                  A3E1828 - 06 13 23 1349</p>
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*A3E1828*

Lead in Drinking Water Testing Program		Reynolds School District	
<b>Date Collected:</b>	05/26/23	<b>PBS Project:</b>	23514.186
<b>School Name:</b>	Sweetbriar Elementary	<b>Building Number:</b>	21820700
<b>Analysis Requested:</b>	Lead (Pb) in drinking water		
<b>Relinquished By:</b>	Seirenda K. Bridge	<b>Date/Time:</b>	05/30/23 12:00PM
<b>Received By:</b>	<i>GW APEX LABS</i>	<b>Date/Time:</b>	5/30/23 1240
<b>Email Results to:</b>	james.mastanduno@pbsusa.com	<b>Turnaround Time:</b>	10 - Day

Fixture Number	Sample Number	Room/Location
039 DW	21820700-039DW3A	NE Classroom Cluster, drinking fountain @ West Sink
040 BF	21820700-040BF3A	North Classroom Cluster, East bathroom sink
041 DW	21820700-041DW3A	Rm 15, Drinking fountain @ sink
042 CF	21820700-042CF3A	Rm 15, Classroom sink
043 CF	21820700-043CF3A	Rm 16, Classroom sink
044 DW	21820700-044DW3A	Rm 16, Drinking fountain @ classroom sink
045 DW	21820700-045DW3A	Outside of Rm 17, Drinking fountain @ sink
046 CF	21820700-046CF3A	Outside of Rm 17, Classroom sink
047 DW	21820700-047DW3A	Outside of Rm 18, Drinking fountain @ sink
048 CF	21820700-048CF3A	Outside of Rm 18, Classroom sink
049 DW	21820700-049DW3A	Rm 19, Drinking fountain @ sink
050 CF	21820700-050CF3A	Rm 19, Classroom sink
051 BF	21820700-051BF3A	North Classroom Cluster, West Bathroom sink
052 CF	21820700-052CF3A	Counselor, North Wall, sink
053 CF	21820700-053CF3A	Rm 23, Classroom sink
054 CF	21820700-054CF3A	Rm 24, Classroom sink
055 WB	21820700-055WB3A	2nd Floor Teachers lounge, Water bottle fill @ sink
056 SF	21820700-056SF3A	2nd Floor Teachers lounge, Sink
057 SF	21820700-057SF3A	2nd Floor Teachers lounge, West bathroom, sink
058 SF	21820700-058SF3A	2nd Floor Teachers lounge, East bathroom, sink

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Jason Woodcock, Project Manager

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**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>Reynolds School District</b> Project Number: <b>Sweetbriar ES/23514.186</b> Project Manager: <b>James Mastanduno</b>	<b>Report ID:</b> A3E1828 - 06 13 23 1349
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**APEX LABS COOLER RECEIPT FORM**

Client: PBS Element WO#: A3E1828

Project/Project #: Sweetbriar Elementary 23514.186/21820700

**Delivery Info:**  
Date/time received: 5/30/23 @ 1240 By: EST

Delivered by: Apex  Client  ESS  FedEx  UPS  Radio  Morgan  SDS  Evergreen  Other

**Cooler Inspection** Date/time inspected: 5/30/23 @ 1405 By: EST

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>18.3</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>NA</u>						
Condition (In/Out):	<u>OUT</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking waters

Green dots applied to out of temperature samples? Yes/No Yes

Out of temperature samples form initiated? Yes/No No

**Sample Inspection:** Date/time inspected: 5/30/23 @ 16:38 By: JAM

All samples intact? Yes  No  Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: \_\_\_\_\_

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: JAM Witness: DJS Cooler Inspected by: JAM

Form Y-003 R-00

Apex Laboratories

Jason Woodcock, Project Manager

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