



January 10, 2023

Kevin Montague  
Tigard-Tualatin School District  
6960 SW Sandburg Street  
Tigard, OR 97233

Via email: shawn@srcandp.com  
Shawn Christensen, SR Consulting + Projects, LLCus

Regarding: Lead in Drinking Water Sampling  
Metzger Elementary School  
10350 SW Lincoln Street  
Tigard, Oregon 97223  
PBS Project 27482.000 Phase 0008

Dear Mr. Montague:

On December 6, 2022, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at Metzger Elementary School located at 10350 SW Lincoln Street in Tigard, Oregon. The testing was requested by Tigard-Tualatin School District to meet requirements from the Oregon Department of Education (ODE) and Oregon Health Authority (OHA) to conduct water 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* required school districts to conduct initial testing for lead from each qualifying tap prior to June 30, 2020. This deadline was extended due to the COVID-19 pandemic.

The sampling methodology followed the protocol described in Section 4 of the Environmental Protection Agency (EPA) document *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018* (3Ts) and guidelines established by OHA and ODE. Following these guidelines, PBS assigned identification numbers and collected first draw samples from each test location. First draw samples consisted of the first 250 milliliters (mL) of water drawn from a fixture after the water has been sitting stagnant for 8 to 18 hours. The 3Ts' sampling protocol is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified. Because 250 mL samples are relatively small and thus undiluted, the action level set by the EPA for lead is 15 parts per billion (ppb).

The water sampling process was supervised by an Oregon Health Authority certified lead risk assessor. The samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis.

#### **FINDINGS**

First draw samples were collected from 74 fixtures and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis using EPA Method 200.8 ICPMS. The following table lists the results of the analysis.

**Table 1: Main Building**

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
22420600-001KF22A	Kitchen; Dishwashing Sink	Kitchen Faucet	First	1.28
22420600-002KF22A	Kitchen; Left Prep Sink	Kitchen Faucet	First	1.30
22420600-003KF22A	Kitchen; Right Prep Sink	Kitchen Faucet	First	4.28
22420600-009DW22A	Hallway by Gym; Left Fountain	Drinking Fountain	First	ND
22420600-010DW22A	Hallway by Gym; Right Fountain	Drinking Fountain	First	ND
22420600-011WB22A	Hallway by Gym	Water Bottle Filler	First	ND
22420600-012SF22A	Gym Office	Staff Faucet	First	3.90
22420600-013SF22A	Staff Lounge	Staff Faucet	First	0.668
22420600-016CF22A	Room 100	Classroom Faucet	First	1.51
22420600-017DW22A	Room 100	Drinking Fountain	First	2.70
22420600-019CF22A	Room 101	Classroom Faucet	First	1.69
22420600-020DW22A	Room 101	Drinking Fountain	First	3.44
22420600-021CF22A	Room 102	Classroom Faucet	First	1.28
22420600-022DW22A	Room 102	Drinking Fountain	First	2.99
22420600-023CF22A	Room 103	Classroom Faucet	First	2.60
22420600-024DW22A	Room 103	Drinking Fountain	First	2.55
22420600-025CF22A	Room 104	Classroom Faucet	First	2.43
22420600-026DW22A	Room 104	Drinking Fountain	First	2.67
22420600-038CF22A	Room 105	Classroom Faucet	First	2.13
22420600-039DW22A	Room 105	Drinking Fountain	First	3.00
22420600-040CF22A	Room 106	Classroom Faucet	First	2.51
22420600-041DW22A	Room 106	Drinking Fountain	First	1.92
22420600-042CF22A	Room 107	Classroom Faucet	First	1.50
22420600-043DW22A	Room 107	Drinking Fountain	First	3.54
22420600-044CF22A	Room 108	Classroom Faucet	First	1.97
22420600-045DW22A	Room 108	Drinking Fountain	First	2.50
22420600-046CF22A	Room 109	Classroom Faucet	First	1.77
22420600-047DW22A	Room 109	Drinking Fountain	First	1.79
22420600-048CF22A	Room 110	Classroom Faucet	First	1.62
22420600-049DW22A	Room 110	Drinking Fountain	First	2.79
22420600-050CF22A	Room 111	Classroom Faucet	First	2.11
22420600-051DW22A	Room 111	Drinking Fountain	First	3.79
22420600-052CF22A	Room 112	Classroom Faucet	First	0.696
22420600-053DW22A	Room 112	Drinking Fountain	First	1.14
22420600-054CF22A	Room 113	Classroom Faucet	First	0.524
22420600-055DW22A	Room 113	Drinking Fountain	First	1.51
<b>22420600-056SF22A</b>	<b>Library Workroom</b>	<b>Staff Faucet</b>	<b>First</b>	<b>37.2</b>
22420600-058NS22A	Health Room	Nurse's Sink	First	1.11
22420600-059CF22A	Music	Classroom Faucet	First	1.77

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
22420600-060DW22A	Music	Drinking Fountain	First	3.83
22420600-061CF22A	Room 200	Classroom Faucet	First	2.02
22420600-062DW22A	Room 200	Drinking Fountain	First	2.84
22420600-063CF22A	Room 201	Classroom Faucet	First	1.44
22420600-064DW22A	Room 201	Drinking Fountain	First	2.24
22420600-065CF22A	Room 202	Classroom Faucet	First	1.54
22420600-066DW22A	Room 202	Drinking Fountain	First	2.87
22420600-069DW22A	Pod for Rooms 200-204; Left Fountain	Drinking Fountain	First	2.01
22420600-070DW22A	Pod for Rooms 200-204; Right Fountain	Drinking Fountain	First	1.80
22420600-071CF22A	Room 203	Classroom Faucet	First	1.53
22420600-072DW22A	Room 203	Drinking Fountain	First	3.21
22420600-073CF22A	Room 204	Classroom Faucet	First	1.95
22420600-074DW22A	Room 204	Drinking Fountain	First	3.16
22420600-075CF22A	Room 205	Classroom Faucet	First	1.84
22420600-076DW22A	Room 205	Drinking Fountain	First	1.07
22420600-077CF22A	Room 206	Classroom Faucet	First	1.75
22420600-078DW22A	Room 206	Drinking Fountain	First	0.752
22420600-079CF22A	Room 207	Classroom Faucet	First	2.14
22420600-080DW22A	Room 207	Drinking Fountain	First	1.55
22420600-081CF22A	Room 208	Classroom Faucet	First	2.31
22420600-082DW22A	Room 208	Drinking Fountain	First	1.47
22420600-087CF22A	Room 209	Classroom Faucet	First	1.46
22420600-088DW22A	Room 209	Drinking Fountain	First	2.37
22420600-089CF22A	Room 210	Classroom Faucet	First	2.13
22420600-090DW22A	Room 210	Drinking Fountain	First	3.72
22420600-091CF22A	Room 211	Classroom Faucet	First	1.90
22420600-092DW22A	Room 211	Drinking Fountain	First	0.794
22420600-093CF22A	Room 212	Classroom Faucet	First	1.78
22420600-094DW22A	Room 212	Drinking Fountain	First	1.36
22420600-095CF22A	Room 213	Classroom Faucet	First	2.26
22420600-096DW22A	Room 213	Drinking Fountain	First	1.79
22420600-101DW22A	Pod for Rooms 209-213; Left Fountain	Drinking Fountain	First	1.95
22420600-102DW22A	Pod for Rooms 209-213; Right Fountain	Drinking Fountain	First	1.64
22420601-103CF22A	Portable	Classroom Faucet	First	3.17
22420600-104SF22A	Staff Workroom	Staff Faucet	First	3.03

ND = no lead detected

ppb = parts per billion

Samples above the action level of 15 ppb are shown in **bold**

Elevated concentrations of lead were found in one fixture located in the library workroom. Access to the elevated fixture should be restricted in accordance with OHA and EPA guidelines. PBS recommends taking corrective action per recommendations in EPA's 3Ts Module 6. The EPA protocol recommends follow-up flush sampling at all locations where first-draw samples contain lead concentrations greater than 15 parts per billion (ppb). Follow-up flush sampling is recommended prior to placing fixtures into service.

Flush samples will be collected after the water from the fixture was allowed to run for 30 seconds with a steady stream of the approximate diameter of a pencil. The purpose of flush sampling is to attempt to pinpoint if lead is getting into the water from the fixture or from the building's interior plumbing. PBS is available to assist with further investigation and corrective actions upon request.

Please refer to the attached laboratory analytical report for additional details. The laboratory analytical results are reported in micrograms per liter ( $\mu\text{g/L}$ ), a unit of measure that is equivalent to ppb.

### **REIMBURSEMENT**

The Tigard-Tualatin School District is 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 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.

### **ONGOING TESTING**

According to OAR 333-061-0400, school districts are required to complete ongoing 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% lead by weight and the piping feeding the tap is a material other than copper or was installed after January 4, 2014; the solder and flux meets the leadfree standard of no more than 0.2% lead; and was tested during initial testing and results were less than 1 ppb lead.

Please feel free to contact me at 503.417.7603 or rich@pbsusa.com with any questions or comments.

Sincerely,

Rich Dufresne  
Senior Project Manager  
PBS Engineering and Environmental Inc.

Attachments:   Laboratory Results  
                    Chain-of-Custody Form  
                    Lead Risk Assessor Certification

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

Tuesday, December 20, 2022

Rich Dufresne  
PBS Engineering and Environmental  
4412 S Corbett Ave  
Portland, OR 97239

RE: A2L0277 - Tualatin SD - Metzger/27482.000

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 A2L0277, which was received by the laboratory on 12/6/2022 at 12:01:00PM.

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)

Cooler#1	17.6 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

Jason Woodcock, Project Manager

*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**PBS Engineering and Environmental**4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22420600-001KF22A	A2L0277-01	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-002KF22A	A2L0277-02	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-003KF22A	A2L0277-03	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-009DW22A	A2L0277-04	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-010DW22A	A2L0277-05	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-011WB22A	A2L0277-06	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-012SF22A	A2L0277-07	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-013SF22A	A2L0277-08	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-016CF22A	A2L0277-09	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-017DW22A	A2L0277-10	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-019CF22A	A2L0277-11	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-020DW22A	A2L0277-12	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-021CF22A	A2L0277-13	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-022DW22A	A2L0277-14	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-023CF22A	A2L0277-15	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-024DW22A	A2L0277-16	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-025CF22A	A2L0277-17	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-026DW22A	A2L0277-18	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-038CF22A	A2L0277-19	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-039DW22A	A2L0277-20	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-040CF22A	A2L0277-21	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-041DW22A	A2L0277-22	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-042CF22A	A2L0277-23	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-043DW22A	A2L0277-24	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-044CF22A	A2L0277-25	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-045DW22A	A2L0277-26	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-046CF22A	A2L0277-27	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-047DW22A	A2L0277-28	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-048CF22A	A2L0277-29	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-049DW22A	A2L0277-30	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-050CF22A	A2L0277-31	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-051DW22A	A2L0277-32	Drinking Water	12/06/22 00:00	12/06/22 12:01

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Jason Woodcock, Project Manager

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22420600-052CF22A	A2L0277-33	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-053DW22A	A2L0277-34	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-054CF22A	A2L0277-35	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-055DW22A	A2L0277-36	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-056SF22A	A2L0277-37	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-058NS22A	A2L0277-38	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-059CF22A	A2L0277-39	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-060DW22A	A2L0277-40	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-061CF22A	A2L0277-41	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-062DW22A	A2L0277-42	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-063CF22A	A2L0277-43	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-064DW22A	A2L0277-44	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-065CF22A	A2L0277-45	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-066DW22A	A2L0277-46	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-069DW22A	A2L0277-47	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-070DW22A	A2L0277-48	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-071CF22A	A2L0277-49	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-072DW22A	A2L0277-50	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-073CF22A	A2L0277-51	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-074DW22A	A2L0277-52	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-075CF22A	A2L0277-53	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-076DW22A	A2L0277-54	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-077CF22A	A2L0277-55	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-078DW22A	A2L0277-56	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-079CF22A	A2L0277-57	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-080DW22A	A2L0277-58	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-081CF22A	A2L0277-59	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-082DW22A	A2L0277-60	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-087CF22A	A2L0277-61	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-088DW22A	A2L0277-62	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-089CF22A	A2L0277-63	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-090DW22A	A2L0277-64	Drinking Water	12/06/22 00:00	12/06/22 12:01

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Jason Woodcock, Project Manager



## ANALYTICAL REPORT

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503-718-2323  
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**PBS Engineering and Environmental**

4412 S Corbett Ave  
Portland, OR 97239

Project: **Tualatin SD**

Project Number: **Metzger/27482.000**

Project Manager: **Rich Dufresne**

**Report ID:**

**A2L0277 - 12 20 22 1239**

### ANALYTICAL REPORT FOR SAMPLES

#### SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22420600-091CF22A	A2L0277-65	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-092DW22A	A2L0277-66	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-093CF22A	A2L0277-67	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-094DW22A	A2L0277-68	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-095CF22A	A2L0277-69	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-096DW22A	A2L0277-70	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-101DW22A	A2L0277-71	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-102DW22A	A2L0277-72	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420601-103CF22A	A2L0277-73	Drinking Water	12/06/22 00:00	12/06/22 12:01
22420600-104SF22A	A2L0277-74	Drinking Water	12/06/22 00:00	12/06/22 12:01

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Jason Woodcock, Project Manager



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Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne****Report ID:**  
**A2L0277 - 12 20 22 1239****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>22420600-001KF22A (A2L0277-01) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	1.28	---	0.200	ug/L	1	12/09/22 18:05	EPA 200.8	
<b>22420600-002KF22A (A2L0277-02) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	1.30	---	0.200	ug/L	1	12/09/22 18:09	EPA 200.8	
<b>22420600-003KF22A (A2L0277-03) Matrix: Drinking Water</b>								
Batch: 22L0470								
Lead	4.28	---	0.222	ug/L	1	12/14/22 15:47	EPA 200.8	DW-D
<b>22420600-009DW22A (A2L0277-04) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	ND	---	0.200	ug/L	1	12/09/22 18:13	EPA 200.8	
<b>22420600-010DW22A (A2L0277-05) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	ND	---	0.200	ug/L	1	12/09/22 18:16	EPA 200.8	
<b>22420600-011WB22A (A2L0277-06) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	ND	---	0.200	ug/L	1	12/09/22 18:19	EPA 200.8	
<b>22420600-012SF22A (A2L0277-07) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	3.90	---	0.200	ug/L	1	12/09/22 18:23	EPA 200.8	
<b>22420600-013SF22A (A2L0277-08) Matrix: Drinking Water</b>								
Batch: 22L0470								
Lead	0.668	---	0.222	ug/L	1	12/14/22 15:53	EPA 200.8	DW-D
<b>22420600-016CF22A (A2L0277-09) Matrix: Drinking Water</b>								
Batch: 22L0321								
Lead	1.51	---	0.200	ug/L	1	12/09/22 18:27	EPA 200.8	
<b>22420600-017DW22A (A2L0277-10) Matrix: Drinking Water</b>								

Apex Laboratories

Jason Woodcock, Project Manager

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4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne****Report ID:**  
**A2L0277 - 12 20 22 1239****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
22420600-017DW22A (A2L0277-10)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.70	---	0.200	ug/L	1	12/09/22 18:31	EPA 200.8	
22420600-019CF22A (A2L0277-11)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	1.69	---	0.200	ug/L	1	12/09/22 18:43	EPA 200.8	
22420600-020DW22A (A2L0277-12)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	3.44	---	0.200	ug/L	1	12/09/22 18:47	EPA 200.8	
22420600-021CF22A (A2L0277-13)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	1.28	---	0.200	ug/L	1	12/09/22 18:51	EPA 200.8	
22420600-022DW22A (A2L0277-14)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.99	---	0.200	ug/L	1	12/09/22 18:55	EPA 200.8	
22420600-023CF22A (A2L0277-15)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.60	---	0.200	ug/L	1	12/09/22 18:59	EPA 200.8	
22420600-024DW22A (A2L0277-16)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.55	---	0.200	ug/L	1	12/09/22 19:03	EPA 200.8	
22420600-025CF22A (A2L0277-17)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.43	---	0.200	ug/L	1	12/09/22 19:07	EPA 200.8	
22420600-026DW22A (A2L0277-18)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.67	---	0.200	ug/L	1	12/09/22 19:11	EPA 200.8	
22420600-038CF22A (A2L0277-19)				Matrix: Drinking Water				

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**PBS Engineering and Environmental**  
4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne****Report ID:**  
**A2L0277 - 12 20 22 1239****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
22420600-038CF22A (A2L0277-19)				Matrix: Drinking Water				
Batch: 22L0321								
Lead	2.13	---	0.200	ug/L	1	12/09/22 19:15	EPA 200.8	
22420600-039DW22A (A2L0277-20)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	3.00	---	0.200	ug/L	1	12/09/22 19:39	EPA 200.8	
22420600-040CF22A (A2L0277-21)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	2.51	---	0.200	ug/L	1	12/09/22 19:51	EPA 200.8	
22420600-041DW22A (A2L0277-22)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.92	---	0.200	ug/L	1	12/09/22 19:55	EPA 200.8	
22420600-042CF22A (A2L0277-23)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.50	---	0.200	ug/L	1	12/09/22 19:59	EPA 200.8	
22420600-043DW22A (A2L0277-24)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	3.54	---	0.200	ug/L	1	12/09/22 20:03	EPA 200.8	
22420600-044CF22A (A2L0277-25)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.97	---	0.200	ug/L	1	12/09/22 20:07	EPA 200.8	
22420600-045DW22A (A2L0277-26)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	2.50	---	0.200	ug/L	1	12/09/22 20:19	EPA 200.8	
22420600-046CF22A (A2L0277-27)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.77	---	0.200	ug/L	1	12/09/22 20:23	EPA 200.8	
22420600-047DW22A (A2L0277-28)				Matrix: Drinking Water				

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503-718-2323  
ORELAP ID: OR100062**PBS Engineering and Environmental**  
4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne****Report ID:**  
**A2L0277 - 12 20 22 1239****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
22420600-047DW22A (A2L0277-28)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.79	---	0.200	ug/L	1	12/09/22 20:28	EPA 200.8	
22420600-048CF22A (A2L0277-29)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.62	---	0.200	ug/L	1	12/09/22 20:32	EPA 200.8	
22420600-049DW22A (A2L0277-30)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	2.79	---	0.200	ug/L	1	12/09/22 20:36	EPA 200.8	
22420600-050CF22A (A2L0277-31)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	2.11	---	0.200	ug/L	1	12/09/22 20:40	EPA 200.8	
22420600-051DW22A (A2L0277-32)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	3.79	---	0.200	ug/L	1	12/09/22 20:44	EPA 200.8	
22420600-052CF22A (A2L0277-33)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	0.696	---	0.200	ug/L	1	12/09/22 20:48	EPA 200.8	
22420600-053DW22A (A2L0277-34)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.14	---	0.200	ug/L	1	12/09/22 20:51	EPA 200.8	
22420600-054CF22A (A2L0277-35)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	0.524	---	0.200	ug/L	1	12/09/22 20:55	EPA 200.8	
22420600-055DW22A (A2L0277-36)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.51	---	0.200	ug/L	1	12/09/22 21:07	EPA 200.8	
22420600-056SF22A (A2L0277-37)				Matrix: Drinking Water				

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**PBS Engineering and Environmental**  
4412 S Corbett Ave  
Portland, OR 97239

Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne**

**Report ID:**  
**A2L0277 - 12 20 22 1239**

## 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
22420600-056SF22A (A2L0277-37)				Matrix: Drinking Water				
Batch: 22L0470								
Lead	37.2	---	0.222	ug/L	1	12/14/22 15:58	EPA 200.8	DW-D
22420600-058NS22A (A2L0277-38)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.11	---	0.200	ug/L	1	12/09/22 21:11	EPA 200.8	
22420600-059CF22A (A2L0277-39)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	1.77	---	0.200	ug/L	1	12/09/22 21:15	EPA 200.8	
22420600-060DW22A (A2L0277-40)				Matrix: Drinking Water				
Batch: 22L0322								
Lead	3.83	---	0.200	ug/L	1	12/09/22 21:19	EPA 200.8	
22420600-061CF22A (A2L0277-41)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	2.02	---	0.200	ug/L	1	12/09/22 15:43	EPA 200.8	
22420600-062DW22A (A2L0277-42)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	2.84	---	0.200	ug/L	1	12/09/22 15:56	EPA 200.8	
22420600-063CF22A (A2L0277-43)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.44	---	0.200	ug/L	1	12/09/22 16:00	EPA 200.8	
22420600-064DW22A (A2L0277-44)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	2.24	---	0.200	ug/L	1	12/09/22 16:04	EPA 200.8	
22420600-065CF22A (A2L0277-45)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.54	---	0.200	ug/L	1	12/09/22 16:08	EPA 200.8	
22420600-066DW22A (A2L0277-46)				Matrix: Drinking Water				

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Portland, OR 97239Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239**

## 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
22420600-066DW22A (A2L0277-46)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	2.87	---	0.200	ug/L	1	12/09/22 16:12	EPA 200.8	
22420600-069DW22A (A2L0277-47)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	2.01	---	0.200	ug/L	1	12/09/22 16:24	EPA 200.8	
22420600-070DW22A (A2L0277-48)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.80	---	0.200	ug/L	1	12/09/22 16:28	EPA 200.8	
22420600-071CF22A (A2L0277-49)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.53	---	0.200	ug/L	1	12/09/22 16:32	EPA 200.8	
22420600-072DW22A (A2L0277-50)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	3.21	---	0.200	ug/L	1	12/09/22 16:36	EPA 200.8	
22420600-073CF22A (A2L0277-51)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.95	---	0.200	ug/L	1	12/09/22 16:40	EPA 200.8	
22420600-074DW22A (A2L0277-52)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	3.16	---	0.200	ug/L	1	12/09/22 16:44	EPA 200.8	
22420600-075CF22A (A2L0277-53)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.84	---	0.200	ug/L	1	12/09/22 16:48	EPA 200.8	
22420600-076DW22A (A2L0277-54)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.07	---	0.200	ug/L	1	12/09/22 16:52	EPA 200.8	
22420600-077CF22A (A2L0277-55)				Matrix: Drinking Water				

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Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne**

**Report ID:**  
**A2L0277 - 12 20 22 1239**

## 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
22420600-077CF22A (A2L0277-55)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	1.75	---	0.200	ug/L	1	12/09/22 16:56	EPA 200.8	
22420600-078DW22A (A2L0277-56)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	0.752	---	0.200	ug/L	1	12/09/22 17:00	EPA 200.8	
22420600-079CF22A (A2L0277-57)				Matrix: Drinking Water				
Batch: 22L0343								
Lead	2.14	---	0.200	ug/L	1	12/09/22 17:11	EPA 200.8	
22420600-080DW22A (A2L0277-58)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.55	---	0.200	ug/L	1	12/12/22 15:00	EPA 200.8	
22420600-081CF22A (A2L0277-59)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	2.31	---	0.200	ug/L	1	12/12/22 15:04	EPA 200.8	
22420600-082DW22A (A2L0277-60)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.47	---	0.200	ug/L	1	12/12/22 15:08	EPA 200.8	
22420600-087CF22A (A2L0277-61)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.46	---	0.200	ug/L	1	12/12/22 15:12	EPA 200.8	
22420600-088DW22A (A2L0277-62)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	2.37	---	0.200	ug/L	1	12/12/22 15:24	EPA 200.8	
22420600-089CF22A (A2L0277-63)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	2.13	---	0.200	ug/L	1	12/12/22 15:28	EPA 200.8	
22420600-090DW22A (A2L0277-64)				Matrix: Drinking Water				

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Portland, OR 97239Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne****Report ID:**  
**A2L0277 - 12 20 22 1239****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
22420600-090DW22A (A2L0277-64)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	3.72	---	0.200	ug/L	1	12/12/22 15:32	EPA 200.8	
22420600-091CF22A (A2L0277-65)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.90	---	0.200	ug/L	1	12/12/22 15:36	EPA 200.8	
22420600-092DW22A (A2L0277-66)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	0.794	---	0.200	ug/L	1	12/12/22 15:41	EPA 200.8	
22420600-093CF22A (A2L0277-67)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.78	---	0.200	ug/L	1	12/12/22 15:44	EPA 200.8	
22420600-094DW22A (A2L0277-68)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.36	---	0.200	ug/L	1	12/12/22 15:48	EPA 200.8	
22420600-095CF22A (A2L0277-69)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	2.26	---	0.200	ug/L	1	12/12/22 15:52	EPA 200.8	
22420600-096DW22A (A2L0277-70)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.79	---	0.200	ug/L	1	12/12/22 15:56	EPA 200.8	
22420600-101DW22A (A2L0277-71)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.95	---	0.200	ug/L	1	12/12/22 16:00	EPA 200.8	
22420600-102DW22A (A2L0277-72)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	1.64	---	0.200	ug/L	1	12/12/22 16:12	EPA 200.8	
22420601-103CF22A (A2L0277-73)				Matrix: Drinking Water				

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4412 S Corbett Ave  
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Project: Tualatin SD

Project Number: Metzger/27482.000

Project Manager: Rich Dufresne

Report ID:

A2L0277 - 12 20 22 1239

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
22420601-103CF22A (A2L0277-73)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	3.17	---	0.200	ug/L	1	12/12/22 16:16	EPA 200.8	
22420600-104SF22A (A2L0277-74)				Matrix: Drinking Water				
Batch: 22L0379								
Lead	3.03	---	0.200	ug/L	1	12/12/22 16:20	EPA 200.8	

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## ANALYTICAL REPORT

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4412 S Corbett Ave  
Portland, OR 97239Project: Tualatin SD  
Project Number: Metzger/27482.000  
Project Manager: Rich DufresneReport ID:  
A2L0277 - 12 20 22 1239

## 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
Batch 22L0321 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0321-BLK1)		Prepared: 12/09/22 08:10		Analyzed: 12/09/22 17:30								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0321-BS1)		Prepared: 12/09/22 08:10		Analyzed: 12/09/22 17:33								
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	---	108	85 - 115%	---	---	
Matrix Spike (22L0321-MS2)		Prepared: 12/09/22 08:10		Analyzed: 12/09/22 19:19								
<u>QC Source Sample: 22420600-038CF22A (A2L0277-19)</u>												
<u>EPA 200.8</u>												
Lead	18.0	---	0.201	ug/L	1	15.0	2.13	106	70 - 130%	---	---	
Batch 22L0322 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0322-BLK1)		Prepared: 12/09/22 08:13		Analyzed: 12/09/22 19:31								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0322-BS1)		Prepared: 12/09/22 08:13		Analyzed: 12/09/22 19:35								
<u>EPA 200.8</u>												
Lead	16.0	---	0.201	ug/L	1	15.0	---	107	85 - 115%	---	---	
Duplicate (22L0322-DUP1)		Prepared: 12/09/22 08:13		Analyzed: 12/09/22 19:43								
<u>QC Source Sample: 22420600-039DW22A (A2L0277-20)</u>												
<u>EPA 200.8</u>												
Lead	3.03	---	0.200	ug/L	1	---	3.00	---	---	1	20%	
Matrix Spike (22L0322-MS1)		Prepared: 12/09/22 08:13		Analyzed: 12/09/22 19:47								
<u>QC Source Sample: 22420600-039DW22A (A2L0277-20)</u>												
<u>EPA 200.8</u>												
Lead	19.0	---	0.201	ug/L	1	15.0	3.00	107	70 - 130%	---	---	
Matrix Spike (22L0322-MS2)		Prepared: 12/09/22 08:13		Analyzed: 12/09/22 21:23								
<u>QC Source Sample: 22420600-060DW22A (A2L0277-40)</u>												

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

**PBS Engineering and Environmental**4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239**

## 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
Batch 22L0322 - EPA 200.8 Direct Analysis							Drinking Water					
Matrix Spike (22L0322-MS2)		Prepared: 12/09/22 08:13   Analyzed: 12/09/22 21:23										
QC Source Sample: 22420600-060DW22A (A2L0277-40)												
EPA 200.8												
Lead	19.7	---	0.201	ug/L	1	15.0	3.83	106	70 - 130%	---	---	

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## ANALYTICAL REPORT

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062PBS Engineering and Environmental  
4412 S Corbett Ave  
Portland, OR 97239Project: Tualatin SD  
Project Number: Metzger/27482.000  
Project Manager: Rich DufresneReport ID:  
A2L0277 - 12 20 22 1239

## 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
Batch 22L0343 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0343-BLK1)		Prepared: 12/09/22 10:32		Analyzed: 12/09/22 15:36								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0343-BS1)		Prepared: 12/09/22 10:32		Analyzed: 12/09/22 15:39								
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	---	102	85 - 115%	---	---	
Duplicate (22L0343-DUP1)		Prepared: 12/09/22 10:32		Analyzed: 12/09/22 15:47								
<u>QC Source Sample: 22420600-061CF22A (A2L0277-41)</u>												
<u>EPA 200.8</u>												
Lead	2.04	---	0.200	ug/L	1	---	2.02	---	---	0.8	20%	
Matrix Spike (22L0343-MS1)		Prepared: 12/09/22 10:32		Analyzed: 12/09/22 15:51								
<u>QC Source Sample: 22420600-061CF22A (A2L0277-41)</u>												
<u>EPA 200.8</u>												
Lead	17.6	---	0.201	ug/L	1	15.0	2.02	104	70 - 130%	---	---	

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**PBS Engineering and Environmental**  
4412 S Corbett Ave  
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Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne**

**Report ID:**  
**A2L0277 - 12 20 22 1239**

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
Batch 22L0379 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0379-BLK1)		Prepared: 12/12/22 08:23		Analyzed: 12/12/22 14:39								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0379-BS1)		Prepared: 12/12/22 08:23		Analyzed: 12/12/22 14:42								
EPA 200.8												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	

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**Report ID:**  
**A2L0277 - 12 20 22 1239**

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
Batch 22L0470 - EPA 3015A							Drinking Water					
Blank (22L0470-BLK1)		Prepared: 12/13/22 14:32   Analyzed: 12/14/22 14:29										
EPA 200.8												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	
LCS (22L0470-BS1)		Prepared: 12/13/22 14:32   Analyzed: 12/14/22 14:34										
EPA 200.8												
Lead	16.7	---	0.222	ug/L	1	16.7	---	100	85 - 115%	---	---	

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Portland, OR 97239**Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239****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
<b><u>Batch: 22L0321</u></b>							
A2L0277-01	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-02	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-04	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-05	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-06	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-07	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-09	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-10	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-11	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-12	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-13	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-14	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-15	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-16	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-17	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-18	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
A2L0277-19	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:10	10mL/10mL	10mL/10mL	1.00
<b><u>Batch: 22L0322</u></b>							
A2L0277-20	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-21	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-22	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-23	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-24	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-25	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-26	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-27	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-28	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-29	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-30	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-31	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-32	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-33	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-34	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-35	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-36	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-38	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00

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503-718-2323

ORELAP ID: OR100062

**PBS Engineering and Environmental**4412 S Corbett Ave  
Portland, OR 97239Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239****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
A2L0277-39	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
A2L0277-40	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 08:13	10mL/10mL	10mL/10mL	1.00
<b><u>Batch: 22L0343</u></b>							
A2L0277-41	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-42	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-43	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-44	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-45	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-46	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-47	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-48	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-49	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-50	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-51	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-52	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-53	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-54	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-55	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-56	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
A2L0277-57	Drinking Water	EPA 200.8	12/06/22 00:00	12/09/22 10:32	10mL/10mL	10mL/10mL	1.00
<b><u>Batch: 22L0379</u></b>							
A2L0277-58	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-59	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-60	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-61	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-62	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-63	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-64	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-65	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-66	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-67	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-68	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-69	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-70	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-71	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-72	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00

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ORELAP ID: OR100062****PBS Engineering and Environmental****4412 S Corbett Ave  
Portland, OR 97239**Project: **Tualatin SD**Project Number: **Metzger/27482.000**Project Manager: **Rich Dufresne****Report ID:****A2L0277 - 12 20 22 1239****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
A2L0277-73	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	10mL/10mL	10mL/10mL	1.00
A2L0277-74	Drinking Water	EPA 200.8	12/06/22 00:00	12/12/22 08:23	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: 22L0470</u></b>							
A2L0277-03	Drinking Water	EPA 200.8	12/06/22 00:00	12/13/22 14:32	45mL/50mL	10mL/10mL	1.11
A2L0277-08	Drinking Water	EPA 200.8	12/06/22 00:00	12/13/22 14:32	45mL/50mL	10mL/10mL	1.11
A2L0277-37	Drinking Water	EPA 200.8	12/06/22 00:00	12/13/22 14:32	45mL/50mL	10mL/10mL	1.11

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Project: Tualatin SD

Project Number: Metzger/27482.000

Project Manager: Rich Dufresne

Report ID:

A2L0277 - 12 20 22 1239

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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**Report ID:**  
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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 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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## ANALYTICAL REPORT

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**PBS Engineering and Environmental**

4412 S Corbett Ave  
Portland, OR 97239

Project: **Tualatin SD**

Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne**

**Report ID:**  
**A2L0277 - 12 20 22 1239**

### 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

Jason Woodcock, Project Manager

*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

**PBS Engineering and Environmental**  
4412 S Corbett Ave  
Portland, OR 97239

Project: **Tualatin SD**  
Project Number: **Metzger/27482.000**  
Project Manager: **Rich Dufresne**

**Report ID:**  
**A2L0277 - 12 20 22 1239**

### 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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A2L0277

## LEAD IN DRINKING WATER CHAIN OF CUSTODY

Project Name: Tualatin SD - Metzger Project No: 27482.000 Phase: 0001 Task:

Samples submitted undamaged to lab by: Name/Sign: Eleanor Dick (Inspector) Date: 12/6/22 Time: 12:00

Samples received by lab undamaged: Name/Sign: Andy Mariposa (Lab) Date: 12/06/22 Time: 12:01

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

Send Results to: Rich Dufresne, Ellie Dick

SAMPLE #	DATE	BUILDING	ROOM	DESCRIPTION
22420600-001KF22A	12.6.22	MAIN	KITCH	DISH SINK
22420600-002KF22A			KITCH	PREP SINK LEFT
22420600-003KF22A			KITCH	PREP SINK RIGHT
22420600-009DW22A			HALL BY GYM	LEFT DRINK FNT.
22420600-010DW22A			HALL BY GYM	RIGHT DRINK FNT.
22420600-011WB22A			HALL BY GYM	WATER FILL
22420600-012SF22A			GYM OFF	
22420600-013SF22A			STAFF LOUNGE	
22420600-016CF22A			Rm 100	
22420600-017DW22A			Rm 100	
22420600-019CF22A			Rm 101	
22420600-020DW22A			Rm 101	
22420600-021CF22A			Rm 102	
22420600-022DW22A			Rm 102	
22420600-023CF22A			Rm 103	
22420600-024DW22A			Rm 103	
22420600-025CF22A			Rm 104	
22420600-026DW22A			Rm 104	
22420600-038CF22A			Rm 105	
22420600-039DW22A			Rm 105	
22420600-040CF22A			Rm 106	
22420600-041DW22A			Rm 106	
22420600-042CF22A			Rm 107	
22420600-043DW22A			Rm 107	
22420600-044CF22A			Rm 108	

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**LEAD IN DRINKING WATER CHAIN OF CUSTODY**

A2L0277

Project Name **Tualatin SD - Metzger** Project No: **27482.000** Phase: **0001** Task:

Samples **submitted** undamaged to lab by: Name/Sign: **Eleanor D. [Signature]** Date: **12/16/22** Time: **12:00**  
(Inspector)

Samples **received** by lab undamaged: Name/Sign: **Andy Mariposa [Signature]** Date: **12/06/22** Time: **12:01**  
(Lab)

Lab **APEX**  
(specify)

Turnaround time (check one): ☐ 5 days ☒ 10 days

Send Results to: **Rich Dufresne, Ellie Dick**

SAMPLE #	DATE	BUILDING	ROOM	DESCRIPTION
22420600-045DW22A	12.6.22	MAIN	Rm 108	
22420600-046CF22A			Rm 109	
22420600-047DW22A			Rm 109	
22420600-048CF22A			Rm 110	
22420600-049DW22A			Rm 110	
22420600-050CF22A			Rm 111	
22420600-051DW22A			Rm 111	
22420600-052CF22A			Rm 112	
22420600-053DW22A			Rm 112	
22420600-054CF22A			Rm 113	
22420600-055DW22A			Rm 113	
22420600-056SF22A			LIB	WORK ROOM
22420600-058NS22A			HEALTH	
22420600-059CF22A			MUS	
22420600-060PW22A			MUS	
22420600-061CF22A			Rm 200	
22420600-062DW22A			Rm 200	
22420600-063CF22A			Rm 201	
22420600-064DW22A			Rm 201	
22420600-065CF22A			Rm 202	
22420600-066DW22A			Rm 202	
22420600-069PW22A			POD BV BOYS ER	Left fountain
22420600-070DW22A			" ↓ "	Right fountain
22420600-071CF22A			Rm 203	
22420600-072DW22A			Rm 203	





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**LEAD IN DRINKING WATER CHAIN OF CUSTODY**

Project Name Tualatin SD - Metzger Project No: 27482.000 Phase: 0001 Task: \_\_\_\_\_  
Samples submitted undamaged to lab by: Name/Sign: ELENA D. / [Signature] Date: 12/6/22 Time: 12:00  
(Inspector)  
Samples received by lab undamaged: Name/Sign: Andy Mariposa / [Signature] Date: 12/06/22 Time: 12:01  
(Lab)  
Lab APEX Turnaround time (check one): ☐ 5 days ☐ 10 days  
(specify)  
Send Results to: Rich Dufresne, Ellie Dick

SAMPLE #	DATE	BUILDING	ROOM	DESCRIPTION
22420600 073CF22A	12-6-22	MAIN	Rm 204	
074DW22A			Rm 204	
075CF22A			Rm 205	
076DW22A			Rm 205	
077CF22A			Rm 206	
078DW22A			Rm 206	
079CF22A			Rm 207	
080DW22A			Rm 207	
081CF22A			Rm 208	
082DW22A			Rm 208	
083CF22A			Rm 209	
088DW22A			Rm 209	
089CF22A			Rm 210	
090DW22A			Rm 210	
091CF22A			Rm 211	
092DW22A			Rm 211	
093CF22A			Rm 212	
094DW22A			Rm 212	
095CF22A			Rm 213	
096DW22A			Rm 213	
101DW22A			210's POD	Left
102DW22A			210's POD	Right
22420601 103CF22A		PORTABLE	P3 PORT	
22420600 104SF22A		MAIN	Staff Wkrs	

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A2L0277

## LEAD IN DRINKING WATER CHAIN OF CUSTODY

Project Name Tualatin SD - Metzger Project No: 27482.000 Phase: 0001 Task:

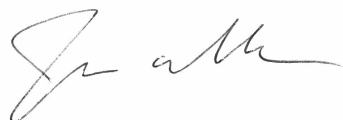
Samples submitted undamaged to lab by: Name/Sign: ELEMARD / [Signature] Date: 12/6/22 Time: 12:00

Samples received by lab undamaged: Name/Sign: Andy Mariposa [Signature] Date: 12/06/22 Time: 12:01

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

Send Results to: Rich Dufresne, Ellie Dick

SAMPLE #	DATE	BUILDING	ROOM	DESCRIPTION
22420600 073CF22A	12-6-22	MAIN	Rm 204	
074DW22A			Rm 204	
075CF22A			Rm 205	
076DW22A			Rm 205	
077CF22A			Rm 206	
078DW22A			Rm 206	
079CF22A			Rm 207	
080DW22A			Rm 207	
081CF22A			Rm 208	
082DW22A			Rm 208	
083CF22A			Rm 209	
088DW22A			Rm 209	
089CF22A			Rm 210	
090DW22A			Rm 210	
091CF22A			Rm 211	
092DW22A			Rm 211	
093CF22A			Rm 212	
094DW22A			Rm 212	
095CF22A			Rm 213	
096DW22A			Rm 213	
101DW22A			210's POD	Left
102DW22A			210's POD	Right
103CF22A		PORTABLE	P3 PORT	
104SF22A		MAIN	Staff Wkrs	



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Project: Tualatin SD

Project Number: Metzger/27482.000

Project Manager: Rich Dufresne

Report ID:

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## APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2 L0277

Project/Project #: Tualatin SD - Metzger / 27482.000

## Delivery Info:

Date/time received: 12/06/22 @ 12:01 By: AJM

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

Cooler Inspection Date/time inspected: 12/06/22 @ 13:25 By: AJM

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 (°C) 17.6

Received on ice? (Y/N) N

Temp. blanks? (Y/N) N

Ice type: (Gel/Real/Other) None

Condition (In/Out) Out

Cooler out of temp? ☒ Possible reason why: Drinking Water

Green dots applied to out of temperature samples? Yes ☐ No ☒

Out of temperature samples form initiated? Yes ☐ No ☒

Sample Inspection: Date/time inspected: 12/06/22 @ 1000 By: JS

All samples intact? Yes ☒ No ☐ Comments:

Bottle labels/COCs agree? Yes ☐ No ☒ Comments: All sample containers

missing prefix 22420600 - Suffix varies on all containers

COC/container discrepancies form initiated? Yes ☐ No ☒ for all samples.

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: 22420601 - 103CF22A missing sample ID prefix

Labeled by: JS

Witness: Kam

Cooler Inspected by: JS

Form Y-003 R-00

State of Oregon  
Oregon Health Authority

**Richard A. Dufresne**

is certified by the Oregon Health Authority to conduct Lead-Based Paint Activities

**Risk Assessor**

Certification Number:	1268--Indv--R
Issuance Date:	7/30/2020
Expiration Date:	7/30/2023



Oregon  
**Health**  
Authority