

March 6, 2025

Will Wenzloff
 Hillsboro School District
 4901 SE Witch Hazel Road
 Hillsboro, Oregon 97123

Via e-mail: wenzloffw@hsd.or.k12.us

Regarding: Drinking Water Sampling Report
 WL Henry Elementary School
 1060 SE 24th Avenue
 Hillsboro, OR 97123
 PBS Project 24013061 / 0006

Dear Mr. Wenzloff:

Between December 21, 2024, and January 18, 2025, PBS Engineering and Environmental LLC (PBS) collected drinking water samples at WL Henry Elementary School in Hillsboro, Oregon. Sampling included the main building, the stand-alone gymnasium, and the three-room modular classroom building. The testing was requested by Hillsboro School District as part of their efforts to ensure that concentrations of lead in drinking water at the school remain below the Oregon Department of Education (ODE) action level of 15 parts per billion (ppb).

Drinking water from all fixtures at the school have lead concentrations below 15 ppb.

Ninety-one samples were collected and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis. Two additional samples were delivered under chain of custody to Columbia Laboratories in Portland, Oregon for lead analysis. The following tables list the results of the analysis. Results above 15 ppm are shown in bold.

Main Building – Round 1

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390800-001KF24A	Kitchen, north wall, double prep sink faucet	0.212
002	22390800-002KF24A	Kitchen, north wall, double prep sink sprayer	52.8
003	22390800-003KF24A	Kitchen, north wall, single prep sink faucet	0.426
004	22390800-004KF24A	Kitchen scullery, north wall, single sink faucet	1.62
005	22390800-005BF24A	Staff restroom at kitchen	ND
006	22390800-006BF24A	Staff restroom at staff lounge	ND
007	22390800-007SF24A	Staff lounge sink faucet	ND
008	22390800-008BF24A	Boys restroom at Pod 2 – left to right (1)	ND
009	22390800-009BF24A	Boys restroom at Pod 2– left to right (2)	0.246
010	22390800-010BF24A	Boys restroom at Pod 2– left to right (3)	ND
011	22390800-011BF24A	Boys restroom at Pod 2 – left to right (4)	ND

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
012	22390800-012DW24A	Hall at Pod 2 restrooms, drinking fountain - left	ND
013	22390800-013WB24A	Hall at Pod 2 restrooms – water bottle filler	ND
014	22390800-014DW24A	Hall at Pod 2 restrooms, drinking fountain - right	ND
015	22390800-015BF24A	Girls restroom at Pod 2 – left to right (1)	ND
016	22390800-016BF24A	Girls restroom at Pod 2 – left to right (2)	ND
017	22390800-017BF24A	Girls restroom at Pod 2 – left to right (3)	ND
018	22390800-018BF24A	Girls restroom at Pod 2 – left to right (4)	ND
019	22390800-019DW24A	Room 10 drinking fountain	0.268
020	22390800-020CF24A	Room 10 classroom faucet	0.352
021	22390800-021DW24A	Room 11 drinking fountain	ND
022	22390800-022CF24A	Room 11 classroom faucet	ND
023	22390800-023DW24A	Room 12 drinking fountain	ND
024	22390800-024CF24A	Room 12 classroom faucet	0.970
025	22390800-025DW24A	Room 13 drinking fountain	ND
026	22390800-026CF24A	Room 13 classroom faucet	1.09
027	22390800-027DW24A	Room 14 drinking fountain	0.334
028	22390800-028CF24A	Room 14 classroom faucet	0.246
029	22390800-029DW24A	Room 15 drinking fountain	0.374
030	22390800-030CF24A	Room 15 classroom faucet	ND
031	22390800-031DW24A	Room 16 drinking fountain	ND
032	22390800-032CF24A	Room 16 classroom faucet	0.636
033	22390800-033DW24A	Room 17 drinking fountain	ND
034	22390800-034CF24A	Room 17 classroom faucet	ND
035	22390800-035DW24A	Room 18 drinking fountain	ND
036	22390800-036CF24A	Room 18 classroom faucet	ND
037		Pod 2 common area sink faucet – turned off	
038	22390800-038DW24A	Room 19 drinking fountain	ND
039	22390800-039CF24A	Room 19 classroom faucet	0.579
040	22390800-040SF24A	Library – sink faucet	2.48
041	22390800-041BF24A	Library restroom sink faucet	ND
042		Teacher’s workroom drinking fountain – not working	
043	22390800-043SF24A	Teacher’s workroom sink faucet	4.48
044	22390800-044NS24A	Health Room sink	ND
045	22390800-045DW24A	Room 1 drinking fountain	ND
046	22390800-046CF24A	Room 1 classroom faucet	0.329
047	22390800-047DW24A	Room 2 drinking fountain	ND
048	22390800-048CF24A	Room 2 classroom faucet	0.210
049	22390800-049DW24A	Room 3 drinking fountain	0.260
050	22390800-050CF24A	Room 3 classroom faucet	0.210
051	22390800-051DW24A	Room 4 drinking fountain	ND
052	22390800-052CF24A	Room 4 classroom faucet	0.290

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
053	22390800-053DW24A	Room 5 drinking fountain	0.257
054	22390800-054CF24A	Room 5 classroom faucet	ND
055	22390800-055DW24A	Room 6 drinking fountain	ND
056	22390800-056CF24A	Room 6 classroom faucet	ND
057	22390800-057DW24A	Room 7 drinking fountain	ND
058	22390800-0570CF24A	Room 7 classroom faucet	ND
059	22390800-059DW24A	Room 8 drinking fountain	0.338
060	22390800-060CF24A	Room 8 classroom faucet	ND
061	22390800-061DW24A	Room 9 drinking fountain	ND
062	22390800-062CF24A	Room 9 classroom faucet	0.224
063		Pod 1 common area sink faucet – turned off	
064	22390800-064BF24A	Girls restroom at Pod 1 – left to right (1)	ND
065	22390800-065BF24A	Girls restroom at Pod 1 – left to right (2)	0.302
066	22390800-066BF24A	Girls restroom at Pod 1 – left to right (3)	ND
067	22390800-067BF24A	Girls restroom at Pod 1 – left to right (4)	ND
068	22390800-068DW24A	Hall at Pod 1 restrooms, drinking fountain - left	ND
069	22390800-069WB24A	Hall at Pod 1 restrooms – water bottle filler	ND
070	22390800-070DW24A	Hall at Pod 1 restrooms, drinking fountain - right	ND
071	22390800-071BF24A	Boys restroom at Pod 1 – left to right (1)	ND
072		Boys restroom at Pod 1 – left to right (2) – not working	
073	22390800-073BF24A	Boys restroom at Pod 1 – left to right (3)	ND
074	22390800-074BF24A	Boys restroom at Pod 1 – left to right (4)	ND
075	22390800-075SF24A	Faculty break room, hot water tap	ND
076	22390800-076BF24A	Kindergarten pod, girls restroom	1.84
077	22390800-077BF24A	Kindergarten pod, boys restroom	4.26
078		Kindergarten Room 25 SE sink drinking fountain – not working	
079	22390800-079CF24A	Kindergarten Room 25 SE sink faucet	0.750
080		Kindergarten Room 25 SW sink drinking fountain – not working	
081	22390800-081CF24A	Kindergarten Room 25 SW sink faucet	0.794

ND = no lead detected

Main Building – Round 2

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
037	22390800-037CF24A	Pod 2 common area sink faucet	1.07
042	22390800-042DW24A	Teacher's workroom drinking fountain (fixture replaced)	1.57
063	22390800-063CF24A	Pod 1 common area sink faucet	7.03
072	22390800-072BF24A	Boys restroom at Pod 1 – left to right (2)	0.446
078	22390800-078DW24A	Kindergarten Room 25 SE sink drinking fountain (REMOVED)	69.8
080	22390800-080DW24A	Kindergarten Room 25 SW sink drinking fountain (REMOVED)	53.0

Main Building – Round 3

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
002	22390800-002KF25A	Kitchen, north wall, double prep sink sprayer – first draw	0.316
002	22390800-002KF25B	Kitchen, north wall, double prep sink sprayer – 30-second flush	<LOQ

ND = no lead detected

LOQ = limit of quantification

Main Building – Round 4

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
082	22390800-082DW25A	Music Room, drinking fountain	2.09
083	22390800-083CF25B	Music Room, classroom faucet	4.85

ND = no lead detected

Main Building Sampling Notes:

1. The first round of sampling showed that fixture 002, the sink sprayer at the double prep sink in the kitchen, had a lead concentration of 52.8 ppb. This fixture was replaced and resampled in round 3. Lead concentrations in this fixture are now well below 15 ppb.
2. Fixtures 037, 042, 063, 072, 078, and 080 were not working during the initial round of sampling. These fixtures were repaired and sampled during round 2. Fixtures 078 and 080, the drinking fountains in Room 25 in the kindergarten building, showed lead concentrations well above 15 ppm. At the request of the teacher in Room 25, these fixtures have been removed and the supply lines capped.
3. The drinking fountain and sink faucet in the music room were missed during the initial round of sampling. Samples from these fixtures were collected on March 1, 2025.

Gymnasium

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390804-001WB24A	Lobby – water bottle filler	ND
002	22390804-002DW24A	Lobby – drinking fountain, left	ND
003	22390804-003DW24A	Lobby – drinking fountain, right	ND
004	22390804-004BF24A	Restroom sink faucets, left to right (1)	ND
005	22390804-005BF24A	Restroom sink faucets, left to right (2)	ND
006	22390804-006BF24A	Restroom sink faucets, left to right (3)	ND
007	22390804-007BF24A	Restroom sink faucets, left to right (4)	ND
008	22390804-008BF24A	Private restroom sink faucet	ND

ND = no lead detected

Modular Classroom

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390803-001BF24A	Mens restroom sink faucet	0.371
002	22390803-002BF24A	Womens restroom sink faucet	0.323

ND = no lead detected

Please refer to the attached sample location drawings and 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.

Sampling methodology and the interpretation of laboratory results were based on the Environmental Protection Agency guidance document titled *3Ts for Reducing Lead in Drinking Water in Schools*. Following this guideline, PBS collected first draw samples from each test location. First draw samples consist of the first 250 milliliters (mL) of water drawn from a fixture after the water has been sitting stagnant for at least 8 hours. The 3Ts' sampling protocol specifying 250-mL samples is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified.

Please feel free to contact me at 503.515.4726 or voeller@pbsusa.com with any questions or comments.

Sincerely,

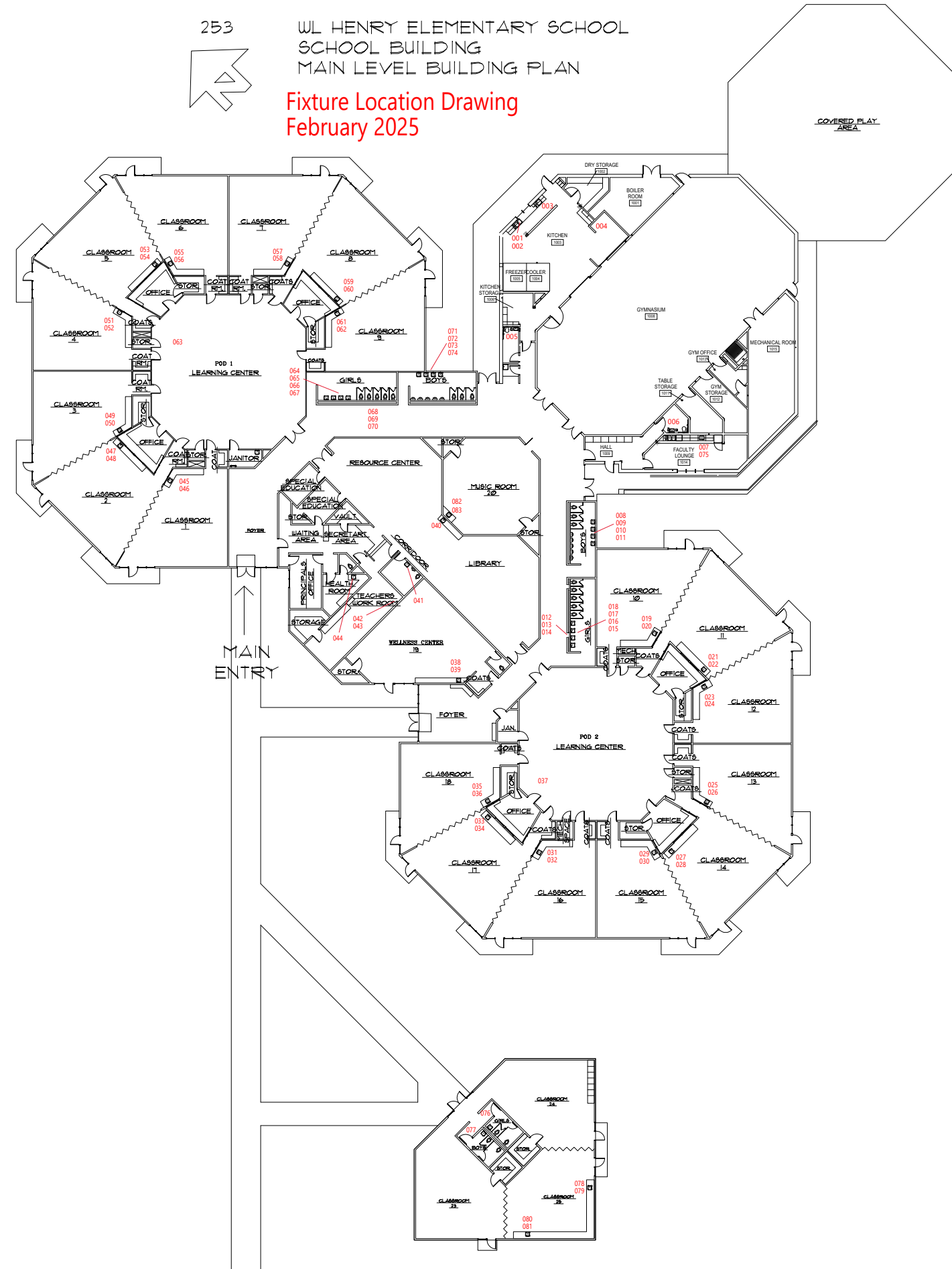
Dale Voeller, CHMM, CSP
Senior Project Manager

Attachments: Sample Location Drawings
Laboratory Analytical Report

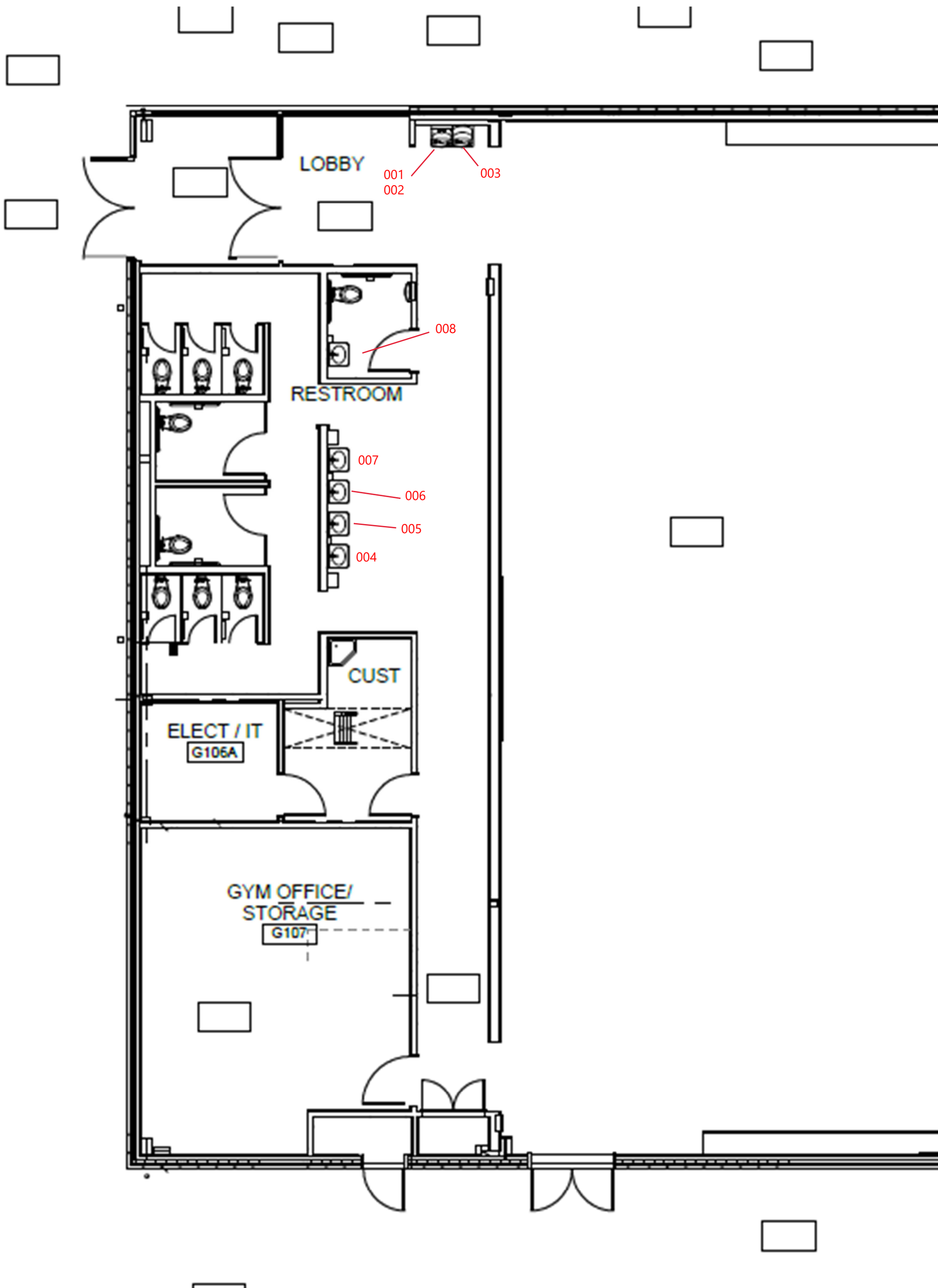


WL HENRY ELEMENTARY SCHOOL
SCHOOL BUILDING
MAIN LEVEL BUILDING PLAN

Fixture Location Drawing
February 2025



WL Henry ES
Gymnasium Building
Drinking Water Fixture Location Drawing
April 14, 2021



WL Henry Elementary School
Laboratory Analytical Reports

Main Building



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Thursday, January 16, 2025

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

RE: A4L1776 - Hillsboro School District - WL Henry ES/24013061

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 A4L1776, which was received by the laboratory on 12/27/2024 at 2:04:00PM.

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, or by phone at 503-718-2323.

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

Cooler Receipt Information		
<p><u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u></p> <p>(See Cooler Receipt Form for details)</p>		
<p>Default Cooler</p>	<p>17.0</p>	<p>degC</p>

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

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



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390800-001KF24A	A4L1776-01	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-002KF24A	A4L1776-02	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-003KF24A	A4L1776-03	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-004KF24A	A4L1776-04	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-005BF24A	A4L1776-05	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-006BF24A	A4L1776-06	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-007SF24A	A4L1776-07	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-008BF24A	A4L1776-08	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-009BF24A	A4L1776-09	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-010BF24A	A4L1776-10	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-011BF24A	A4L1776-11	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-012DW24A	A4L1776-12	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-013WB24A	A4L1776-13	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-014DW24A	A4L1776-14	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-015BF24A	A4L1776-15	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-016BF24A	A4L1776-16	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-017BF24A	A4L1776-17	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-018BF24A	A4L1776-18	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-019DW24A	A4L1776-19	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-020CF24A	A4L1776-20	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-021DW24A	A4L1776-21	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-022CF24A	A4L1776-22	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-023DW24A	A4L1776-23	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-024CF24A	A4L1776-24	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-025DW24A	A4L1776-25	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-026CF24A	A4L1776-26	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-027DW24A	A4L1776-27	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-028CF24A	A4L1776-28	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-029DW24A	A4L1776-29	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-030CF24A	A4L1776-30	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-031DW24A	A4L1776-31	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-032CF24A	A4L1776-32	Drinking Water	12/21/24 00:00	12/27/24 14:04

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390800-033DW24A	A4L1776-33	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-034CF24A	A4L1776-34	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-035DW24A	A4L1776-35	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-036CF24A	A4L1776-36	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-038DW24A	A4L1776-37	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-039CF24A	A4L1776-38	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-040SF24A	A4L1776-39	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-041BF24A	A4L1776-40	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-043SF24A	A4L1776-41	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-044NS24A	A4L1776-42	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-045DW24A	A4L1776-43	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-046CF24A	A4L1776-44	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-047DW24A	A4L1776-45	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-048CF24A	A4L1776-46	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-049DW24A	A4L1776-47	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-050CF24A	A4L1776-48	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-051DW24A	A4L1776-49	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-052CF24A	A4L1776-50	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-053DW24A	A4L1776-51	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-054CF24A	A4L1776-52	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-055DW24A	A4L1776-53	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-056CF24A	A4L1776-54	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-057DW24A	A4L1776-55	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-0570CF24A	A4L1776-56	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-059DW24A	A4L1776-57	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-060CF24A	A4L1776-58	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-061DW24A	A4L1776-59	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-062CF24A	A4L1776-60	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-064BF24A	A4L1776-61	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-065BF24A	A4L1776-62	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-066BF24A	A4L1776-63	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-067BF24A	A4L1776-64	Drinking Water	12/21/24 00:00	12/27/24 14:04

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390800-068DW24A	A4L1776-65	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-069WB24A	A4L1776-66	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-070DW24A	A4L1776-67	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-071BF24A	A4L1776-68	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-073BF24A	A4L1776-69	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-074BF24A	A4L1776-70	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-075SF24A	A4L1776-71	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-076BF24A	A4L1776-72	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-077BF24A	A4L1776-73	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-079CF24A	A4L1776-74	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390800-081CF24A	A4L1776-75	Drinking Water	12/21/24 00:00	12/27/24 14:04

Apex Laboratories

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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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
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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
22390800-001KF24A (A4L1776-01)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	0.212	---	0.200	ug/L	1	01/13/25 18:33	EPA 200.8	
22390800-002KF24A (A4L1776-02)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	52.8	---	0.200	ug/L	1	01/13/25 18:35	EPA 200.8	
22390800-003KF24A (A4L1776-03)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	0.426	---	0.200	ug/L	1	01/13/25 18:37	EPA 200.8	
22390800-004KF24A (A4L1776-04)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	1.62	---	0.200	ug/L	1	01/13/25 18:39	EPA 200.8	
22390800-005BF24A (A4L1776-05)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:40	EPA 200.8	
22390800-006BF24A (A4L1776-06)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:46	EPA 200.8	
22390800-007SF24A (A4L1776-07)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:48	EPA 200.8	
22390800-008BF24A (A4L1776-08)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:50	EPA 200.8	
22390800-009BF24A (A4L1776-09)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	0.246	---	0.200	ug/L	1	01/13/25 18:52	EPA 200.8	

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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
22390800-010BF24A (A4L1776-10)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:53	EPA 200.8	
22390800-011BF24A (A4L1776-11)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:55	EPA 200.8	
22390800-012DW24A (A4L1776-12)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:57	EPA 200.8	
22390800-013WB24A (A4L1776-13)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:59	EPA 200.8	
22390800-014DW24A (A4L1776-14)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 19:01	EPA 200.8	
22390800-015BF24A (A4L1776-15)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 19:03	EPA 200.8	
22390800-016BF24A (A4L1776-16)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 19:08	EPA 200.8	
22390800-017BF24A (A4L1776-17)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 19:10	EPA 200.8	
22390800-018BF24A (A4L1776-18)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 19:12	EPA 200.8	

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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
22390800-019DW24A (A4L1776-19) Matrix: Drinking Water								
Batch: 25A0378								
Lead	0.268	---	0.200	ug/L	1	01/13/25 19:14	EPA 200.8	
22390800-020CF24A (A4L1776-20) Matrix: Drinking Water								
Batch: 25A0395								
Lead	0.352	---	0.200	ug/L	1	01/14/25 15:11	EPA 200.8	
22390800-021DW24A (A4L1776-21) Matrix: Drinking Water								
Batch: 25A0395								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:16	EPA 200.8	
22390800-022CF24A (A4L1776-22) Matrix: Drinking Water								
Batch: 25A0395								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:18	EPA 200.8	
22390800-023DW24A (A4L1776-23) Matrix: Drinking Water								
Batch: 25A0395								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:20	EPA 200.8	
22390800-024CF24A (A4L1776-24) Matrix: Drinking Water								
Batch: 25A0395								
Lead	0.970	---	0.200	ug/L	1	01/14/25 15:22	EPA 200.8	
22390800-025DW24A (A4L1776-25) Matrix: Drinking Water								
Batch: 25A0395								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:23	EPA 200.8	
22390800-026CF24A (A4L1776-26) Matrix: Drinking Water								
Batch: 25A0395								
Lead	1.09	---	0.200	ug/L	1	01/14/25 15:29	EPA 200.8	
22390800-027DW24A (A4L1776-27) Matrix: Drinking Water								
Batch: 25A0395								
Lead	0.334	---	0.200	ug/L	1	01/14/25 15:31	EPA 200.8	

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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
22390800-028CF24A (A4L1776-28)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	0.246	---	0.200	ug/L	1	01/14/25 15:33	EPA 200.8	
22390800-029DW24A (A4L1776-29)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	0.374	---	0.200	ug/L	1	01/14/25 15:34	EPA 200.8	
22390800-030CF24A (A4L1776-30)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:36	EPA 200.8	
22390800-031DW24A (A4L1776-31)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:38	EPA 200.8	
22390800-032CF24A (A4L1776-32)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	0.636	---	0.200	ug/L	1	01/14/25 15:40	EPA 200.8	
22390800-033DW24A (A4L1776-33)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:42	EPA 200.8	
22390800-034CF24A (A4L1776-34)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:44	EPA 200.8	
22390800-035DW24A (A4L1776-35)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:45	EPA 200.8	
22390800-036CF24A (A4L1776-36)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:51	EPA 200.8	

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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
22390800-038DW24A (A4L1776-37)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	ND	---	0.200	ug/L	1	01/14/25 15:53	EPA 200.8	
22390800-039CF24A (A4L1776-38)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	0.579	---	0.200	ug/L	1	01/14/25 15:55	EPA 200.8	
22390800-040SF24A (A4L1776-39)				Matrix: Drinking Water				
<u>Batch: 25A0395</u>								
Lead	2.48	---	0.200	ug/L	1	01/14/25 15:56	EPA 200.8	
22390800-041BF24A (A4L1776-40RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 16:27	EPA 200.8	
22390800-043SF24A (A4L1776-41RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	4.48	---	0.200	ug/L	1	01/15/25 16:36	EPA 200.8	
22390800-044NS24A (A4L1776-42RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 16:38	EPA 200.8	
22390800-045DW24A (A4L1776-43RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 16:40	EPA 200.8	
22390800-046CF24A (A4L1776-44RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	0.329	---	0.200	ug/L	1	01/15/25 16:42	EPA 200.8	
22390800-047DW24A (A4L1776-45RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 16:44	EPA 200.8	

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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	
22390800-048CF24A (A4L1776-46RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	0.210	---	0.200	ug/L	1	01/15/25 16:45	EPA 200.8		
22390800-049DW24A (A4L1776-47RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	0.260	---	0.200	ug/L	1	01/15/25 16:47	EPA 200.8		
22390800-050CF24A (A4L1776-48RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	0.210	---	0.200	ug/L	1	01/15/25 16:49	EPA 200.8		
22390800-051DW24A (A4L1776-49RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	ND	---	0.200	ug/L	1	01/15/25 16:51	EPA 200.8		
22390800-052CF24A (A4L1776-50RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	0.290	---	0.200	ug/L	1	01/15/25 16:53	EPA 200.8		
22390800-053DW24A (A4L1776-51RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	0.257	---	0.200	ug/L	1	01/15/25 17:55	EPA 200.8		
22390800-054CF24A (A4L1776-52RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	ND	---	0.200	ug/L	1	01/15/25 17:57	EPA 200.8		
22390800-055DW24A (A4L1776-53RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	ND	---	0.200	ug/L	1	01/15/25 17:59	EPA 200.8		
22390800-056CF24A (A4L1776-54RE1)				Matrix: Drinking Water					
<u>Batch: 25A0464</u>									
Lead	ND	---	0.200	ug/L	1	01/15/25 18:01	EPA 200.8		

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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
22390800-057DW24A (A4L1776-55RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 18:03	EPA 200.8	
22390800-0570CF24A (A4L1776-56RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 18:04	EPA 200.8	
22390800-059DW24A (A4L1776-57RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	0.338	---	0.200	ug/L	1	01/15/25 18:06	EPA 200.8	
22390800-060CF24A (A4L1776-58RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 18:08	EPA 200.8	
22390800-061DW24A (A4L1776-59RE1)				Matrix: Drinking Water				
<u>Batch: 25A0464</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 18:10	EPA 200.8	
22390800-062CF24A (A4L1776-60)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	0.224	---	0.200	ug/L	1	01/15/25 15:34	EPA 200.8	
22390800-064BF24A (A4L1776-61)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:39	EPA 200.8	
22390800-065BF24A (A4L1776-62)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	0.302	---	0.200	ug/L	1	01/15/25 15:41	EPA 200.8	
22390800-066BF24A (A4L1776-63)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:43	EPA 200.8	

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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
22390800-067BF24A (A4L1776-64)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:45	EPA 200.8	
22390800-068DW24A (A4L1776-65)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:47	EPA 200.8	
22390800-069WB24A (A4L1776-66)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:52	EPA 200.8	
22390800-070DW24A (A4L1776-67)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:54	EPA 200.8	
22390800-071BF24A (A4L1776-68)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:56	EPA 200.8	
22390800-073BF24A (A4L1776-69)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:58	EPA 200.8	
22390800-074BF24A (A4L1776-70)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 15:59	EPA 200.8	
22390800-075SF24A (A4L1776-71)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	ND	---	0.200	ug/L	1	01/15/25 16:01	EPA 200.8	
22390800-076BF24A (A4L1776-72)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	1.84	---	0.200	ug/L	1	01/15/25 16:03	EPA 200.8	

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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
22390800-077BF24A (A4L1776-73)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	4.26	---	0.200	ug/L	1	01/15/25 16:05	EPA 200.8	
22390800-079CF24A (A4L1776-74)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	0.750	---	0.200	ug/L	1	01/15/25 16:07	EPA 200.8	
22390800-081CF24A (A4L1776-75)				Matrix: Drinking Water				
<u>Batch: 25A0404</u>								
Lead	0.794	---	0.200	ug/L	1	01/15/25 16:09	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 Limits	RPD	RPD Limit	Notes
Batch 25A0378 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0378-BLK1)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 18:24										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0378-BS1)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 18:26										
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	---
Matrix Spike (25A0378-MS2)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 19:16										
<u>QC Source Sample: 22390800-019DW24A (A4L1776-19)</u>												
<u>EPA 200.8</u>												
Lead	15.7	---	0.201	ug/L	1	15.0	0.268	103	70 - 130%	---	---	---
Batch 25A0395 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0395-BLK1)		Prepared: 01/13/25 13:04 Analyzed: 01/14/25 15:07										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0395-BS1)		Prepared: 01/13/25 13:04 Analyzed: 01/14/25 15:09										
<u>EPA 200.8</u>												
Lead	14.8	---	0.201	ug/L	1	15.0	---	98	85 - 115%	---	---	---
Duplicate (25A0395-DUP1)		Prepared: 01/13/25 13:04 Analyzed: 01/14/25 15:12										
<u>QC Source Sample: 22390800-020CF24A (A4L1776-20)</u>												
<u>EPA 200.8</u>												
Lead	0.336	---	0.200	ug/L	1	---	0.352	---	---	5	20%	---
Matrix Spike (25A0395-MS1)		Prepared: 01/13/25 13:04 Analyzed: 01/14/25 15:14										
<u>QC Source Sample: 22390800-020CF24A (A4L1776-20)</u>												
<u>EPA 200.8</u>												
Lead	14.8	---	0.201	ug/L	1	15.0	0.352	96	70 - 130%	---	---	---
Matrix Spike (25A0395-MS2)		Prepared: 01/13/25 13:04 Analyzed: 01/14/25 15:58										
<u>QC Source Sample: 22390800-040SF24A (A4L1776-39)</u>												

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
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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
Batch 25A0395 - EPA 200.8 Direct Analysis						Drinking Water						
Matrix Spike (25A0395-MS2)		Prepared: 01/13/25 13:04 Analyzed: 01/14/25 15:58										
<u>QC Source Sample: 22390800-040SF24A (A4L1776-39)</u>												
<u>EPA 200.8</u>												
Lead	16.9	---	0.201	ug/L	1	15.0	2.48	96	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 Limits	RPD	RPD Limit	Notes
Batch 25A0404 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0404-BLK1)		Prepared: 01/13/25 14:42 Analyzed: 01/15/25 15:30										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0404-BS1)		Prepared: 01/13/25 14:42 Analyzed: 01/15/25 15:32										
<u>EPA 200.8</u>												
Lead	15.2	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	---
Duplicate (25A0404-DUP1)		Prepared: 01/13/25 14:42 Analyzed: 01/15/25 15:36										
<u>QC Source Sample: 22390800-062CF24A (A4L1776-60)</u>												
<u>EPA 200.8</u>												
Lead	0.203	---	0.200	ug/L	1	---	0.224	---	---	10	20%	---
Matrix Spike (25A0404-MS1)		Prepared: 01/13/25 14:42 Analyzed: 01/15/25 15:38										
<u>QC Source Sample: 22390800-062CF24A (A4L1776-60)</u>												
<u>EPA 200.8</u>												
Lead	15.0	---	0.201	ug/L	1	15.0	0.224	99	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 Limits	RPD	RPD Limit	Notes
Batch 25A0464 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0464-BLK1)		Prepared: 01/15/25 07:55 Analyzed: 01/15/25 16:23										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0464-BS1)		Prepared: 01/15/25 07:55 Analyzed: 01/15/25 16:25										
<u>EPA 200.8</u>												
Lead	15.7	---	0.201	ug/L	1	15.0	---	104	85 - 115%	---	---	---
Duplicate (25A0464-DUP1)		Prepared: 01/15/25 07:55 Analyzed: 01/15/25 16:29										
<u>QC Source Sample: 22390800-041BF24A (A4L1776-40RE1)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	0.104	---	---	***	20%	---
Matrix Spike (25A0464-MS1)		Prepared: 01/15/25 07:55 Analyzed: 01/15/25 16:31										
<u>QC Source Sample: 22390800-041BF24A (A4L1776-40RE1)</u>												
<u>EPA 200.8</u>												
Lead	15.3	---	0.201	ug/L	1	15.0	0.104	101	70 - 130%	---	---	---
Matrix Spike (25A0464-MS2)		Prepared: 01/15/25 07:55 Analyzed: 01/15/25 18:12										
<u>QC Source Sample: 22390800-061DW24A (A4L1776-59RE1)</u>												
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	ND	103	70 - 130%	---	---	---

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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: 25A0378</u>							
A4L1776-01	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-02	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-03	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-04	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-05	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-06	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-07	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-08	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-09	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-10	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-11	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-12	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-13	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-14	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-15	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-16	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-17	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-18	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
A4L1776-19	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00
<u>Batch: 25A0395</u>							
A4L1776-20	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-21	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-22	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-23	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-24	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-25	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-26	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-27	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-28	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-29	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-30	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-31	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-32	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-33	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-34	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-35	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
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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
A4L1776-36	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-37	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-38	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
A4L1776-39	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 13:04	10mL/10mL	10mL/10mL	1.00
<u>Batch: 25A0404</u>							
A4L1776-60	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-61	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-62	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-63	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-64	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-65	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-66	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-67	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-68	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-69	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-70	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-71	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-72	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-73	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-74	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
A4L1776-75	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 14:42	10mL/10mL	10mL/10mL	1.00
<u>Batch: 25A0464</u>							
A4L1776-40RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-41RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-42RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-43RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-44RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-45RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-46RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-47RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-48RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-49RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-50RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-51RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-52RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-53RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	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
A4L1776-54RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-55RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-56RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-57RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-58RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00
A4L1776-59RE1	Drinking Water	EPA 200.8	12/21/24 00:00	01/15/25 07:55	10mL/10mL	10mL/10mL	1.00

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QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

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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 one half of the Reporting Limit (RL).
 Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
 -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.

Apex Laboratories

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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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1776 - 01 16 25 0928
---	---	---

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.

Benzofluoranthene Isomer Reporting:

Due to coelutions present on the analytical column, the results reported for Benzo(b+j)fluoranthene(s) represent the concentration of both the Benzo(b)fluoranthene and Benzo(j)fluoranthene isomers. Calibration, validation and accreditation are based on the Benzo(b)fluoranthene isomer.

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Jason Woodcock, Project Manager



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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **WL Henry ES/24013061**

Project Manager: **Dale Voeller**

Report ID:

A4L1776 - 01 16 25 0928

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

Table with project details: PBS Engineering and Environmental, Hillsboro School District, Project Number: WL Henry ES/24013061, Report ID: A4L1776 - 01 16 25 0928

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

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

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Handwritten signature of Jason Woodcock

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WO# A4L1776

Lead in Drinking Water Testing Program

Hillsboro School District

Date Collected: 12/21/2024

School Name: WL Henry Elementary School

	Fixture Number	Sample Number	Room / Location
21	021	22390800-021DW24A	Room 11 drinking fountain
22	022	22390800-022CF24A	Room 11 classroom faucet
23	023	22390800-023DW24A	Room 12 drinking fountain
24	024	22390800-024CF24A	Room 12 classroom faucet
25	025	22390800-025DW24A	Room 13 drinking fountain
26	026	22390800-026CF24A	Room 13 classroom faucet
27	027	22390800-027DW24A	Room 14 drinking fountain
28	028	22390800-028CF24A	Room 14 classroom faucet
29	029	22390800-029DW24A	Room 15 drinking fountain
30	030	22390800-030CF24A	Room 15 classroom faucet
31	031	22390800-031DW24A	Room 16 drinking fountain
32	032	22390800-032CF24A	Room 16 classroom faucet
33	033	22390800-033DW24A	Room 17 drinking fountain
34	034	22390800-034CF24A	Room 17 classroom faucet
35	035	22390800-035DW24A	Room 18 drinking fountain
36	036	22390800-036CF24A	Room 18 classroom faucet
37	037		Pod 2 common area sink faucet – turned off
38	038	22390800-038DW24A	Room 19 drinking fountain
39	039	22390800-039CF24A	Room 19 classroom faucet
40	040	22390800-040SF24A	Library – sink faucet
41	041	22390800-041BF24A	Library restroom sink faucet
42	042		Teacher's workroom drinking fountain – not working
43	043	22390800-043SF24A	Teacher's workroom sink faucet
44	044	22390800-044NS24A	Health Room sink
45	045	22390800-045DW24A	Room 1 drinking fountain
46	046	22390800-046CF24A	Room 1 classroom faucet
47	047	22390800-047DW24A	Room 2 drinking fountain
48	048	22390800-048CF24A	Room 2 classroom faucet
49	049	22390800-049DW24A	Room 3 drinking fountain
50	050	22390800-050CF24A	Room 3 classroom faucet



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WO# A4L1776

Lead in Drinking Water Testing Program Hillsboro School District

Date Collected: 12/21/2024 School Name: WL Henry Elementary School

	Fixture Number	Sample Number	Room / Location
51	051	22390800-051DW24A	Room 4 drinking fountain
52	052	22390800-052CF24A	Room 4 classroom faucet
53	053	22390800-053DW24A	Room 5 drinking fountain
54	054	22390800-054CF24A	Room 5 classroom faucet
55	055	22390800-055DW24A	Room 6 drinking fountain
56	056	22390800-056CF24A	Room 6 classroom faucet
57	057	22390800-057DW24A	Room 7 drinking fountain
58	058	22390800-0570CF24A	Room 7 classroom faucet
59	059	22390800-059DW24A	Room 8 drinking fountain
60	060	22390800-060CF24A	Room 8 classroom faucet
61	061	22390800-061DW24A	Room 9 drinking fountain
62	062	22390800-062CF24A	Room 9 classroom faucet
63	063		Pod 1 common area sink faucet – turned off
64	064	22390800-064BF24A	Girls restroom at Pod 1 – left to right (1)
65	065	22390800-065BF24A	Girls restroom at Pod 1 – left to right (2)
66	066	22390800-066BF24A	Girls restroom at Pod 1 – left to right (3)
67	067	22390800-067BF24A	Girls restroom at Pod 1 – left to right (4)
68	068	22390800-068DW24A	Hall at Pod 1 restrooms, drinking fountain - left
69	069	22390800-069WB24A	Hall at Pod 1 restrooms – water bottle filler
70	070	22390800-070DW24A	Hall at Pod 1 restrooms, drinking fountain - right
71	071	22390800-071BF24A	Boys restroom at Pod 1 – left to right (1)
72	072		Boys restroom at Pod 1 – left to right (2) – not working
73	073	22390800-073BF24A	Boys restroom at Pod 1 – left to right (3)
74	074	22390800-074BF24A	Boys restroom at Pod 1 – left to right (4)
75	075	22390800-075SF24A	Faculty break room, hot water tap
76	076	22390800-076BF24A	Kindergarten pod, girls restroom
77	077	22390800-077BF24A	Kindergarten pod, boys restroom
78	078		Kindergarten Room 25 SE sink drinking fountain – not working
79	079	22390800-079CF24A	Kindergarten Room 25 SE sink faucet
80	080		Kindergarten Room 25 SW sink drinking fountain – not working



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Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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NO# A4L1776


Lead in Drinking Water Testing Program Hillsboro School District

Date Collected: 12/21/2024 School Name: WL Henry Elementary School

Fixture Number	Sample Number	Room / Location
81	081	22390800-081CF24A Kindergarten Room 25 SW sink faucet

Relinquished By/Signature: Date/Time: 12/27/24 @ 1:10pm

Received By/Signature: APEX LABS Date/Time: 12/27/24 1404


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Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4 L1776
 Project/Project #: W.L. Henry Elementary School - ^{main} Building 24013061/0005
22390800

Delivery Info:

Date/time received: 12/27/24 @ 1404 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other
 From USDA Regulated Origin? Yes No
Cooler Inspection Date/time inspected: 12/27/24 @ 1427 By: EST

Chain of Custody included? Yes No
 Signed/dated by client? Yes No
 Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>17.0</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>NA</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

Out of temperature samples form initiated? Yes No
Sample Inspection: Date/time inspected: 12/27/24 @ 1745 By: KN
 All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: cont. ID for 22390800-0570CF24A reads 22390800-058CF24A, matched by Fixture #.

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 pH ID: A23I172
 Comments: _____

Labeled by: KN Witness: JA Cooler Inspected by: KN

Form Y-003 R-02

Apex Laboratories

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

Friday, January 17, 2025

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

RE: A5A0880 - Hillsboro School District - WL Henry ES/24013061

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 A5A0880, which was received by the laboratory on 1/6/2025 at 10:24:00AM.

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, or by phone at 503-718-2323.

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

Cooler Receipt Information		
<p><u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u></p> <p>(See Cooler Receipt Form for details)</p>		
<p>Default Cooler</p>	<p>3.9</p>	<p>degC</p>

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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Jason Woodcock, Project Manager



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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A5A0880 - 01 17 25 1053
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390800-037CF24A	A5A0880-01	Drinking Water	01/03/25 00:00	01/06/25 10:24
22390800-042DW24A	A5A0880-02	Drinking Water	01/03/25 00:00	01/06/25 10:24
22390800-063CF24A	A5A0880-03	Drinking Water	01/03/25 00:00	01/06/25 10:24
22390800-072BF24A	A5A0880-04	Drinking Water	01/03/25 00:00	01/06/25 10:24
22390800-078DW24A	A5A0880-05	Drinking Water	01/03/25 00:00	01/06/25 10:24
22390800-080DW24A	A5A0880-06	Drinking Water	01/03/25 00:00	01/06/25 10:24

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A5A0880 - 01 17 25 1053
--	--	---

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
22390800-037CF24A (A5A0880-01RE1)				Matrix: Drinking Water				
<u>Batch: 25A0428</u>								
Lead	1.07	---	0.200	ug/L	1	01/16/25 15:42	EPA 200.8	
22390800-042DW24A (A5A0880-02RE1)				Matrix: Drinking Water				
<u>Batch: 25A0428</u>								
Lead	1.57	---	0.200	ug/L	1	01/16/25 15:43	EPA 200.8	
22390800-063CF24A (A5A0880-03)				Matrix: Drinking Water				
<u>Batch: 25A0428</u>								
Lead	7.03	---	0.200	ug/L	1	01/16/25 15:45	EPA 200.8	
22390800-072BF24A (A5A0880-04)				Matrix: Drinking Water				
<u>Batch: 25A0428</u>								
Lead	0.446	---	0.200	ug/L	1	01/16/25 15:47	EPA 200.8	
22390800-078DW24A (A5A0880-05)				Matrix: Drinking Water				
<u>Batch: 25A0428</u>								
Lead	69.8	---	0.200	ug/L	1	01/16/25 15:49	EPA 200.8	
22390800-080DW24A (A5A0880-06)				Matrix: Drinking Water				
<u>Batch: 25A0428</u>								
Lead	53.0	---	0.200	ug/L	1	01/16/25 15:51	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 Limits	RPD	RPD Limit	Notes
Batch 25A0428 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0428-BLK1)		Prepared: 01/14/25 09:53 Analyzed: 01/16/25 15:09										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0428-BS1)		Prepared: 01/14/25 09:53 Analyzed: 01/16/25 15:11										
<u>EPA 200.8</u>												
Lead	15.3	---	0.201	ug/L	1	15.0	---	102	85 - 115%	---	---	---

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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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: 25A0428</u>							
A5A0880-01RE1	Drinking Water	EPA 200.8	01/03/25 00:00	01/14/25 09:53	10mL/10mL	10mL/10mL	1.00
A5A0880-02RE1	Drinking Water	EPA 200.8	01/03/25 00:00	01/14/25 09:53	10mL/10mL	10mL/10mL	1.00
A5A0880-03	Drinking Water	EPA 200.8	01/03/25 00:00	01/14/25 09:53	10mL/10mL	10mL/10mL	1.00
A5A0880-04	Drinking Water	EPA 200.8	01/03/25 00:00	01/14/25 09:53	10mL/10mL	10mL/10mL	1.00
A5A0880-05	Drinking Water	EPA 200.8	01/03/25 00:00	01/14/25 09:53	10mL/10mL	10mL/10mL	1.00
A5A0880-06	Drinking Water	EPA 200.8	01/03/25 00:00	01/14/25 09:53	10mL/10mL	10mL/10mL	1.00

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QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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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 one half of the Reporting Limit (RL).
 Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
 -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.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A5A0880 - 01 17 25 1053
---	---	---

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.

Benzofluoranthene Isomer Reporting:

Due to coelutions present on the analytical column, the results reported for Benzo(b+j)fluoranthene(s) represent the concentration of both the Benzo(b)fluoranthene and Benzo(j)fluoranthene isomers. Calibration, validation and accreditation are based on the Benzo(b)fluoranthene isomer.

Apex Laboratories

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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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A5A0880 - 01 17 25 1053
---	---	---

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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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

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Hillsboro School District), and Report ID (A5A0880 - 01 17 25 1053).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

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

Apex Laboratories

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Handwritten signature of Jason Woodcock

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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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A5A0880 - 01 17 25 1053
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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A5 A0880
 Project/Project #: WL Henry Elementary School Round 2 / 24013061/0006
Building number 2230800

Delivery Info:

Date/time received: 1/6/25 @ 1029 By: JPC
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other
 From USDA Regulated Origin? Yes No

Cooler Inspection Date/time inspected: 1/6/25 @ 1237 By: JPC

Chain of Custody included? Yes No
 Signed/dated by client? Yes No
 Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.9</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Ice/Refr/Other)	<u>66C / REFR</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No
Sample Inspection: Date/time inspected: 1/6/25 @ 1440 By: JS

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 pH ID: A231172

Comments: _____

Labeled by: [Signature] Witness: [Signature] Cooler Inspected by: [Signature]
Form Y-003 R-02

Apex Laboratories

Jason Woodcock, Project Manager

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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 25-000633/D001.R000
Report Date: 01/21/2025
ORELAP#: OR100028
Purchase Order:
Project Name: 24013061 / 0006
Project No:

Cover Letter

PBS Engineering
4412 S Corbett Ave
Portland Oregon 97267
United States of America (USA)

Dear Dale Voeller,

Enclosed please find Columbia Laboratories analytical report for samples received as order number 25-000633 on 01/20/2025 at 09:05. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

Thank you for allowing Columbia Laboratories to be of service to you, we appreciate your business.

Sincerely,

Derrick Tanner
General Manager



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 25-000633/D001.R000
Report Date: 01/21/2025
ORELAP#: OR100028
Purchase Order:
Project Name: 24013061 / 0006
Project No:

Sample Results

Sample: 22390800-002KF25A Collected: 1/18/25 09:00 Temp: 18 °C Matrix:
 Lab ID: 25-000633-0001 Received: 1/20/25 09:05 Evidence of Cooling: N Drinking Water

Method: EPA 200.8 in mg/l									
Analyte	Result	Limit	Units	LOQ	Dil.	Batch	Start/Extract	Analyzed	Notes
Lead [±]	0.316	15.000	µg/l	0.2	1.00	2500432		01/21/25 10:51	

Sample Results

Sample: 22390800-002KF25B Collected: 1/18/25 09:00 Temp: 18 °C Matrix:
 Lab ID: 25-000633-0002 Received: 1/20/25 09:05 Evidence of Cooling: N Drinking Water

Method: EPA 200.8 in mg/l									
Analyte	Result	Limit	Units	LOQ	Dil.	Batch	Start/Extract	Analyzed	Notes
Lead [±]	< LOQ	15.000	µg/l	0.2	1.00	2500432		01/21/25 10:54	

Units of Measure

µg/l = micrograms per liter

Abbreviations

LOQ Limit of quantification

[±] = TNI accredited analyte.



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 25-000633/D001.R000
Report Date: 01/21/2025
ORELAP#: OR100028
Purchase Order:
Project Name: 24013061 / 0006
Project No:



Chain of Custody

PBS-Engineering-and-
 Environmental-
 1737228014

Company Details Company: <u>PBS Engineering and Environmental</u> Contact: <u>DALE VOELLER</u> Street Address: <u>4412 S. Corbett Avenue</u> City, State, Zip: <u>Portland, OR 97239</u> Email: <u>dale.voeller@pbsusa.com</u> Contact Phone: <u>5035154726</u> Company Phone: <u>5035154726</u> Billing Information Billing Email: <u>accountspayable@pbsusa.com</u>		Project Details Compliance: <u>Compliance</u> Turnaround Time: <u>2 Business Days Surcharges Apply</u> Sample Relinquishment Options: <u>Drop Off at Laboratory</u> Project Name / ID: <u>24013061 / 0006</u> Sample(s) Collected By: <u>Dale Voeller</u> Additional Comments for Project: <u>Please RUSH</u> Receipt Information Evidence of Cooling?: No Sample Condition: Satisfactory Prelog Storage: CL-1215		Testing	Bottles	
				E2008PB - Lead in DW - Schools/Childcare	250ml Poly HNCB	
#	Material	Sample Name Field ID	Collection Date	Collection Time		
1	Drinking Water	22390800-002KF25A	01/18/2025	9:00 AM	✓	B0024
2	Drinking Water	22390800-002KF25B	01/18/2025	9:00 AM	✓	B0024

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	IR Therm. CL #	Other IR Therm. CL #
Dale Voeller	01/18/2025	11:20	sem	01/20/2025	09:05	18	Other	495

ID	Admin Submission Comment(s)	Name	Date, Time
1	would like results faster if possible	sem	01/20/2025 09:06

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
 12423 NE Whitaker Way
 Portland, OR 97230

P: (503) 254-1794
info@columbiaboratories.com

Page 1 of 1
www.columbiaboratories.com



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 25-000633/D001.R000
Report Date: 01/21/2025
ORELAP#: OR100028
Purchase Order:
Project Name: 24013061 / 0006
Project No:

Case Narrative

No Case Narrative notes to report.



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 25-002195/D001.R000
Report Date: 03/06/2025
ORELAP#: OR100028
Purchase Order: 24013061 / 0006
Project Name: WL Henry
Project No: Elementary School

Cover Letter

PBS Engineering
4412 S Corbett Ave
Portland Oregon 97267
United States of America (USA)

Dear Dale Voeller,

Enclosed please find Columbia Laboratories analytical report for samples received as order number 25-002195 on 03/03/2025 at 13:17. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

Thank you for allowing Columbia Laboratories to be of service to you, we appreciate your business.

Sincerely,

Derrick Tanner
General Manager



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 25-002195/D001.R000
Report Date: 03/06/2025
ORELAP#: OR100028
Purchase Order: 24013061 / 0006
Project Name: WL Henry
Project No: Elementary School

Sample Results

Sample: 22390800-082DW25A Collected: 3/1/25 08:40 Temp: 22 °C Matrix:
 Lab ID: 25-002195-0001 Received: 3/3/25 13:17 Evidence of Cooling: N Drinking Water

Method: EPA 200.8 in mg/l									
Analyte	Result	Limit	Units	LOQ	Dil.	Batch	Start/Extract	Analyzed	Notes
Lead [±]	2.09	15.000	µg/l	0.2	1.00	2501608		03/06/25 10:06	

Sample Results

Sample: 22390800-083CF25A Collected: 3/1/25 08:40 Temp: 22 °C Matrix:
 Lab ID: 25-002195-0002 Received: 3/3/25 13:17 Evidence of Cooling: N Drinking Water

Method: EPA 200.8 in mg/l									
Analyte	Result	Limit	Units	LOQ	Dil.	Batch	Start/Extract	Analyzed	Notes
Lead [±]	4.85	15.000	µg/l	0.2	1.00	2501608		03/06/25 10:07	

Units of Measure

µg/l = micrograms per liter

Abbreviations

LOQ Limit of quantification

[±] = TNI accredited analyte.



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 25-002195/D001.R000
Report Date: 03/06/2025
ORELAP#: OR100028
Purchase Order: 24013061 / 0006
Project Name: WL Henry
Project No: Elementary School



Chain of Custody

PBS-Engineering
 Environmental-1741021264

Company Details Company: <u>PBS Engineering & Environmental</u> Contact: <u>Dale Voeller</u> Street Address: <u>4412 S Cortett Avenue</u> City, State, Zip: <u>Portland, OR 97239</u> Email: <u>dale.voeller@pbsusa.com</u> Contact Phone: <u>503 515-4726</u> Billing Information Billing Email: <u>accountspayable@pbsusa.com</u>		Project Details Compliance: <u>Compliance</u> Turnaround Time: <u>3 Business Days (Surcharges Apply)</u> Sample Relinquishment Options: <u>Drop Off at Laboratory</u> Project Name / ID: <u>WL Henry Elementary School</u> PO Number: <u>24013061 / 0006</u> Sample(s) Collected By: <u>Dale Voeller</u> Receipt Information Evidence of Cooling?: <u>No</u> Sample Condition: <u>Satisfactory</u> Prelog Storage: <u>R99</u>		Testing E2008Pb - Lead in DV - Schools/Childcare	Bottles 250ml Poly HNO3	
#	Material	Sample Name / FieldID	Collection Date	Collection Time		
1	Drinking Water	22390800-082DW25A	03/01/2025	8:40 AM	✓	B0014
2	Drinking Water	22390800-083CF25A	03/01/2025	8:40 AM	✓	B0014

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	IR Therm. CL #
Dale Voeller	03/03/2025	09:01	Dwe	03/03/2025	13:17	22	CL-0530

ID	Admin Submission Comment(s)	Name	Date/Time
1	Sample 2 L# B0014	DWE	03/03/2025 13:18

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
 12423 NE Whitaker Way
 Portland, OR 97230

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info@columbialaboratories.com

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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 25-002195/D001.R000
Report Date: 03/06/2025
ORELAP#: OR100028
Purchase Order: 24013061 / 0006
Project Name: WL Henry
Project No: Elementary School

Case Narrative

No Case Narrative notes to report.

WL Henry Elementary School
Laboratory Analytical Reports

Gymnasium



ANALYTICAL REPORT

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

Tuesday, January 14, 2025

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

RE: A4L1770 - Hillsboro School District - WL Henry ES/24013061

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 A4L1770, which was received by the laboratory on 12/27/2024 at 2:04:00PM.

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, or by phone at 503-718-2323.

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

Cooler Receipt Information		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	17.0	degC

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

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



Apex Laboratories

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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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1770 - 01 14 25 1115
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390804-001WB24A	A4L1770-01	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-002DW24A	A4L1770-02	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-003DW24A	A4L1770-03	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-004BF24A	A4L1770-04	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-005BF24A	A4L1770-05	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-006BF24A	A4L1770-06	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-007BF24A	A4L1770-07	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390804-008BF24A	A4L1770-08	Drinking Water	12/21/24 00:00	12/27/24 14:04

Apex Laboratories

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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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1770 - 01 14 25 1115
--	--	---

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
22390804-001WB24A (A4L1770-01)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:05	EPA 200.8	
22390804-002DW24A (A4L1770-02)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:07	EPA 200.8	
22390804-003DW24A (A4L1770-03)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:09	EPA 200.8	
22390804-004BF24A (A4L1770-04)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:11	EPA 200.8	
22390804-005BF24A (A4L1770-05)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:13	EPA 200.8	
22390804-006BF24A (A4L1770-06)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:15	EPA 200.8	
22390804-007BF24A (A4L1770-07)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:16	EPA 200.8	
22390804-008BF24A (A4L1770-08)				Matrix: Drinking Water				
<u>Batch: 25A0378</u>								
Lead	ND	---	0.200	ug/L	1	01/13/25 18:27	EPA 200.8	

Apex Laboratories

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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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1770 - 01 14 25 1115
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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
Batch 25A0332 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0332-BLK1)		Prepared: 01/10/25 14:38 Analyzed: 01/13/25 16:17										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0332-BS1)		Prepared: 01/10/25 14:38 Analyzed: 01/13/25 16:19										
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	---	108	85 - 115%	---	---	---
Matrix Spike (25A0332-MS2)		Prepared: 01/10/25 14:38 Analyzed: 01/13/25 18:18										
<u>QC Source Sample: 22390804-007BF24A (A4L1770-07)</u>												
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	ND	103	70 - 130%	---	---	---
Batch 25A0378 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0378-BLK1)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 18:24										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0378-BS1)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 18:26										
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	---
Duplicate (25A0378-DUP1)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 18:29										
<u>QC Source Sample: 22390804-008BF24A (A4L1770-08)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	0.136	---	---	***	20%	---
Matrix Spike (25A0378-MS1)		Prepared: 01/13/25 10:04 Analyzed: 01/13/25 18:31										
<u>QC Source Sample: 22390804-008BF24A (A4L1770-08)</u>												
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	0.136	104	70 - 130%	---	---	---

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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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1770 - 01 14 25 1115
---	---	---

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: 25A0332</u>							
A4L1770-01	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1770-02	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1770-03	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1770-04	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1770-05	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1770-06	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1770-07	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
<u>Batch: 25A0378</u>							
A4L1770-08	Drinking Water	EPA 200.8	12/21/24 00:00	01/13/25 10:04	10mL/10mL	10mL/10mL	1.00

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--	--	--

QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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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 one half of the Reporting Limit (RL).
 Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
 -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.

Apex Laboratories

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Jason Woodcock, Project Manager



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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: **Hillsboro School District**

Project Number: **WL Henry ES/24013061**

Project Manager: **Dale Voeller**

Report ID:

A4L1770 - 01 14 25 1115

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.

Benzofluoranthene Isomer Reporting:

Due to coelutions present on the analytical column, the results reported for Benzo(b+j)fluoranthene(s) represent the concentration of both the Benzo(b)fluoranthene and Benzo(j)fluoranthene isomers. Calibration, validation and accreditation are based on the Benzo(b)fluoranthene isomer.

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Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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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

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Hillsboro School District), and Report ID (A4L1770 - 01 14 25 1115).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

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

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Handwritten signature of Jason Woodcock

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---	---	---



Lead in Drinking Water Testing Program

Date Collected: 12/21/2024

School Name: WL Henry Elementary School

Building: Gymnasium

Analysis Requested: Lead (Pb) in Drinking Water

Relinquished By/Signature: *Dale Voeller*

Received By/Signature: *ghw* APEX LABS

Email Results To: voeller@pbsusa.com

A4L1770

HILLSBORO SCHOOL DISTRICT

PBS Project: 24013061/0006

Building Number: 22390804

Date/Time: 12/23/24 @ 12:20 PM

Date/Time: 12/27/24 1404

Turnaround Time: 10 - Day

#	Fixture Number	Sample Number	Room / Location	Description
1	001	22390804-001WB24A	Lobby – water bottle filler	
2	002	22390804-002DW24A	Lobby – drinking fountain, left	
3	003	22390804-003DW24A	Lobby – drinking fountain, right	
4	004	22390804-004BF24A	Restroom sink faucets, left to right (1)	
5	005	22390804-005BF24A	Restroom sink faucets, left to right (2)	
6	006	22390804-006BF24A	Restroom sink faucets, left to right (3)	
7	007	22390804-007BF24A	Restroom sink faucets, left to right (4)	
8	008	22390804-008BF24A	Private restroom sink faucet	
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

1 of 1

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: WL Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1770 - 01 14 25 1115
--	--	---

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4L1770

Project/Project #: WL Henry Elementary School 24013061/0006
Gymnasium 22390804

Delivery Info:
Date/time received: 12/27/24 @ 1404 By: EST

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

From USDA Regulated Origin? Yes No

Cooler Inspection Date/time inspected: 12/27/24 @ 1427 By: EST

Chain of Custody included? Yes No

Signed/dated by client? Yes No

Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>17.0</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>NA</u>						
Ice type: (Gel/Real/Other)	<u>NA</u>						
Condition (In/Out):	<u>OUT</u>						

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

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

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 12/29/24 @ 1636 By: JA

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 pH ID: AL31192

Comments: _____

Comments: _____

Comments: _____

Comments: _____

Labeled by: JA Witness: WJ Cooler Inspected by: JA

Form Y-003 R-02

Apex Laboratories

Jason Woodcock, Project Manager

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WL Henry Elementary School
Laboratory Analytical Reports

Modular Classroom



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, January 14, 2025

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

RE: A4L1767 - Hillsboro School District - W.L. Henry ES/24013061

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 A4L1767, which was received by the laboratory on 12/27/2024 at 2:04:00PM.

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, or by phone at 503-718-2323.

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

Cooler Receipt Information		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	17.0	degC

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

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



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Jason Woodcock, Project Manager



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---	---	--

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390803-001BF24A	A4L1767-01	Drinking Water	12/21/24 00:00	12/27/24 14:04
22390803-002BF24A	A4L1767-02	Drinking Water	12/21/24 00:00	12/27/24 14:04

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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
22390803-001BF24A (A4L1767-01)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	0.371	---	0.200	ug/L	1	01/13/25 16:36	EPA 200.8	
22390803-002BF24A (A4L1767-02)				Matrix: Drinking Water				
<u>Batch: 25A0332</u>								
Lead	0.323	---	0.200	ug/L	1	01/13/25 16:38	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 Limits	RPD	RPD Limit	Notes
Batch 25A0332 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0332-BLK1)		Prepared: 01/10/25 14:38 Analyzed: 01/13/25 16:17										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (25A0332-BS1)		Prepared: 01/10/25 14:38 Analyzed: 01/13/25 16:19										
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	---	108	85 - 115%	---	---	---

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

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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: 25A0332</u>							
A4L1767-01	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00
A4L1767-02	Drinking Water	EPA 200.8	12/21/24 00:00	01/10/25 14:38	10mL/10mL	10mL/10mL	1.00

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QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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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 one half of the Reporting Limit (RL).
 Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
 -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.

Apex Laboratories

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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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Hillsboro School District</u> Project Number: W.L. Henry ES/24013061 Project Manager: Dale Voeller	Report ID: A4L1767 - 01 14 25 1103
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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.

Benzofluoranthene Isomer Reporting:

Due to coelutions present on the analytical column, the results reported for Benzo(b+j)fluoranthene(s) represent the concentration of both the Benzo(b)fluoranthene and Benzo(j)fluoranthene isomers. Calibration, validation and accreditation are based on the Benzo(b)fluoranthene isomer.

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PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **W.L. Henry ES/24013061**

Project Manager: **Dale Voeller**

Report ID:

A4L1767 - 01 14 25 1103

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

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Jason Woodcock, Project Manager



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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Hillsboro School District), and Report ID (A4L1767 - 01 14 25 1103).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

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

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Handwritten signature of Jason Woodcock

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Lead in Drinking Water Testing Program

Date Collected: 12/21/2024

School Name: W. L. Henry Elementary School

Building: Modular

Analysis Requested: Lead (Pb) in Drinking Water

Relinquished By/Signature: *Dale Voeller*

Received By/Signature: *GW APEX LABS*

Email Results To: voeller@pbsusa.com

A4L1767

HILLSBORO SCHOOL DISTRICT

PBS Project: 24013061 / 0006

Building Number: 22390803

Date/Time: 12/23/24 @ 11:57 AM

Date/Time: 12/27/24 1404

Turnaround Time: 10 - Day

Sample Data Form				
	Fixture Number	Sample Number	Room / Location	Fixture Type
1	001	22390803-001BF24A	Mens restroom sink faucet	
2	002	22390803-002BF24A	Womens restroom sink faucet	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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14				
15				
16				
17				
18				
19				
20				

1 of 1

Apex Laboratories

Jason Woodcock, Project Manager

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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4 21767
Project/Project #: W.L. Henry Elementary School - Modular 24013061/000
22390803

Delivery Info:
 Date/time received: 12/27/24 @ 1404 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

From USDA Regulated Origin? Yes No
Cooler Inspection Date/time inspected: 12/27/24 @ 1427 By: EST

Chain of Custody included? Yes No
 Signed/dated by client? Yes No
 Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>17.0</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>NA</u>						
Ice type: (Gel/Real/Other)	<u>NA</u>						
Condition (In/Out):	<u>OUT</u>						

Cooler out of temp? (Y/N) Possible reason why: Drank My Water
 Green dots applied to out of temperature samples? Yes/No
 Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 12/27/24 @ 1606 By: JA
 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 pH ID: A23172
 Comments: _____

Labeled by: JA Witness: [Signature] Cooler Inspected by: JA
 Form Y-003 R-02