



August 15, 2023

Adam Stewart
Hillsboro School District
4901 SE Witch Hazel Road
Hillsboro, Oregon 97123

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

Regarding: Drinking Water Sampling Report
 Tamarack Elementary School
 7201 SE Kinnaman Street
 Hillsboro, OR 97007
 PBS Project 23440.171

Dear Mr. Stewart:

On July 29, 2023, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the newly constructed Tamarack Elementary School in Hillsboro, Oregon. The testing was requested by the 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).

The pot filler faucet in the kitchen was not fully installed at the time of testing. This fixture will be tested when installation is complete.

One hundred twelve samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon for lead analysis. All samples analyzed below 15 ppb of lead. The following table lists the results of the analysis.

Fixture Number	Sample Number	Round 1 – July 29, 2023 Location / Room No.	Results (ppb)
001	22393700-001NS23A	Health Room sink	0.341
002	22393700-002BF23A	Health Room restroom	0.512
003	22393700-003SF23A	Staff break room sink	0.536
004	22393700-004BF23A	Main office staff restroom	0.383
005	22393700-005DW23A	Room 104 drinking fountain	0.623
006	22393700-006CF23A	Room 104 classroom faucet	0.901
007	22393700-007BF23A	Room 104 restroom faucet	0.750
008	22393700-008DW23A	Room 105 drinking fountain	0.917
009	22393700-009CF23A	Room 105 classroom faucet	1.15
010	22393700-010SF23A	Room 136 (Speech) sink faucet	1.03
011	22393700-011SF23A	Room 133 (Mother's Room) sink faucet	0.268
012	22393700-012BF23A	Main entry restroom	0.839
013	22393700-013SF23A	Media Center workroom sink faucet	0.243

Fixture Number	Sample Number	Round 1 – July 29, 2023	
		Location / Room No.	Results (ppb)
014	22393700-014CF23A	Room 108 (STEAM Lab) left sink faucet	0.236
015	22393700-015CF23A	Room 108 (STEAM Lab) right sink faucet	0.460
016	22393700-016CF23A	West commons area sink faucet	0.666
017	22393700-017DW23A	Room 109 drinking fountain	0.475
018	22393700-018CF23A	Room 109 classroom faucet	2.14
019	22393700-019DW23A	Room 110 drinking fountain	1.45
020	22393700-020CF23A	Room 110 classroom faucet	1.43
021	22393700-021DW23A	Room 111 drinking fountain	0.614
022	22393700-022CF23A	Room 111 classroom faucet	1.91
023	22393700-023DW23A	Room 112 drinking fountain	0.560
024	22393700-024CF23A	Room 112 classroom faucet	0.775
025	22393700-025BF23A	Room 112 restroom faucet	0.936
026	22393700-026DW23A	Room 113 drinking fountain	0.508
027	22393700-027CF23A	Room 113 classroom faucet	1.16
028	22393700-028BF23A	Room 113 restroom faucet	0.528
029	22393700-029DW23A	Room 114 drinking fountain	0.696
030	22393700-030CF23A	Room 114 classroom faucet	1.55
031	22393700-031BF23A	Room 114 restroom faucet	1.02
032	22393700-032CF23A	Room 115 left sink faucet	0.316
033	22393700-033DW23A	Room 115 right sink drinking fountain	0.561
034	22393700-034CF23A	Room 115 right sink faucet	ND
035	22393700-035BF23A	Room 115 restroom sink faucet	0.707
036	22393700-036BF23A	West end gang restroom sink faucets – left to right (1)	0.385
037	22393700-037BF23A	West end gang restroom sink faucets – left to right (2)	0.287
038	22393700-038BF23A	West end gang restroom sink faucets – left to right (3)	0.392
039	22393700-039BF23A	West end gang restroom sink faucets – left to right (4)	0.302
040	22393700-040BF23A	West end gang restroom sink faucets – left to right (5)	0.482
041	22393700-041BF23A	West end gang restroom sink faucets – left to right (6)	ND
042	22393700-042BF23A	West end gang restroom sink faucets – left to right (7)	0.484
043	22393700-043BF23A	West end gang restroom sink faucets – left to right (8)	0.238
044	22393700-044BF23A	West ADA restrooms at stairs – left restroom sink faucet	0.852
045	22393700-045BF23A	West ADA restrooms at stairs – right restroom sink faucet	0.605
046	22393700-046BF23A	West end single ADA restroom	0.787
047	22393700-047BF23A	Kitchen hallway ADA restroom sink faucet	0.797
048	No Sample	FIXTURE NOT WORKING -Kitchen pot filler faucet	
049	22393700-049KF23A	Kitchen, north single prep sink faucet	1.11
050	22393700-050KF23A	Kitchen, west double prep sink faucet	1.30
051	22393700-051KF23A	Kitchen, west double prep sink sprayer	2.27
052	22393700-052KF23A	Kitchen, triple sanitizing sink – left faucet	0.615
053	22393700-053KF23A	Kitchen, triple sanitizing sink – right faucet	0.631
054	22393700-054KF23A	Kitchen, dish drop room – left sink faucet	0.739

Fixture Number	Sample Number	Round 1 – July 29, 2023	
		Location / Room No.	Results (ppb)
055	22393700-055KF23A	Kitchen, dish drop room – right sink faucet	0.354
056	22393700-056WB23A	Cafeteria water bottle filler	ND
057	22393700-057DW23A	Cafeteria drinking fountain – left	ND
058	22393700-058DW23A	Cafeteria drinking fountain - right	ND
059	22393700-059DW23A	Main hall at Music Room entrance – left drinking fountain	ND
060	22393700-060DW23A	Main hall at Music Room entrance – right drinking fountain	ND
061	22393700-061DW23A	Room 175 (Music Room) drinking fountain	0.600
062	22393700-062CF23A	Room 175 (Music Room) sink faucet	2.55
063	22393700-063DW23A	2 nd Floor drinking fountains east of elevator - left	ND
064	22393700-064DW23A	2 nd Floor drinking fountains east of elevator - right	ND
065	22393700-065BF23A	2 nd Floor east gang restrooms – left to right (1)	0.713
066	22393700-066BF23A	2 nd Floor east gang restrooms – left to right (2)	0.335
067	22393700-067BF23A	2 nd Floor east gang restrooms – left to right (3)	0.262
068	22393700-068BF23A	2 nd Floor east gang restrooms – left to right (4)	0.257
069	22393700-069BF23A	2 nd Floor east gang restrooms – left to right (5)	0.429
070	22393700-070BF23A	2 nd Floor east gang restrooms – left to right (6)	ND
071	22393700-071CF23A	2 nd Floor east common area sink faucet	0.381
072	22393700-072DW23A	Room 202 drinking fountain	0.706
073	22393700-073CF23A	Room 202 classroom faucet	1.31
074	22393700-074DW23A	Room 201 drinking fountain	1.57
075	22393700-075CF23A	Room 201 classroom faucet	1.45
076	22393700-076DW23A	Room 203 drinking fountain	0.553
077	22393700-077CF23A	Room 203 classroom faucet	ND
078	22393700-078DW23A	Room 204 drinking fountain	1.32
079	22393700-079CF23A	Room 204 classroom faucet	1.54
080	22393700-080DW23A	Room 205 drinking fountain	0.232
081	22393700-081CF23A	Room 205 classroom faucet	1.38
082	22393700-082DW23A	Room 206 drinking fountain	0.605
083	22393700-083CF23A	Room 206 classroom faucet	1.30
084	22393700-084DW23A	Room 207 drinking fountain	1.31
085	22393700-085CF23A	Room 207 classroom faucet	1.26
086	22393700-086DW23A	Room 208 drinking fountain	0.501
087	22393700-087CF23A	Room 208 classroom faucet	1.35
088	22393700-088DW23A	Room 209 drinking fountain	0.981
089	22393700-089CF23A	Room 209 classroom faucet	1.15
090	22393700-090CF23A	2 nd Floor center common area sink faucet	0.618
091	22393700-091DW23A	Room 210 drinking fountain	0.794
092	22393700-092CF23A	Room 210 classroom faucet	1.11
093	22393700-093DW23A	Room 211 drinking fountain	1.81
094	22393700-094CF23A	Room 211 classroom faucet	1.20
095	22393700-095DW23A	Room 212 drinking fountain	1.41

Fixture Number	Sample Number	Round 1 – July 29, 2023	Results (ppb)
		Location / Room No.	
096	22393700-096CF23A	Room 212 classroom faucet	0.762
097	22393700-097CF23A	2 nd Floor west common area sink faucet	0.368
098	22393700-098DW23A	Room 213 drinking fountain	2.88
099	22393700-099CF23A	Room 213 classroom faucet	2.39
100	22393700-100DW23A	Room 214 drinking fountain	1.28
101	22393700-101CF23A	Room 214 classroom faucet	1.19
102	22393700-102DW23A	Room 215 drinking fountain	0.457
103	22393700-103CF23A	Room 215 classroom faucet	1.79
104	22393700-104DW23A	Room 216 drinking fountain	0.733
105	22393700-105CF23A	Room 216 classroom faucet	2.44
106	22393700-106BF23A	2 nd Floor west end ADA restrooms - left	0.962
107	22393700-107BF23A	2 nd Floor west end ADA restrooms - right	0.734
108	22393700-108BF23A	2 nd Floor west gang restrooms – left to right (1)	1.09
109	22393700-109BF23A	2 nd Floor west gang restrooms – left to right (2)	ND
110	22393700-110BF23A	2 nd Floor west gang restrooms – left to right (3)	0.248
111	22393700-111BF23A	2 nd Floor west gang restrooms – left to right (4)	0.413
112	22393700-112BF23A	2 nd Floor west gang restrooms – left to right (5)	0.400
113	22393700-113BF23A	2 nd Floor west gang restrooms – left to right (6)	0.397

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 (µg/L), a unit of measure that is equivalent to ppb.

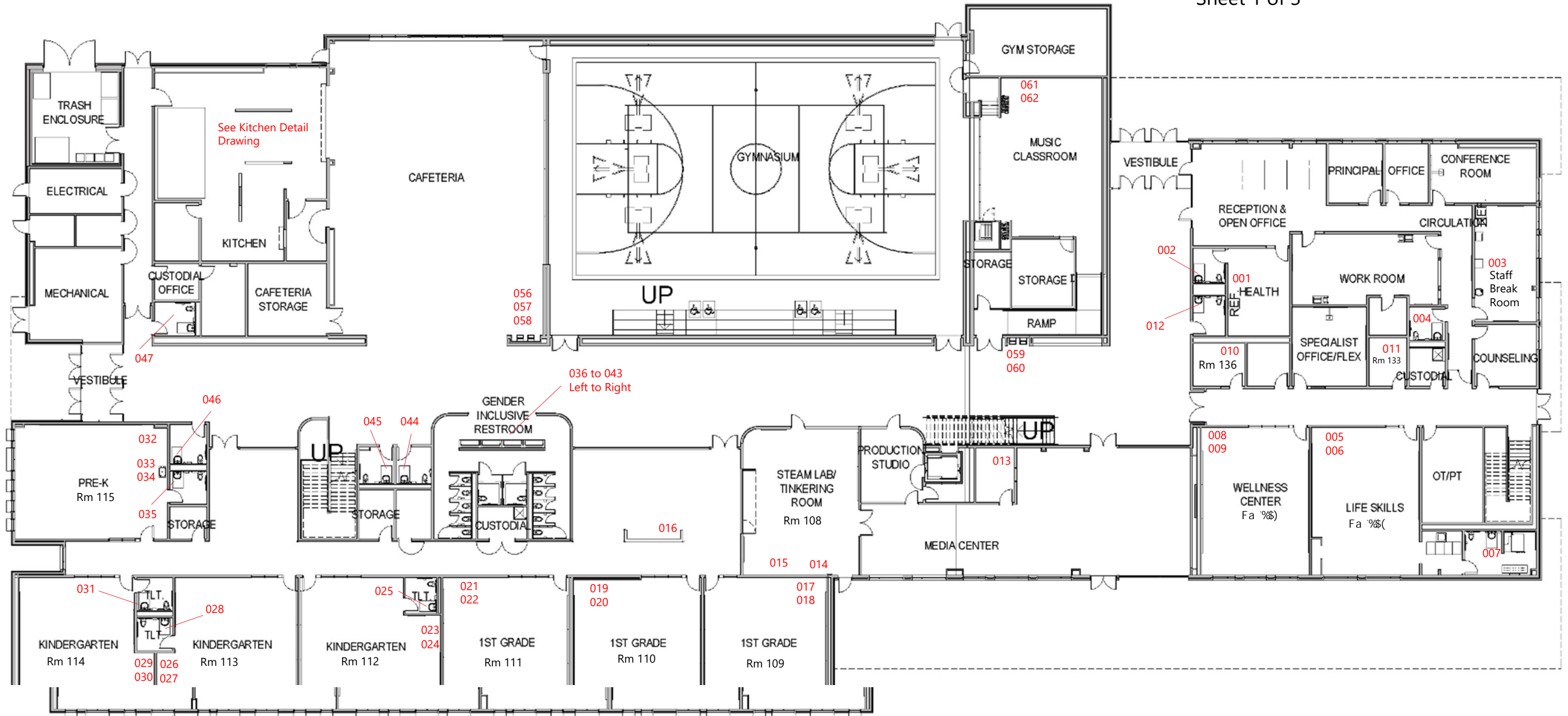
Sampling methodology and the interpretation of laboratory results were based on the Environmental Protection Agency guidance document titled *3Ts for Reducing Lead in Drinking Water in Schools*. Following this guideline, PBS collected first draw samples from each test location. First draw samples consist 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.

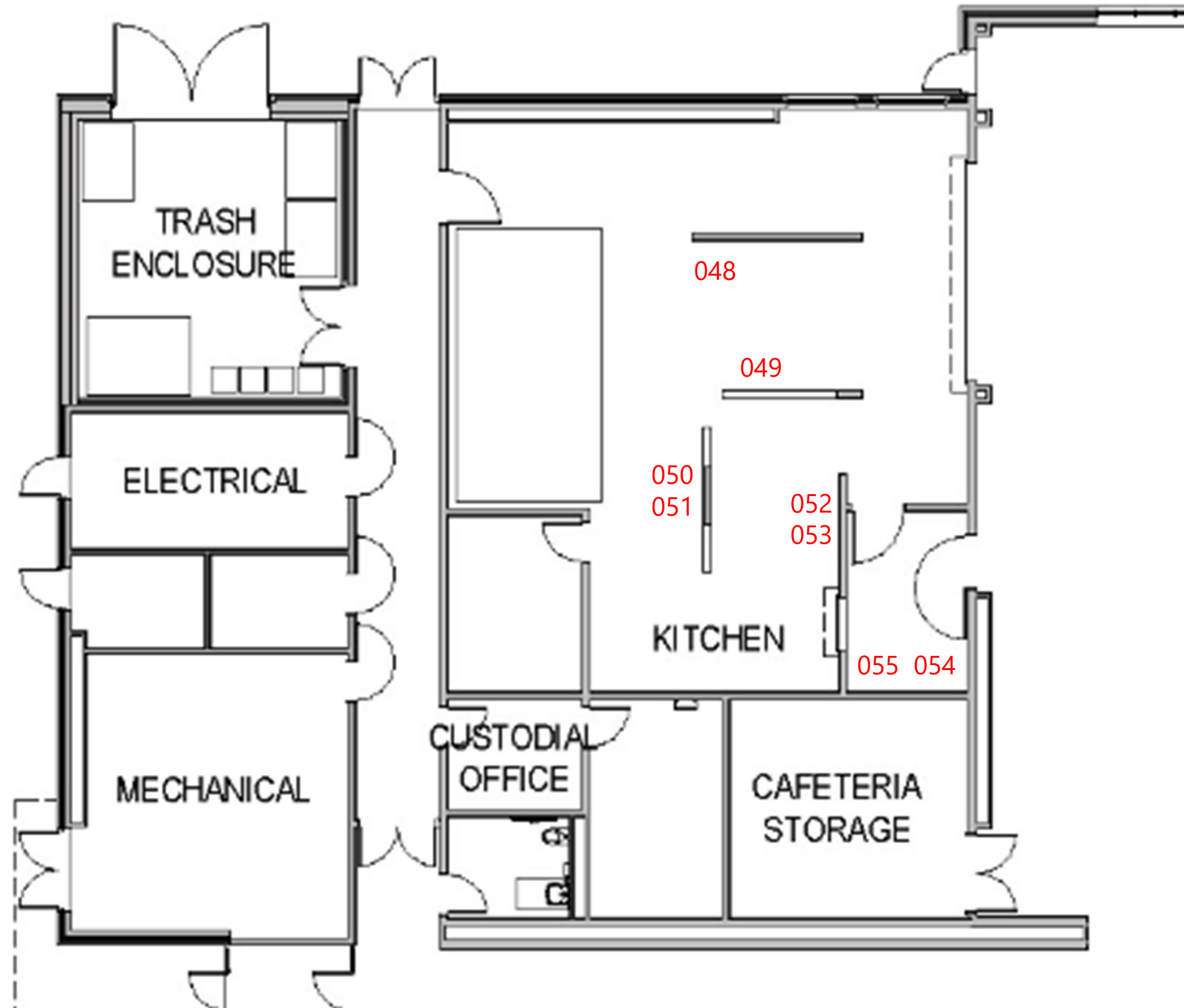
Sincerely,

Dale Voeller, CHMM, CSP
Senior Project Manager

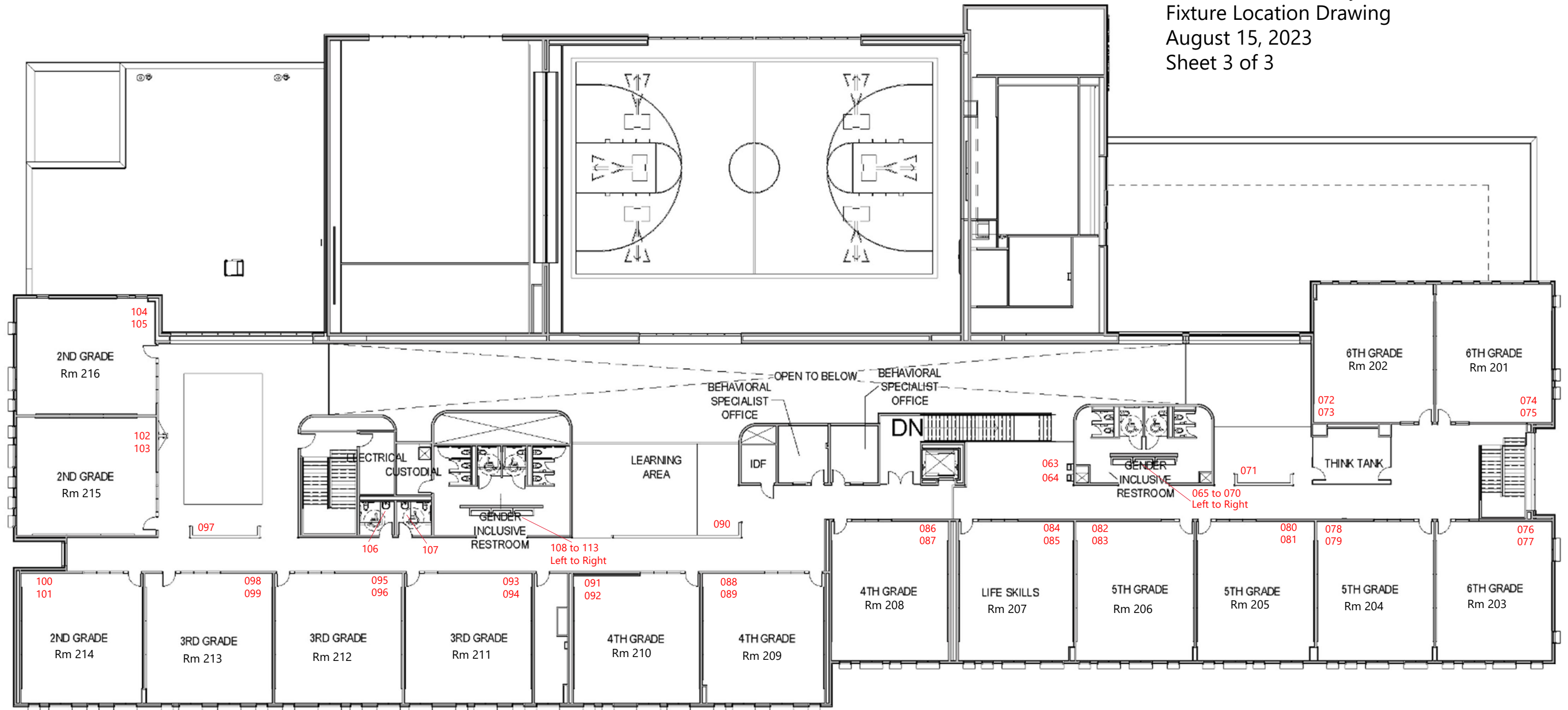
Attachments: Sample Location Drawings
Laboratory Analytical Report



First Floor



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2nd Floor



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, August 15, 2023

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

RE: A3H0674 - Hillsboro School District - Tamarack ES/23440.171

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 A3H0674, which was received by the laboratory on 7/31/2023 at 12:10:00PM.

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

(See Cooler Receipt Form for details)

Default Cooler 21.9 degC

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

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



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22393700-001NS23A	A3H0674-01	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-002BF23A	A3H0674-02	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-003SF23A	A3H0674-03	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-004BF23A	A3H0674-04	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-005DW23A	A3H0674-05	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-006CF23A	A3H0674-06	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-007BF23A	A3H0674-07	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-008DW23A	A3H0674-08	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-009CF23A	A3H0674-09	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-010SF23A	A3H0674-10	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-011SF23A	A3H0674-11	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-012BF23A	A3H0674-12	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-013SF23A	A3H0674-13	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-014CF23A	A3H0674-14	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-015CF23A	A3H0674-15	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-016CF23A	A3H0674-16	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-017DW23A	A3H0674-17	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-018CF23A	A3H0674-18	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-019DW23A	A3H0674-19	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-020CF23A	A3H0674-20	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-021DW23A	A3H0674-21	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-022CF23A	A3H0674-22	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-023DW23A	A3H0674-23	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-024CF23A	A3H0674-24	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-025BF23A	A3H0674-25	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-026DW23A	A3H0674-26	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-027CF23A	A3H0674-27	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-028BF23A	A3H0674-28	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-029DW23A	A3H0674-29	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-030CF23A	A3H0674-30	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-031BF23A	A3H0674-31	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-032CF23A	A3H0674-32	Drinking Water	07/29/23 00:00	07/31/23 12:10

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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22393700-033DW23A	A3H0674-33	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-034CF23A	A3H0674-34	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-035BF23A	A3H0674-35	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-036BF23A	A3H0674-36	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-037BF23A	A3H0674-37	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-038BF23A	A3H0674-38	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-039BF23A	A3H0674-39	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-040BF23A	A3H0674-40	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-041BF23A	A3H0674-41	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-042BF23A	A3H0674-42	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-043BF23A	A3H0674-43	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-044BF23A	A3H0674-44	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-045BF23A	A3H0674-45	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-046BF23A	A3H0674-46	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-047BF23A	A3H0674-47	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-049KF23A	A3H0674-48	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-050KF23A	A3H0674-49	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-051KF23A	A3H0674-50	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-052KF23A	A3H0674-51	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-053KF23A	A3H0674-52	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-054KF23A	A3H0674-53	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-055KF23A	A3H0674-54	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-056WB23A	A3H0674-55	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-057DW23A	A3H0674-56	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-058DW23A	A3H0674-57	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-059DW23A	A3H0674-58	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-060DW23A	A3H0674-59	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-061DW23A	A3H0674-60	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-062CF23A	A3H0674-61	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-063DW23A	A3H0674-62	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-064DW23A	A3H0674-63	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-065BF23A	A3H0674-64	Drinking Water	07/29/23 00:00	07/31/23 12:10

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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22393700-066BF23A	A3H0674-65	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-067BF23A	A3H0674-66	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-068BF23A	A3H0674-67	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-069BF23A	A3H0674-68	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-070BF23A	A3H0674-69	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-071CF23A	A3H0674-70	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-072DW23A	A3H0674-71	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-073CF23A	A3H0674-72	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-074DW23A	A3H0674-73	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-075CF23A	A3H0674-74	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-076DW23A	A3H0674-75	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-077CF23A	A3H0674-76	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-078DW23A	A3H0674-77	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-079CF23A	A3H0674-78	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-080DW23A	A3H0674-79	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-081CF23A	A3H0674-80	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-082DW23A	A3H0674-81	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-083CF23A	A3H0674-82	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-084DW23A	A3H0674-83	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-085CF23A	A3H0674-84	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-086DW23A	A3H0674-85	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-087CF23A	A3H0674-86	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-088DW23A	A3H0674-87	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-089CF23A	A3H0674-88	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-090CF23A	A3H0674-89	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-091DW23A	A3H0674-90	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-092CF23A	A3H0674-91	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-093DW23A	A3H0674-92	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-094CF23A	A3H0674-93	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-095DW23A	A3H0674-94	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-096CF23A	A3H0674-95	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-097CF23A	A3H0674-96	Drinking Water	07/29/23 00:00	07/31/23 12:10

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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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22393700-098DW23A	A3H0674-97	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-099CF23A	A3H0674-98	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-100DW23A	A3H0674-99	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-101CF23A	A3H0674-AA	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-102DW23A	A3H0674-AB	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-103CF23A	A3H0674-AC	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-104DW23A	A3H0674-AD	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-105CF23A	A3H0674-AE	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-106BF23A	A3H0674-AF	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-107BF23A	A3H0674-AG	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-108BF23A	A3H0674-AH	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-109BF23A	A3H0674-AI	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-110BF23A	A3H0674-AJ	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-111BF23A	A3H0674-AK	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-112BF23A	A3H0674-AL	Drinking Water	07/29/23 00:00	07/31/23 12:10
22393700-113BF23A	A3H0674-AM	Drinking Water	07/29/23 00:00	07/31/23 12:10

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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
22393700-001NS23A (A3H0674-01)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.341	---	0.200	ug/L	1	08/09/23 13:48	EPA 200.8	
22393700-002BF23A (A3H0674-02)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.512	---	0.200	ug/L	1	08/09/23 13:52	EPA 200.8	
22393700-003SF23A (A3H0674-03)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.536	---	0.200	ug/L	1	08/09/23 13:54	EPA 200.8	
22393700-004BF23A (A3H0674-04)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.383	---	0.200	ug/L	1	08/09/23 13:55	EPA 200.8	
22393700-005DW23A (A3H0674-05)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.623	---	0.200	ug/L	1	08/09/23 13:56	EPA 200.8	
22393700-006CF23A (A3H0674-06)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.901	---	0.200	ug/L	1	08/09/23 13:58	EPA 200.8	
22393700-007BF23A (A3H0674-07)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.750	---	0.200	ug/L	1	08/09/23 14:02	EPA 200.8	
22393700-008DW23A (A3H0674-08)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.917	---	0.200	ug/L	1	08/09/23 14:04	EPA 200.8	
22393700-009CF23A (A3H0674-09)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	1.15	---	0.200	ug/L	1	08/09/23 14:05	EPA 200.8	
22393700-010SF23A (A3H0674-10)				Matrix: Drinking Water				

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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
22393700-010SF23A (A3H0674-10)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	1.03	---	0.200	ug/L	1	08/09/23 14:06	EPA 200.8	
22393700-011SF23A (A3H0674-11)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.268	---	0.200	ug/L	1	08/09/23 14:08	EPA 200.8	
22393700-012BF23A (A3H0674-12)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.839	---	0.200	ug/L	1	08/09/23 14:09	EPA 200.8	
22393700-013SF23A (A3H0674-13)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.243	---	0.200	ug/L	1	08/09/23 14:11	EPA 200.8	
22393700-014CF23A (A3H0674-14)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.236	---	0.200	ug/L	1	08/09/23 14:12	EPA 200.8	
22393700-015CF23A (A3H0674-15)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.460	---	0.200	ug/L	1	08/09/23 14:14	EPA 200.8	
22393700-016CF23A (A3H0674-16)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.666	---	0.200	ug/L	1	08/09/23 14:15	EPA 200.8	
22393700-017DW23A (A3H0674-17)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	0.475	---	0.200	ug/L	1	08/09/23 14:21	EPA 200.8	
22393700-018CF23A (A3H0674-18)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	2.14	---	0.200	ug/L	1	08/09/23 14:22	EPA 200.8	
22393700-019DW23A (A3H0674-19)				Matrix: Drinking Water				

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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
22393700-019DW23A (A3H0674-19)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	1.45	---	0.200	ug/L	1	08/09/23 14:24	EPA 200.8	
22393700-020CF23A (A3H0674-20)				Matrix: Drinking Water				
<u>Batch: 23H0069</u>								
Lead	1.43	---	0.200	ug/L	1	08/09/23 14:25	EPA 200.8	
22393700-021DW23A (A3H0674-21)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.614	---	0.200	ug/L	1	08/09/23 14:31	EPA 200.8	
22393700-022CF23A (A3H0674-22)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	1.91	---	0.200	ug/L	1	08/09/23 14:38	EPA 200.8	
22393700-023DW23A (A3H0674-23)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.560	---	0.200	ug/L	1	08/09/23 14:39	EPA 200.8	
22393700-024CF23A (A3H0674-24)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.775	---	0.200	ug/L	1	08/09/23 14:41	EPA 200.8	
22393700-025BF23A (A3H0674-25)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.936	---	0.200	ug/L	1	08/09/23 14:42	EPA 200.8	
22393700-026DW23A (A3H0674-26)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.508	---	0.200	ug/L	1	08/09/23 14:44	EPA 200.8	
22393700-027CF23A (A3H0674-27)				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	1.16	---	0.200	ug/L	1	08/09/23 14:45	EPA 200.8	
22393700-028BF23A (A3H0674-28)				Matrix: Drinking Water				

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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
22393700-028BF23A (A3H0674-28)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	0.528	---	0.200	ug/L	1	08/09/23 14:46	EPA 200.8	
22393700-029DW23A (A3H0674-29)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	0.696	---	0.200	ug/L	1	08/09/23 14:48	EPA 200.8	
22393700-030CF23A (A3H0674-30)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	1.55	---	0.200	ug/L	1	08/09/23 14:49	EPA 200.8	
22393700-031BF23A (A3H0674-31)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	1.02	---	0.200	ug/L	1	08/09/23 14:51	EPA 200.8	
22393700-032CF23A (A3H0674-32)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	0.316	---	0.200	ug/L	1	08/09/23 14:57	EPA 200.8	
22393700-033DW23A (A3H0674-33)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	0.561	---	0.200	ug/L	1	08/09/23 14:58	EPA 200.8	
22393700-034CF23A (A3H0674-34)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	ND	---	0.200	ug/L	1	08/09/23 14:59	EPA 200.8	
22393700-035BF23A (A3H0674-35)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	0.707	---	0.200	ug/L	1	08/09/23 15:01	EPA 200.8	
22393700-036BF23A (A3H0674-36)				Matrix: Drinking Water				
Batch: 23H0070								
Lead	0.385	---	0.200	ug/L	1	08/09/23 15:02	EPA 200.8	
22393700-037BF23A (A3H0674-37)				Matrix: Drinking Water				

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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
				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.287	---	0.200	ug/L	1	08/09/23 15:04	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.392	---	0.200	ug/L	1	08/09/23 15:05	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.302	---	0.200	ug/L	1	08/09/23 15:07	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0070</u>								
Lead	0.482	---	0.200	ug/L	1	08/09/23 15:08	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 18:53	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	0.484	---	0.200	ug/L	1	08/09/23 18:57	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	0.238	---	0.200	ug/L	1	08/09/23 18:58	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	0.852	---	0.200	ug/L	1	08/09/23 19:00	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	0.605	---	0.200	ug/L	1	08/09/23 19:01	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	0.605	---	0.200	ug/L	1	08/09/23 19:01	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
22393700-046BF23A (A3H0674-46)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	0.787	---	0.200	ug/L	1	08/09/23 19:03	EPA 200.8	
22393700-047BF23A (A3H0674-47)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	0.797	---	0.200	ug/L	1	08/09/23 19:07	EPA 200.8	
22393700-049KF23A (A3H0674-48)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	1.11	---	0.200	ug/L	1	08/09/23 19:08	EPA 200.8	
22393700-050KF23A (A3H0674-49)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	1.30	---	0.200	ug/L	1	08/09/23 19:10	EPA 200.8	
22393700-051KF23A (A3H0674-50)				Matrix: Drinking Water				
Batch: 23H0405								
Lead	2.27	---	0.222	ug/L	1	08/10/23 21:21	EPA 200.8	DW-D
22393700-052KF23A (A3H0674-51)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	0.615	---	0.200	ug/L	1	08/09/23 19:11	EPA 200.8	
22393700-053KF23A (A3H0674-52)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	0.631	---	0.200	ug/L	1	08/09/23 19:13	EPA 200.8	
22393700-054KF23A (A3H0674-53)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	0.739	---	0.200	ug/L	1	08/09/23 19:14	EPA 200.8	
22393700-055KF23A (A3H0674-54)				Matrix: Drinking Water				
Batch: 23H0121								
Lead	0.354	---	0.200	ug/L	1	08/09/23 19:16	EPA 200.8	
22393700-056WB23A (A3H0674-55)				Matrix: Drinking Water				

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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
22393700-056WB23A (A3H0674-55)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:17	EPA 200.8	
22393700-057DW23A (A3H0674-56)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:18	EPA 200.8	
22393700-058DW23A (A3H0674-57)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:20	EPA 200.8	
22393700-059DW23A (A3H0674-58)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:26	EPA 200.8	
22393700-060DW23A (A3H0674-59)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:27	EPA 200.8	
22393700-061DW23A (A3H0674-60)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	0.600	---	0.200	ug/L	1	08/09/23 19:28	EPA 200.8	
22393700-062CF23A (A3H0674-61)				Matrix: Drinking Water				
<u>Batch: 23H0121</u>								
Lead	2.55	---	0.200	ug/L	1	08/09/23 19:30	EPA 200.8	
22393700-063DW23A (A3H0674-62)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:36	EPA 200.8	
22393700-064DW23A (A3H0674-63)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:45	EPA 200.8	
22393700-065BF23A (A3H0674-64)				Matrix: Drinking Water				

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ANALYTICAL REPORT

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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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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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
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.713	---	0.200	ug/L	1	08/09/23 19:47	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.335	---	0.200	ug/L	1	08/09/23 19:48	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.262	---	0.200	ug/L	1	08/09/23 19:49	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0405</u>								
Lead	0.257	---	0.222	ug/L	1	08/10/23 21:35	EPA 200.8	DW-D
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.429	---	0.200	ug/L	1	08/09/23 19:51	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 19:52	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.381	---	0.200	ug/L	1	08/09/23 19:54	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.706	---	0.200	ug/L	1	08/09/23 19:55	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.31	---	0.200	ug/L	1	08/09/23 19:57	EPA 200.8	
				Matrix: Drinking Water				

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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
22393700-074DW23A (A3H0674-73)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.57	---	0.200	ug/L	1	08/09/23 19:58	EPA 200.8	
22393700-075CF23A (A3H0674-74)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.45	---	0.200	ug/L	1	08/09/23 20:02	EPA 200.8	
22393700-076DW23A (A3H0674-75)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.553	---	0.200	ug/L	1	08/09/23 20:04	EPA 200.8	
22393700-077CF23A (A3H0674-76)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 20:05	EPA 200.8	
22393700-078DW23A (A3H0674-77)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.32	---	0.200	ug/L	1	08/09/23 20:07	EPA 200.8	
22393700-079CF23A (A3H0674-78)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.54	---	0.200	ug/L	1	08/09/23 20:08	EPA 200.8	
22393700-080DW23A (A3H0674-79)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.232	---	0.200	ug/L	1	08/09/23 20:10	EPA 200.8	
22393700-081CF23A (A3H0674-80)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.38	---	0.200	ug/L	1	08/09/23 20:11	EPA 200.8	
22393700-082DW23A (A3H0674-81)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	0.605	---	0.200	ug/L	1	08/09/23 20:12	EPA 200.8	
22393700-083CF23A (A3H0674-82)				Matrix: Drinking Water				

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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
22393700-083CF23A (A3H0674-82)				Matrix: Drinking Water				
<u>Batch: 23H0164</u>								
Lead	1.30	---	0.200	ug/L	1	08/09/23 20:14	EPA 200.8	
22393700-084DW23A (A3H0674-83)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.31	---	0.200	ug/L	1	08/09/23 20:23	EPA 200.8	
22393700-085CF23A (A3H0674-84)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.26	---	0.200	ug/L	1	08/09/23 20:27	EPA 200.8	
22393700-086DW23A (A3H0674-85)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.501	---	0.200	ug/L	1	08/09/23 20:28	EPA 200.8	
22393700-087CF23A (A3H0674-86)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.35	---	0.200	ug/L	1	08/09/23 20:30	EPA 200.8	
22393700-088DW23A (A3H0674-87)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.981	---	0.200	ug/L	1	08/09/23 20:31	EPA 200.8	
22393700-089CF23A (A3H0674-88)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.15	---	0.200	ug/L	1	08/09/23 20:33	EPA 200.8	
22393700-090CF23A (A3H0674-89)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.618	---	0.200	ug/L	1	08/09/23 20:37	EPA 200.8	
22393700-091DW23A (A3H0674-90)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.794	---	0.200	ug/L	1	08/09/23 20:39	EPA 200.8	
22393700-092CF23A (A3H0674-91)				Matrix: Drinking Water				

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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
22393700-092CF23A (A3H0674-91)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.11	---	0.200	ug/L	1	08/09/23 20:40	EPA 200.8	
22393700-093DW23A (A3H0674-92)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.81	---	0.200	ug/L	1	08/09/23 20:41	EPA 200.8	
22393700-094CF23A (A3H0674-93)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.20	---	0.200	ug/L	1	08/09/23 20:43	EPA 200.8	
22393700-095DW23A (A3H0674-94)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.41	---	0.200	ug/L	1	08/09/23 20:44	EPA 200.8	
22393700-096CF23A (A3H0674-95)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.762	---	0.200	ug/L	1	08/09/23 20:46	EPA 200.8	
22393700-097CF23A (A3H0674-96)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.368	---	0.200	ug/L	1	08/09/23 20:47	EPA 200.8	
22393700-098DW23A (A3H0674-97)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	2.88	---	0.200	ug/L	1	08/09/23 20:49	EPA 200.8	
22393700-099CF23A (A3H0674-98)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	2.39	---	0.200	ug/L	1	08/09/23 20:50	EPA 200.8	
22393700-100DW23A (A3H0674-99RE1)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.28	---	0.200	ug/L	1	08/11/23 13:46	EPA 200.8	
22393700-101CF23A (A3H0674-AARE1)				Matrix: Drinking Water				

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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
22393700-101CF23A (A3H0674-AARE1)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.19	---	0.200	ug/L	1	08/11/23 13:48	EPA 200.8	
22393700-102DW23A (A3H0674-ABRE1)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	0.457	---	0.200	ug/L	1	08/11/23 13:49	EPA 200.8	
22393700-103CF23A (A3H0674-ACRE1)				Matrix: Drinking Water				
<u>Batch: 23H0166</u>								
Lead	1.79	---	0.200	ug/L	1	08/11/23 13:51	EPA 200.8	
22393700-104DW23A (A3H0674-ADRE1)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.733	---	0.200	ug/L	1	08/11/23 13:56	EPA 200.8	
22393700-105CF23A (A3H0674-AE)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	2.44	---	0.200	ug/L	1	08/09/23 21:14	EPA 200.8	
22393700-106BF23A (A3H0674-AF)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.962	---	0.200	ug/L	1	08/09/23 21:15	EPA 200.8	
22393700-107BF23A (A3H0674-AG)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.734	---	0.200	ug/L	1	08/09/23 21:16	EPA 200.8	
22393700-108BF23A (A3H0674-AH)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	1.09	---	0.200	ug/L	1	08/09/23 21:18	EPA 200.8	
22393700-109BF23A (A3H0674-AI)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	ND	---	0.200	ug/L	1	08/09/23 21:19	EPA 200.8	
22393700-110BF23A (A3H0674-AJ)				Matrix: Drinking Water				

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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
22393700-110BF23A (A3H0674-AJ)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.248	---	0.200	ug/L	1	08/09/23 21:21	EPA 200.8	
22393700-111BF23A (A3H0674-AK)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.413	---	0.200	ug/L	1	08/09/23 21:22	EPA 200.8	
22393700-112BF23A (A3H0674-AL)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.400	---	0.200	ug/L	1	08/09/23 21:24	EPA 200.8	
22393700-113BF23A (A3H0674-AM)				Matrix: Drinking Water				
<u>Batch: 23H0167</u>								
Lead	0.397	---	0.200	ug/L	1	08/09/23 21:25	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0069 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23H0069-BLK1)												
			Prepared: 08/02/23 09:14 Analyzed: 08/09/23 13:45									
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (23H0069-BS1)												
			Prepared: 08/02/23 09:14 Analyzed: 08/09/23 13:46									
<u>EPA 200.8</u>												
Lead	15.1	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	
Duplicate (23H0069-DUP1)												
			Prepared: 08/02/23 09:14 Analyzed: 08/09/23 13:49									
<u>QC Source Sample: 22393700-001NS23A (A3H0674-01)</u>												
<u>EPA 200.8</u>												
Lead	0.297	---	0.200	ug/L	1	---	0.341	---	---	14	20%	
Matrix Spike (23H0069-MS1)												
			Prepared: 08/02/23 09:14 Analyzed: 08/09/23 13:51									
<u>QC Source Sample: 22393700-001NS23A (A3H0674-01)</u>												
<u>EPA 200.8</u>												
Lead	14.9	---	0.201	ug/L	1	15.0	0.341	97	70 - 130%	---	---	
Matrix Spike (23H0069-MS2)												
			Prepared: 08/02/23 09:14 Analyzed: 08/09/23 14:26									
<u>QC Source Sample: 22393700-020CF23A (A3H0674-20)</u>												
<u>EPA 200.8</u>												
Lead	16.9	---	0.201	ug/L	1	15.0	1.43	103	70 - 130%	---	---	
Batch 23H0070 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23H0070-BLK1)												
			Prepared: 08/02/23 09:16 Analyzed: 08/09/23 14:28									
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (23H0070-BS1)												
			Prepared: 08/02/23 09:16 Analyzed: 08/09/23 14:29									
<u>EPA 200.8</u>												
Lead	15.9	---	0.201	ug/L	1	15.0	---	106	85 - 115%	---	---	
Duplicate (23H0070-DUP1)												
			Prepared: 08/02/23 09:16 Analyzed: 08/09/23 14:32									
<u>QC Source Sample: 22393700-021DW23A (A3H0674-21)</u>												

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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 23H0070 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (23H0070-DUP1)			Prepared: 08/02/23 09:16 Analyzed: 08/09/23 14:32									
<u>QC Source Sample: 22393700-021DW23A (A3H0674-21)</u>												
<u>EPA 200.8</u>												
Lead	0.586	---	0.200	ug/L	1	---	0.614	---	---	5	20%	
Matrix Spike (23H0070-MS1)			Prepared: 08/02/23 09:16 Analyzed: 08/09/23 14:34									
<u>QC Source Sample: 22393700-021DW23A (A3H0674-21)</u>												
<u>EPA 200.8</u>												
Lead	16.5	---	0.201	ug/L	1	15.0	0.614	106	70 - 130%	---	---	
Matrix Spike (23H0070-MS2)			Prepared: 08/02/23 09:16 Analyzed: 08/09/23 15:10									
<u>QC Source Sample: 22393700-040BF23A (A3H0674-40)</u>												
<u>EPA 200.8</u>												
Lead	16.8	---	0.201	ug/L	1	15.0	0.482	109	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 23H0121 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23H0121-BLK1)		Prepared: 08/03/23 10:40 Analyzed: 08/09/23 18:50										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (23H0121-BS1)		Prepared: 08/03/23 10:40 Analyzed: 08/09/23 18:51										
<u>EPA 200.8</u>												
Lead	15.6	---	0.201	ug/L	1	15.0	---	104	85 - 115%	---	---	---
Duplicate (23H0121-DUP1)		Prepared: 08/03/23 10:40 Analyzed: 08/09/23 18:54										
<u>QC Source Sample: 22393700-041BF23A (A3H0674-41)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	0.195	---	---	***	20%	---
Matrix Spike (23H0121-MS1)		Prepared: 08/03/23 10:40 Analyzed: 08/09/23 18:56										
<u>QC Source Sample: 22393700-041BF23A (A3H0674-41)</u>												
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	0.195	101	70 - 130%	---	---	---
Matrix Spike (23H0121-MS2)		Prepared: 08/03/23 10:40 Analyzed: 08/09/23 19:31										
<u>QC Source Sample: 22393700-062CF23A (A3H0674-61)</u>												
<u>EPA 200.8</u>												
Lead	18.3	---	0.201	ug/L	1	15.0	2.55	105	70 - 130%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0164 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23H0164-BLK1)		Prepared: 08/04/23 11:00 Analyzed: 08/09/23 19:33										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (23H0164-BS1)		Prepared: 08/04/23 11:00 Analyzed: 08/09/23 19:34										
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	---	108	85 - 115%	---	---	---
Duplicate (23H0164-DUP1)		Prepared: 08/04/23 11:00 Analyzed: 08/09/23 19:39										
<u>QC Source Sample: 22393700-063DW23A (A3H0674-62)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	---
Matrix Spike (23H0164-MS1)		Prepared: 08/04/23 11:00 Analyzed: 08/09/23 19:41										
<u>QC Source Sample: 22393700-063DW23A (A3H0674-62)</u>												
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	ND	105	70 - 130%	---	---	---
Matrix Spike (23H0164-MS2)		Prepared: 08/04/23 11:00 Analyzed: 08/09/23 20:15										
<u>QC Source Sample: 22393700-083CF23A (A3H0674-82)</u>												
<u>EPA 200.8</u>												
Lead	17.2	---	0.201	ug/L	1	15.0	1.30	106	70 - 130%	---	---	---

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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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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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 23H0166 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23H0166-BLK1)		Prepared: 08/04/23 11:03		Analyzed: 08/09/23 20:20								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (23H0166-BS1)		Prepared: 08/04/23 11:03		Analyzed: 08/09/23 20:21								
<u>EPA 200.8</u>												
Lead	16.1	---	0.201	ug/L	1	15.0	---	107	85 - 115%	---	---	
Duplicate (23H0166-DUP1)		Prepared: 08/04/23 11:03		Analyzed: 08/09/23 20:24								
<u>QC Source Sample: 22393700-084DW23A (A3H0674-83)</u>												
<u>EPA 200.8</u>												
Lead	1.29	---	0.200	ug/L	1	---	1.31	---	---	2	20%	
Matrix Spike (23H0166-MS1)		Prepared: 08/04/23 11:03		Analyzed: 08/09/23 20:25								
<u>QC Source Sample: 22393700-084DW23A (A3H0674-83)</u>												
<u>EPA 200.8</u>												
Lead	17.3	---	0.201	ug/L	1	15.0	1.31	106	70 - 130%	---	---	
Matrix Spike (23H0166-MS3)		Prepared: 08/04/23 11:03		Analyzed: 08/11/23 13:52								
<u>QC Source Sample: 22393700-103CF23A (A3H0674-ACRE1)</u>												
<u>EPA 200.8</u>												
Lead	16.8	---	0.201	ug/L	1	15.0	1.79	100	70 - 130%	---	---	Q-16

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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 23H0167 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23H0167-BLK2)		Prepared: 08/04/23 11:04 Analyzed: 08/11/23 13:53										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (23H0167-BS2)		Prepared: 08/04/23 11:04 Analyzed: 08/11/23 13:55										
<u>EPA 200.8</u>												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	Q-16
Duplicate (23H0167-DUP2)		Prepared: 08/04/23 11:04 Analyzed: 08/11/23 13:58										
<u>QC Source Sample: 22393700-104DW23A (A3H0674-ADRE1)</u>												
<u>EPA 200.8</u>												
Lead	0.710	---	0.200	ug/L	1	---	0.733	---	---	3	20%	Q-16
Matrix Spike (23H0167-MS2)		Prepared: 08/04/23 11:04 Analyzed: 08/11/23 13:59										
<u>QC Source Sample: 22393700-104DW23A (A3H0674-ADRE1)</u>												
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	0.733	100	70 - 130%	---	---	Q-16

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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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 23H0405 - EPA 3015A						Drinking Water						
Blank (23H0405-BLK1)		Prepared: 08/10/23 11:34 Analyzed: 08/10/23 21:11										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
LCS (23H0405-BS1)		Prepared: 08/10/23 11:34 Analyzed: 08/10/23 21:16										
<u>EPA 200.8</u>												
Lead	16.9	---	0.222	ug/L	1	16.7	---	101	85 - 115%	---	---	---
Duplicate (23H0405-DUP1)		Prepared: 08/10/23 11:34 Analyzed: 08/10/23 21:25										
<u>QC Source Sample: 22393700-051KF23A (A3H0674-50)</u>												
<u>EPA 200.8</u>												
Lead	2.39	---	0.222	ug/L	1	---	2.27	---	---	5	20%	DW-D
Matrix Spike (23H0405-MS1)		Prepared: 08/10/23 11:34 Analyzed: 08/10/23 21:30										
<u>QC Source Sample: 22393700-051KF23A (A3H0674-50)</u>												
<u>EPA 200.8</u>												
Lead	19.8	---	0.222	ug/L	1	16.7	2.27	105	70 - 130%	---	---	DW-D

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ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Tamarack ES/23440.171**

Project Manager: **Dale Voeller**

Report ID:

A3H0674 - 08 15 23 0947

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
Batch: 23H0069							
A3H0674-01	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-02	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-03	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-04	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-05	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-06	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-07	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-08	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-09	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-10	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-11	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-12	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-13	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-14	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-15	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-16	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-17	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-18	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-19	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
A3H0674-20	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:14	10mL/10mL	10mL/10mL	1.00
Batch: 23H0070							
A3H0674-21	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-22	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-23	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-24	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-25	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-26	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-27	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-28	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-29	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-30	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-31	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-32	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-33	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-34	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-35	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00

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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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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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
A3H0674-36	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-37	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-38	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-39	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
A3H0674-40	Drinking Water	EPA 200.8	07/29/23 00:00	08/02/23 09:16	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23H0121</u>							
A3H0674-41	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-42	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-43	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-44	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-45	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-46	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-47	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-48	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-49	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-51	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-52	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-53	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-54	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-55	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-56	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-57	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-58	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-59	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-60	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
A3H0674-61	Drinking Water	EPA 200.8	07/29/23 00:00	08/03/23 10:40	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23H0164</u>							
A3H0674-62	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-63	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-64	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-65	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-66	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-68	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-69	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-70	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-71	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	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
A3H0674-72	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-73	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-74	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-75	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-76	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-77	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-78	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-79	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-80	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-81	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
A3H0674-82	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:00	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23H0166</u>							
A3H0674-83	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-84	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-85	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-86	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-87	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-88	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-89	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-90	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-91	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-92	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-93	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-94	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-95	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-96	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-97	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-98	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-99RE1	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-AARE1	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-ABRE1	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
A3H0674-ACRE1	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:03	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23H0167</u>							
A3H0674-ADRE1	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AE	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AF	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00

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ANALYTICAL REPORT

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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: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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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
A3H0674-AG	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AH	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AI	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AJ	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AK	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AL	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00
A3H0674-AM	Drinking Water	EPA 200.8	07/29/23 00:00	08/04/23 11:04	10mL/10mL	10mL/10mL	1.00

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23H0405</u>							
A3H0674-50	Drinking Water	EPA 200.8	07/29/23 00:00	08/10/23 11:34	45mL/50mL	10mL/10mL	1.11
A3H0674-67	Drinking Water	EPA 200.8	07/29/23 00:00	08/10/23 11:34	45mL/50mL	10mL/10mL	1.11

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- DW-D Turbidity greater than 1 NTU. Sample was digested per EPA Method 200.8.
- Q-16 Reanalysis of an original Batch QC sample.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

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Jason Woodcock, Project Manager

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: Tamarack ES/23440.171 Project Manager: Dale Voeller	Report ID: A3H0674 - 08 15 23 0947
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A3H0674

	Fixture Number	Sample Number	Room / Location
Lead in Drinking Water Testing Program			Hillsboro School District
Date Collected: 07/29/2023		School Name: Tamarack Elementary	
21	021	22393700-021DW23A	Room 111 drinking fountain
22	022	22393700-022CF23A	Room 111 classroom faucet
23	023	22393700-023DW23A	Room 112 drinking fountain
24	024	22393700-024CF23A	Room 112 classroom faucet
25	025	22393700-025BF23A	Room 112 restroom faucet
26	026	22393700-026DW23A	Room 113 drinking fountain
27	027	22393700-027CF23A	Room 113 classroom faucet
28	028	22393700-028BF23A	Room 113 restroom faucet
29	029	22393700-029DW23A	Room 114 drinking fountain
30	030	22393700-030CF23A	Room 114 classroom faucet
31	031	22393700-031BF23A	Room 114 restroom faucet
32	032	22393700-032CF23A	Room 115 left sink faucet
33	033	22393700-033DW23A	Room 115 right sink drinking fountain
34	034	22393700-034CF23A	Room 115 right sink faucet
35	035	22393700-035BF23A	Room 115 restroom sink faucet
36	036	22393700-036BF23A	West end gang restroom sink faucets – left to right (1)
37	037	22393700-037BF23A	West end gang restroom sink faucets – left to right (2)
38	038	22393700-038BF23A	West end gang restroom sink faucets – left to right (3)
39	039	22393700-039BF23A	West end gang restroom sink faucets – left to right (4)
40	040	22393700-040BF23A	West end gang restroom sink faucets – left to right (5)
41	041	22393700-041BF23A	West end gang restroom sink faucets – left to right (6)
42	042	22393700-042BF23A	West end gang restroom sink faucets – left to right (7)
43	043	22393700-043BF23A	West end gang restroom sink faucets – left to right (8)
44	044	22393700-044BF23A	West ADA restrooms at stairs – left restroom sink faucet
45	045	22393700-045BF23A	West ADA restrooms at stairs – right restroom sink faucet
45	046	22393700-046BF23A	West end single ADA restroom
47	047	22393700-047BF23A	Kitchen hallway ADA restroom sink faucet
48	048	No Sample	FIXTURE NOT WORKING -Kitchen pot filler faucet
49	049	22393700-049KF23A	Kitchen, north single prep sink faucet
50	050	22393700-050KF23A	Kitchen, west double prep sink faucet





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A3H0674

Lead in Drinking Water Testing Program Hillsboro School District

Date Collected: 07/29/2023 School Name: Tamarack Elementary

No.	Fixture Number	Sample Number	Room / Location
51	051	22393700-051KF23A	Kitchen, west double prep sink sprayer
52	052	22393700-052KF23A	Kitchen, triple sanitizing sink – left faucet
53	053	22393700-053KF23A	Kitchen, triple sanitizing sink – right faucet
54	054	22393700-054KF23A	Kitchen, dish drop room – left sink faucet
55	055	22393700-055KF23A	Kitchen, dish drop room – right sink faucet
56	056	22393700-056WB23A	Cafeteria water bottle filler
57	057	22393700-057DW23A	Cafeteria drinking fountain – left
58	058	22393700-058DW23A	Cafeteria drinking fountain – right
59	059	22393700-059DW23A	Main hall at Music Room entrance – left drinking fountain
60	060	22393700-060DW23A	Main hall at Music Room entrance – right drinking fountain
61	061	22393700-061DW23A	Room 175 (Music Room) drinking fountain
62	062	22393700-062CF23A	Room 175 (Music Room) sink faucet
63	063	22393700-063DW23A	2 nd Floor drinking fountains east of elevator – left
64	064	22393700-064DW23A	2 nd Floor drinking fountains east of elevator – right
65	065	22393700-065BF23A	2 nd Floor east gang restrooms – left to right (1)
66	066	22393700-066BF23A	2 nd Floor east gang restrooms – left to right (2)
67	067	22393700-067BF23A	2 nd Floor east gang restrooms – left to right (3)
68	068	22393700-068BF23A	2 nd Floor east gang restrooms – left to right (4)
69	069	22393700-069BF23A	2 nd Floor east gang restrooms – left to right (5)
70	070	22393700-070BF23A	2 nd Floor east gang restrooms – left to right (6)
71	071	22393700-071CF23A	2 nd Floor east common area sink faucet
72	072	22393700-072DW23A	Room 202 drinking fountain
73	073	22393700-073CF23A	Room 202 classroom faucet
74	074	22393700-074DW23A	Room 201 drinking fountain
75	075	22393700-075CF23A	Room 201 classroom faucet
76	076	22393700-076DW23A	Room 203 drinking fountain
77	077	22393700-077CF23A	Room 203 classroom faucet
78	078	22393700-078DW23A	Room 204 drinking fountain
79	079	22393700-079CF23A	Room 204 classroom faucet
80	080	22393700-080DW23A	Room 205 drinking fountain

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A3H0674


Lead in Drinking Water Testing Program Hillsboro School District

Date Collected: 07/29/2023 School Name: Tamarack Elementary

	Fixture Number	Sample Number	Room / Location
81	081	22393700-081CF23A	Room 205 classroom faucet
82	082	22393700-082DW23A	Room 206 drinking fountain
83	083	22393700-083CF23A	Room 206 classroom faucet
84	084	22393700-084DW23A	Room 207 drinking fountain
85	085	22393700-085CF23A	Room 207 classroom faucet
86	086	22393700-086DW23A	Room 208 drinking fountain
87	087	22393700-087CF23A	Room 208 classroom faucet
88	088	22393700-088DW23A	Room 209 drinking fountain
89	089	22393700-089CF23A	Room 209 classroom faucet
90	090	22393700-090CF23A	2 nd Floor center common area sink faucet
91	091	22393700-091DW23A	Room 210 drinking fountain
92	092	22393700-092CF23A	Room 210 classroom faucet
93	093	22393700-093DW23A	Room 211 drinking fountain
94	094	22393700-094CF23A	Room 211 classroom faucet
95	095	22393700-095DW23A	Room 212 drinking fountain
96	096	22393700-096CF23A	Room 212 classroom faucet
97	097	22393700-097CF23A	2 nd Floor west common area sink faucet
98	098	22393700-098DW23A	Room 213 drinking fountain
99	099	22393700-099CF23A	Room 213 classroom faucet
100	100	22393700-100DW23A	Room 214 drinking fountain
101	101	22393700-101CF23A	Room 214 classroom faucet
102	102	22393700-102DW23A	Room 215 drinking fountain
103	103	22393700-103CF23A	Room 215 classroom faucet
104	104	22393700-104DW23A	Room 216 drinking fountain
105	105	22393700-105CF23A	Room 216 classroom faucet
106	106	22393700-106BF23A	2 nd Floor west end ADA restrooms - left
107	107	22393700-107BF23A	2 nd Floor west end ADA restrooms - right
108	108	22393700-108BF23A	2 nd Floor west gang restrooms - left to right (1)
109	109	22393700-109BF23A	2 nd Floor west gang restrooms - left to right (2)
110	110	22393700-110BF23A	2 nd Floor west gang restrooms - left to right (3)


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A3H0674

Lead in Drinking Water Testing Program Hillsboro School District

Date Collected: 07/29/2023 School Name: Tamarack Elementary

	Fixture Number	Sample Number	Room / Location
111	111	22393700-111BF23A	2 nd Floor west gang restrooms – left to right (4)
112	112	22393700-112BF23A	2 nd Floor west gang restrooms – left to right (5)
113	113	22393700-113BF23A	2 nd Floor west gang restrooms – left to right (6)
114			
115			
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Relinquished By/Signature: Dale Voeller

Received By/Signature: Shirley Ann Thompson

Date/Time: 7/29/23 @ 1:11 PM

Date/Time: 7/31/23 (2:10)



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Jason Woodcock, Project Manager

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APEX LABS COOLER RECEIPT FORM

Client: PBS-PDX Element WO#: A3H0674
Project/Project #: TAMARACK ELEMENTARY SCHOOL -ROUND 1 23440.171/0004

Delivery Info:

Date/time received: 7/31/23 @ 1210 By: SAT
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 7/31/23 @ 1235 By: SAT

Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>21.9</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>N/A</u>						
Condition (In/Out):	<u>OUT</u>						

Cooler out of temp? (Y/N) Possible reason why: DRINKING WATER

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 8/1/23 @ 11:11 By: APW

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: _____

Labeled by: APW

Witness: DJS

Cooler Inspected by: APW

Form Y-003 R-00

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