



September 22, 2021

Dave Peterson
Hillsboro School District
4901 SE Witch Hazel Road
Hillsboro, Oregon 97123

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

Regarding: Revised Drinking Water Sampling Report
 L.C. Tobias Elementary School
 1065 SW 206th Avenue
 Aloha, Oregon 97006
 PBS Project 23440.116, Phase 0003

Dear Mr. Peterson:

On May 1, May 23, June 18, and September 2, 2021, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at L.C. Tobias Elementary School in Aloha, Oregon. 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).

Student restrooms in the building have a single handwash basin with four individually activated spray heads. Typically, only one or two of the individual spray heads in each restroom are operational. Following ODE guidelines, each of these fixtures was assigned a fixture number. Those fixture numbers and a description of the fixture are included in the report but there is no associated sample number or result.

During the initial round of testing, nine samples were found to have lead levels above 15 ppb. The fixtures associated with these sample were resampled after fixture replacement or repair. All working fixtures used for drinking or food preparation in the building now test below 15 ppb of lead.

All samples were analyzed by Apex Laboratories in Tigard, Oregon. The following tables lists the results of the initial and subsequent rounds of sampling analysis. Results above 15 ppb are shown in bold.

Fixture Number	Sample Number	Round 1 - May 1, 2021 Location / Room No.	Results (ppb)
001	22392400-001NS21A	Health Room Sink	2.48
002	22392400-002SF21A	Staff Lounge Sink	0.872
003	22392400-003SF21A	Staff Lounge Filtered Water Faucet	0.431
004	22392400-004BF21A	Mens Staff Restroom – Left Sink	1.12
005	22392400-005BF21A	Mens Staff Restroom – Right Sink	0.952
006	22392400-006BF21A	Womens Staff Restroom – Left Sink	2.38
007	22392400-007BF21A	Womens Staff Restroom – Right Sink	10.1

Fixture Number	Sample Number	Round 1 - May 1, 2021	Results (ppb)
		Location / Room No.	
008	22392400-008BF21A	Girls RR in Hall to Music Rm, Multi-Head Sink – Left to Right (1)	4.34
009		Girls RR in Hall to Music Rm, Multi-Head Sink – Left to Right (2)	
010		Girls RR in Hall to Music Rm, Multi-Head Sink – Left to Right (3)	
011	22392400-011BF21A	Girls RR in Hall to Music Rm, Multi-Head Sink – Left to Right (4)	2.24
012	22392400-012BF21A	Boys RR in Hall to Music Rm, Multi-Head Sink – Left to Right (1)	2.05
013		Boys RR in Hall to Music Rm, Multi-Head Sink – Left to Right (2)	
014		Boys RR in Hall to Music Rm, Multi-Head Sink – Left to Right (3)	
015	22392400-015BF21A	Boys RR in Hall to Music Rm, Multi-Head Sink – Left to Right (4)	2.89
016	22392400-016DW21A	Hall at Door to Room 22 (Music), Drinking Fountain	0.369
017	22392400-017DW21A	Room 22 (Music) Drinking Fountain	1.31
018	22392400-018CF21A	Room 22 (Music) Sink Faucet	8.55
019	22392400-019DW21A	Room 2 Drinking Fountain	0.993
020	22392400-020CF21A	Room 2 Classroom Faucet	5.44
021	22392400-021BF21A	Room 2 Restroom Sink	0.623
022	22392400-022DW21A	Room 4 Drinking Fountain	7.33
023	22392400-023CF21A	Room 4 Classroom Faucet	4.02
024	22392400-024BF21A	Room 4 Restroom Sink	0.491
025	22392400-025SF21A	Server Room Sink Faucet	6.70
026	22392400-026DW21A	Room 12 Drinking Fountain	3.81
027	22392400-027CF21A	Room 12 Classroom Faucet	8.71
028	22392400-028DW21A	Room 14 Drinking Fountain	1.46
029	22392400-029CF21A	Room 14 Classroom Faucet	11.1
030	22392400-030DW21A	Room 16 Drinking Fountain	77.5
031	22392400-031CF21A	Room 16 Classroom Faucet	8.37
032	22392400-032DW21A	Room 18 Drinking Fountain	3.21
033	22392400-033CF21A	Room 18 Classroom Faucet	13.8
034	22392400-034DW21A	Room 20 Drinking Fountain	10.7
035		Room 20 Classroom Faucet (not working)	
036	22392400-036DW21A	Room 23 Drinking Fountain	26.6
037	22392400-037CF21A	Room 23 Classroom Faucet	5.09
038	22392400-038DW21A	Room 21 Drinking Fountain	5.55
039	22392400-039CF21A	Room 21 Classroom Faucet	7.49
040	22392400-040DW21A	Room 19 Drinking Fountain	3.71
041	22392400-041CF21A	Room 19 Classroom Faucet	4.43
042		Girls RR at Rm 19, Multi-Head Sink – Left to Right (1)	
043		Girls RR at Rm 19, Multi-Head Sink – Left to Right (2)	
044		Girls RR at Rm 19, Multi-Head Sink – Left to Right (3)	
045		Girls RR at Rm 19, Multi-Head Sink – Left to Right (4)	
046	22392400-046BF21A	Boys RR at Rm 19, Multi-Head Sink – Left to Right (1)	6.18
047	22392400-047BF21A	Boys RR at Rm 19, Multi-Head Sink – Left to Right (2)	2.07
048	22392400-048BF21A	Boys RR at Rm 19, Multi-Head Sink – Left to Right (3)	3.87

Fixture Number	Sample Number	Round 1 - May 1, 2021 Location / Room No.	Results (ppb)
049	22392400-049BF21A	Boys RR at Rm 19, Multi-Head Sink – Left to Right (4)	2.98
050	22392400-050DW21A	Room 6 Drinking Fountain	8.03
051	22392400-051CF21A	Room 6 Classroom Faucet	3.59
052	22392400-052DW21A	Room 8 Drinking Fountain	1.83
053	22392400-053CF21A	Room 8 Classroom Faucet	4.18
054		Boys RR at Rm 9, Multi-Head Sink – Left to Right (1)	
055	22392400-055BF21A	Boys RR at Rm 9, Multi-Head Sink – Left to Right (2)	7.77
056		Boys RR at Rm 9, Multi-Head Sink – Left to Right (3)	
057	22392400-057BF21A	Boys RR at Rm 9, Multi-Head Sink – Left to Right (4)	10.9
058		Girls RR at Rm 9, Multi-Head Sink – Left to Right (1)	
059		Girls RR at Rm 9, Multi-Head Sink – Left to Right (2)	
060	22392400-060BF21A	Girls RR at Rm 9, Multi-Head Sink – Left to Right (3)	2.77
061		Girls RR at Rm 9, Multi-Head Sink – Left to Right (4)	
062	22392400-062DW21A	Room 10 Drinking Fountain	8.25
063	22392400-063CF21A	Room 10 Classroom Faucet	5.19
064	22392400-064DW21A	Room 17 Drinking Fountain	3.62
065	22392400-065CF21A	Room 17 Classroom Faucet	4.14
066	22392400-066DW21A	Room 15 Drinking Fountain	5.16
067	22392400-067CF21A	Room 15 Classroom Faucet	15.4
068	22392400-068DW21A	Room 13 Drinking Fountain	6.74
069	22392400-069CF21A	Room 13 Classroom Faucet	16.6
070	22392400-070DW21A	Room 11 Drinking Fountain	7.50
071	22392400-071CF21A	Room 11 Classroom Faucet	38.7
072	22392400-072DW21A	Room 9 Drinking Fountain	1.83
073	22392400-073CF21A	Room 9 Classroom Faucet	59.5
074	22392400-074DW21A	Room 7 Drinking Fountain	4.05
075	22392400-075CF21A	Room 7 Classroom Faucet	48.1
076	22392400-076DW21A	Room 5 Drinking Fountain	2.01
077	22392400-077CF21A	Room 5 Classroom Faucet	132
078	22392400-078DW21A	Room 3 Drinking Fountain	3.92
079	22392400-079CF21A	Room 3 Classroom Faucet	3.67
080	22392400-080BF21A	Room 1 Restroom Sink	3.41
081	22392400-081DW21A	Room 1 Drinking Fountain	7.43
082	22392400-082CF21A	Room 1 Classroom Faucet	6.81
083	22392400-083BF21A	Restroom in Pantry Area, Sink Faucet	0.730
084	22392400-084KF21A	Kitchen, Triple Sink at West Wall – Left Faucet	2.38
085	22392400-085KF21A	Kitchen, Triple Sink at West Wall – Right Faucet	1.66
086	22392400-086KF21A	Kitchen, Handwash Sink at North Wall	0.550
087	22392400-087KF21A	Kitchen, Sprayer at North Double Prep Sink/Disposal	0.310

Fixture Number	Sample Number	Round 1 - May 1, 2021 Location / Room No.	Results (ppb)
088	22392400-088KF21A	Kitchen, Faucet at North Double Prep Sink	1.67
089	22392400-089KF21A	Kitchen, Warmer Tray Faucet – Left (North)	13.0
090	22392400-090KF21A	Kitchen, Warmer Tray Faucet -Right (South)	47.0

ND = no lead detected

Fixture Number	Sample Number	Round 2 - May 23, 2021 Location / Room No.	Results (ppb)
030	22392400-030DW21B	Room 16 Drinking Fountain – fixture replaced	3.01
036	22392400-036DW21B	Room 23 Drinking Fountain - fixture replaced	4.09
067	22392400-067CF21B	Room 15 Classroom Faucet- fixture replaced	12.5
071	22392400-071CF21B	Room 11 Classroom Faucet- fixture replaced	7.69
073	22392400-073CF21B	Room 9 Classroom Faucet - fixture had not been replaced	24.7
075	22392400-075CF21B	Room 7 Classroom Faucet- fixture replaced	1.20
077	22392400-077CF21B	Room 5 Classroom Faucet- fixture replaced	3.95

ND = no lead detected

Fixture Number	Sample Number	Round 3 - June 18, 2021 Location / Room No.	Results (ppb)
042	22392400-042BF21A	Girls RR at Rm 19, Multi-Head Sink – Left to Right (1) - repaired	0.910
045	22392400-045BF21A	Girls RR at Rm 19, Multi-Head Sink – Left to Right (4) - repaired	0.659
069	22392400-069CF21B	Room 13 Classroom Faucet – fixture replaced	1.09
073	22392400-073CF21C	Room 9 Classroom Faucet – fixture replaced	5.05
090	22392400-090KF21B	Kitchen, Warmer Tray Faucet -Right (South) – fixture replaced	0.442

ND = no lead detected

Fixture Number	Sample Number	Round 4 - September 2, 2021 Location / Room No.	Results (ppb)
034	22392400-034DW21B	Room 20 Drinking Fountain – fixture replaced	5.47
035	22392400-035CF21A	Room 20 Classroom Faucet – fixture replaced	0.975

ND = no lead detected

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

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.

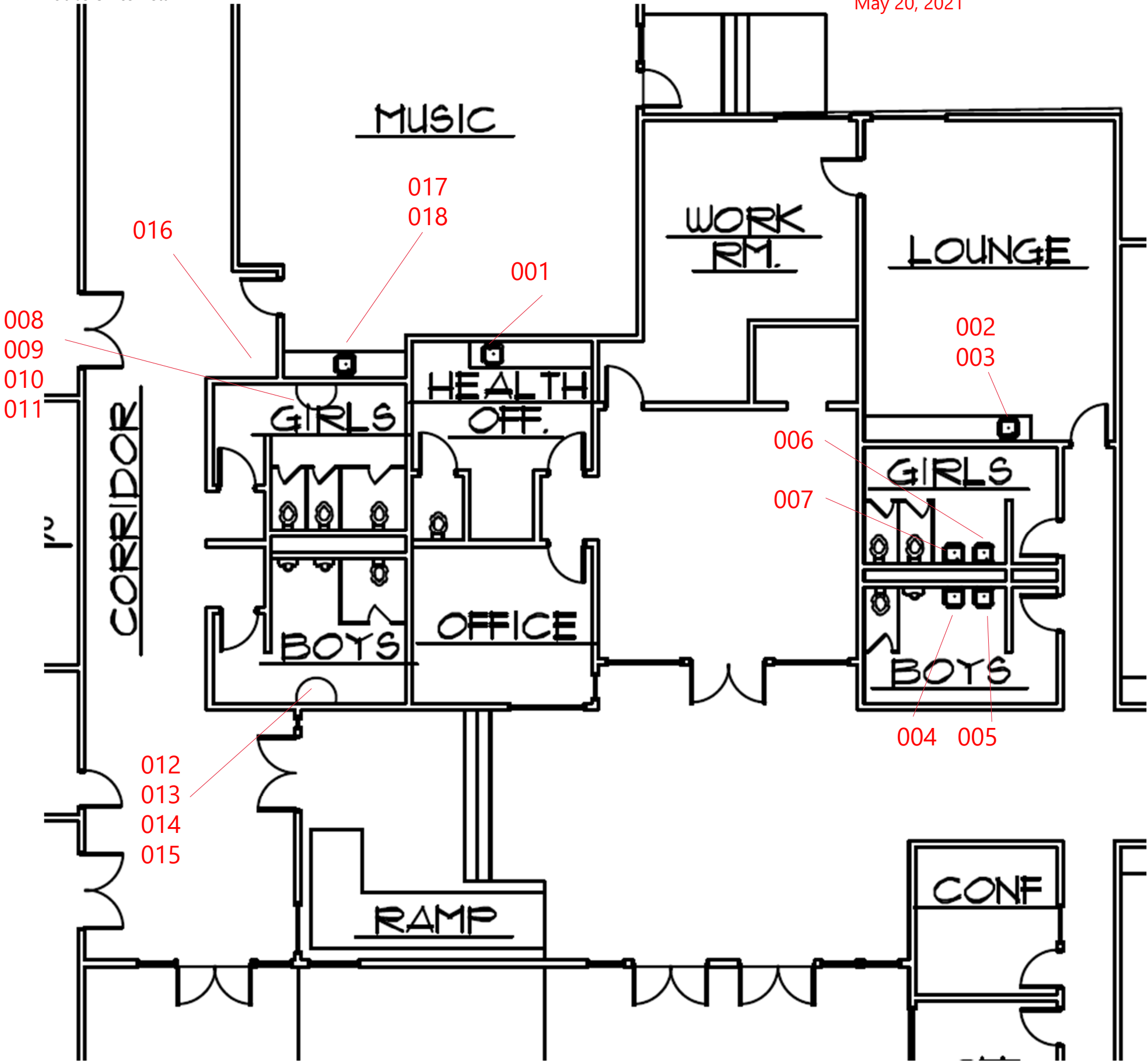
Please feel free to contact me at 503.515.4726 or voeller@pbsusa.com with any questions or comments.

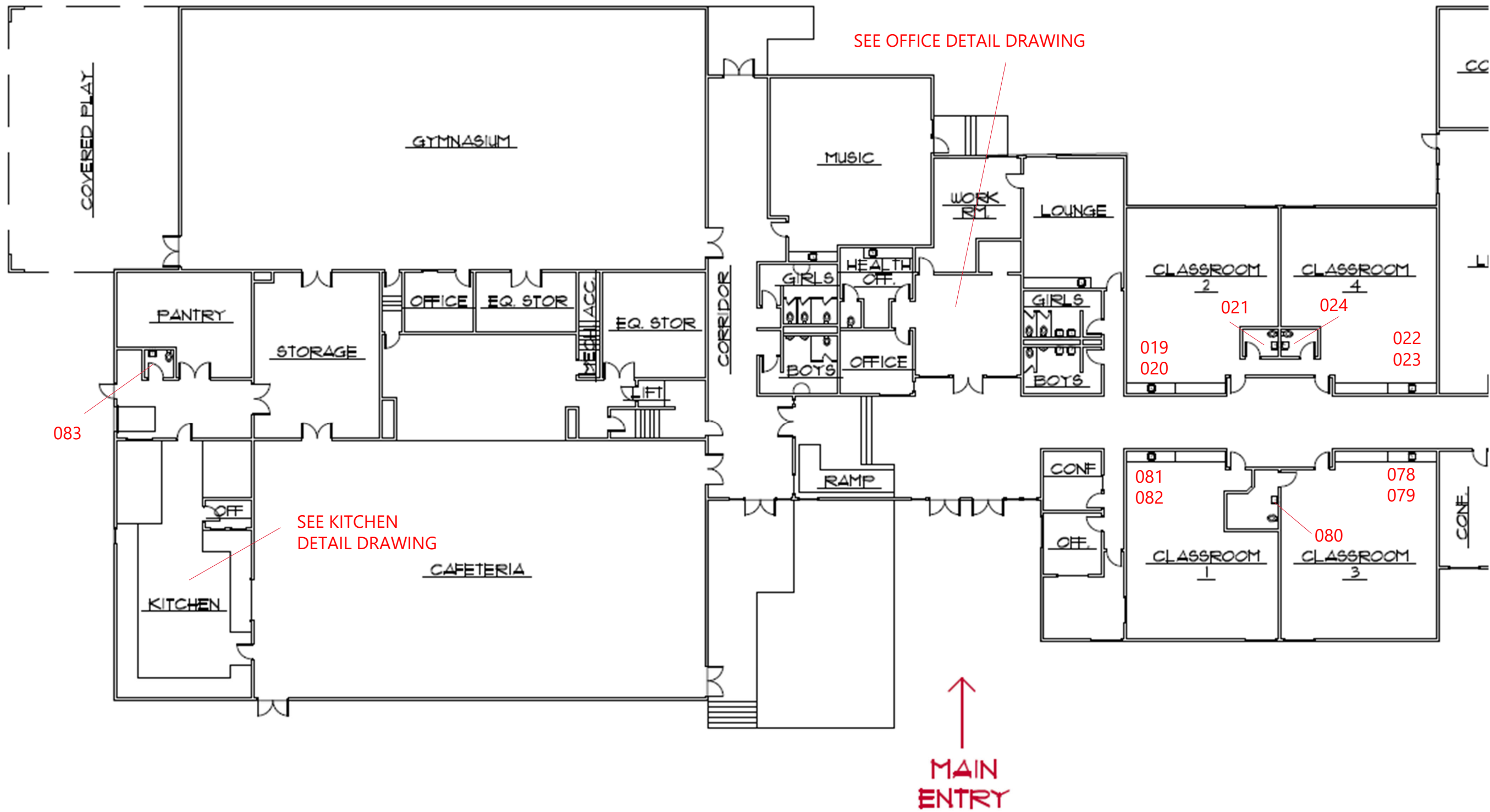
Sincerely,

 Digitally signed by
Dale Voeller, CHMM,
CSP
Date: 2021.09.22
20:46:13 -07'00'

Dale Voeller, CHMM, CSP
Senior Project Manager

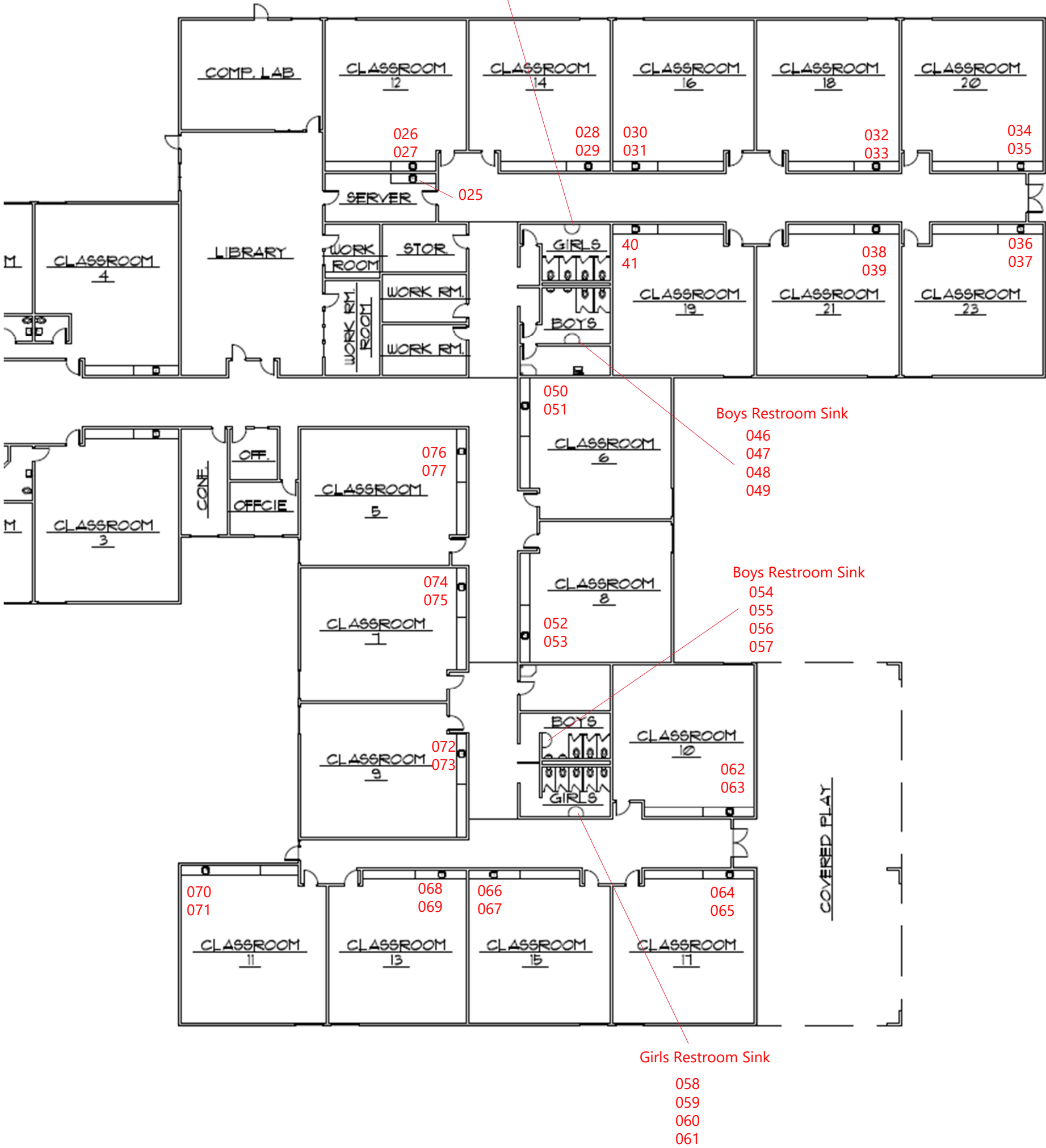
Attachments: Sample Location Drawing
Laboratory Analytical Reports

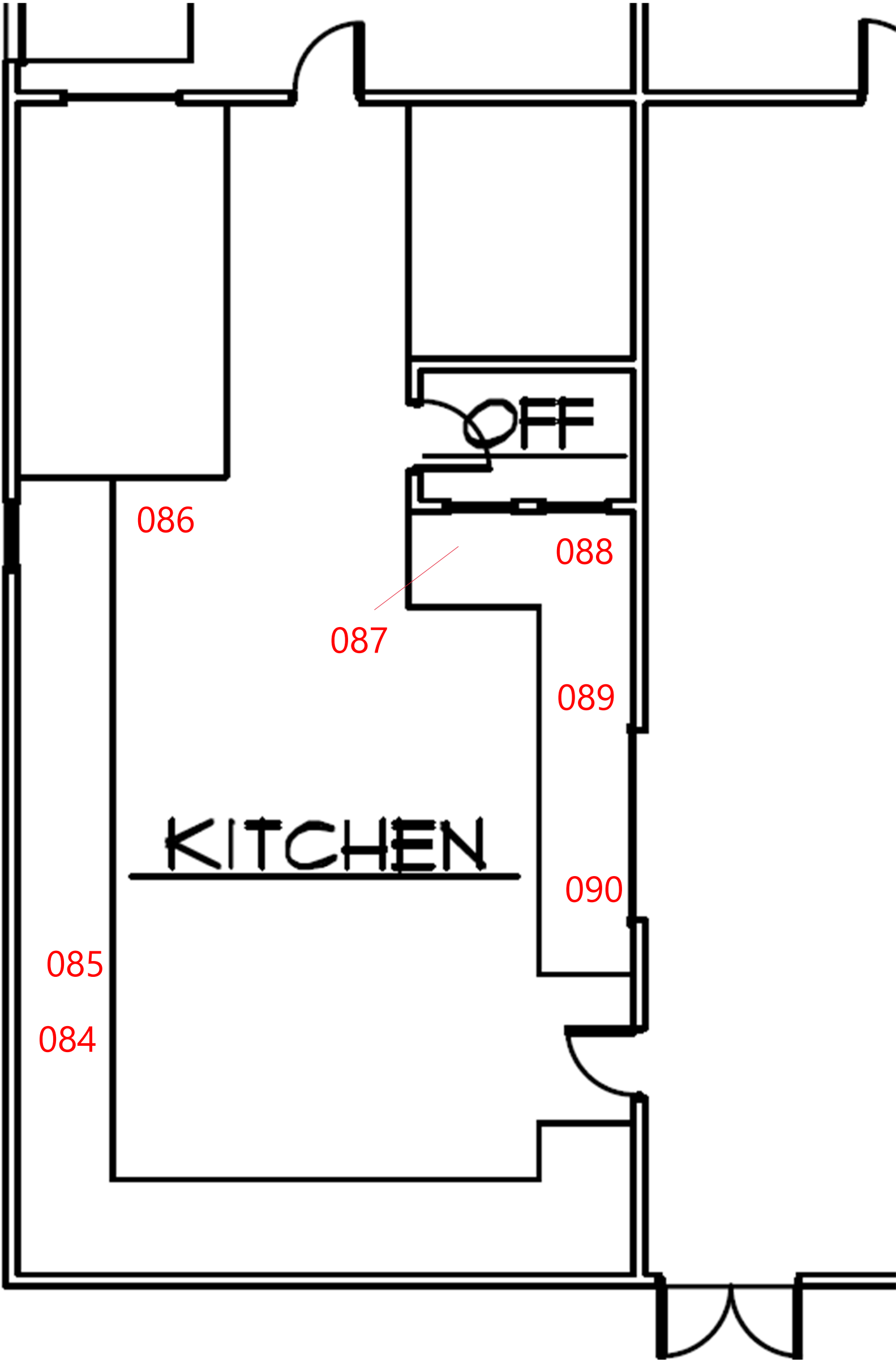




Girls Restroom Sink

042
043
044
045







ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, May 18, 2021

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A1E0236 - L.C. Tobias Elementary School - 23440.116-0003 Main Building

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 A1E0236, which was received by the laboratory on 5/3/2021 at 1:25:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@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)

Cooler#1

21.0 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

Lisa Domenighini, Client Services Manager

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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 97239Project: **L.C. Tobias Elementary School**

Project Number: 23440.116-0003 Main Buildi

Project Manager: Dale Voeller

Report ID:

A1E0236 - 05 18 21 0843

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392400-001NS21A	A1E0236-01	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-002SF21A	A1E0236-02	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-003SF21A	A1E0236-03	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-004BF21A	A1E0236-04	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-005BF21A	A1E0236-05	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-006BF21A	A1E0236-06	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-007BF21A	A1E0236-07	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-008BF21A	A1E0236-08	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-011BF21A	A1E0236-09	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-012BF21A	A1E0236-10	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-015BF21A	A1E0236-13	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-016DW21A	A1E0236-14	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-017DW21A	A1E0236-15	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-018CF21A	A1E0236-16	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-019DW21A	A1E0236-17	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-020CF21A	A1E0236-18	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-021BF21A	A1E0236-19	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-022DW21A	A1E0236-20	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-023CF21A	A1E0236-21	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-024BF21A	A1E0236-22	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-025SF21A	A1E0236-23	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-026DW21A	A1E0236-24	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-027CF21A	A1E0236-25	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-028DW21A	A1E0236-26	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-029CF21A	A1E0236-27	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-030DW21A	A1E0236-28	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-031CF21A	A1E0236-29	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-032DW21A	A1E0236-30	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-033CF21A	A1E0236-31	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-034DW21A	A1E0236-32	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-036DW21A	A1E0236-33	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-037CF21A	A1E0236-34	Drinking Water	05/01/21 00:00	05/03/21 13:25

Apex Laboratories

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Lisa Domenighini, Client Services Manager

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Project Manager: Dale Voeller**Report ID:**

A1E0236 - 05 18 21 0843

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392400-038DW21A	A1E0236-35	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-039CF21A	A1E0236-36	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-040DW21A	A1E0236-37	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-041CF21A	A1E0236-38	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-046BF21A	A1E0236-39	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-047BF21A	A1E0236-40	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-048BF21A	A1E0236-41	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-049BF21A	A1E0236-42	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-050DW21A	A1E0236-43	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-051CF21A	A1E0236-44	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-052DW21A	A1E0236-45	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-053CF21A	A1E0236-46	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-055BF21A	A1E0236-47	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-057BF21A	A1E0236-48	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-060BF21A	A1E0236-49	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-062DW21A	A1E0236-50	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-063CF21A	A1E0236-51	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-064DW21A	A1E0236-52	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-065CF21A	A1E0236-53	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-066DW21A	A1E0236-54	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-067CF21A	A1E0236-55	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-068DW21A	A1E0236-56	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-069CF21A	A1E0236-57	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-070DW21A	A1E0236-58	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-071CF21A	A1E0236-59	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-072DW21A	A1E0236-60	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-073CF21A	A1E0236-61	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-074DW21A	A1E0236-62	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-075CF21A	A1E0236-63	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-076DW21A	A1E0236-64	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-077CF21A	A1E0236-65	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-078DW21A	A1E0236-66	Drinking Water	05/01/21 00:00	05/03/21 13:25

Apex Laboratories

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Lisa Domenighini, Client Services Manager

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22392400-079CF21A	A1E0236-67	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-080BF21A	A1E0236-68	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-081DW21A	A1E0236-69	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-082CF21A	A1E0236-70	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-083BF21A	A1E0236-71	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-084KF21A	A1E0236-72	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-085KF21A	A1E0236-73	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-086KF21A	A1E0236-74	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-087KF21A	A1E0236-75	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-088KF21A	A1E0236-76	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-089KF21A	A1E0236-77	Drinking Water	05/01/21 00:00	05/03/21 13:25
22392400-090KF21A	A1E0236-78	Drinking Water	05/01/21 00:00	05/03/21 13:25

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: L.C. Tobias Elementary School
Project Number: 23440.116-0003 Main Buildi
Project Manager: Dale VoellerReport ID:
A1E0236 - 05 18 21 0843

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
22392400-001NS21A (A1E0236-01RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	2.48	---	0.200	ug/L	1	05/11/21 15:38	EPA 200.8	
22392400-002SF21A (A1E0236-02RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.872	---	0.200	ug/L	1	05/11/21 15:42	EPA 200.8	
22392400-003SF21A (A1E0236-03RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.431	---	0.200	ug/L	1	05/11/21 15:45	EPA 200.8	
22392400-004BF21A (A1E0236-04RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	1.12	---	0.200	ug/L	1	05/11/21 15:48	EPA 200.8	
22392400-005BF21A (A1E0236-05RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.952	---	0.200	ug/L	1	05/11/21 15:52	EPA 200.8	
22392400-006BF21A (A1E0236-06RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	2.38	---	0.200	ug/L	1	05/11/21 15:55	EPA 200.8	
22392400-007BF21A (A1E0236-07RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	10.1	---	0.200	ug/L	1	05/11/21 16:15	EPA 200.8	
22392400-008BF21A (A1E0236-08RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	4.34	---	0.200	ug/L	1	05/11/21 16:20	EPA 200.8	
22392400-011BF21A (A1E0236-09RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	2.24	---	0.200	ug/L	1	05/11/21 16:24	EPA 200.8	

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: 23440.116-0003 Main Buildi

Project Manager: Dale Voeller

Report ID:

A1E0236 - 05 18 21 0843

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
22392400-012BF21A (A1E0236-10RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	2.05	---	0.200	ug/L	1	05/11/21 16:28	EPA 200.8	
22392400-015BF21A (A1E0236-13RE1)				Matrix: Drinking Water				
Batch: 1050346								
Lead	2.89	---	0.200	ug/L	1	05/11/21 16:32	EPA 200.8	
22392400-016DW21A (A1E0236-14)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.369	---	0.200	ug/L	1	05/11/21 16:36	EPA 200.8	
22392400-017DW21A (A1E0236-15)				Matrix: Drinking Water				
Batch: 1050346								
Lead	1.31	---	0.200	ug/L	1	05/11/21 16:39	EPA 200.8	
22392400-018CF21A (A1E0236-16)				Matrix: Drinking Water				
Batch: 1050346								
Lead	8.55	---	0.200	ug/L	1	05/11/21 16:43	EPA 200.8	
22392400-019DW21A (A1E0236-17)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.993	---	0.200	ug/L	1	05/11/21 16:47	EPA 200.8	
22392400-020CF21A (A1E0236-18)				Matrix: Drinking Water				
Batch: 1050346								
Lead	5.44	---	0.200	ug/L	1	05/11/21 16:51	EPA 200.8	
22392400-021BF21A (A1E0236-19)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.623	---	0.200	ug/L	1	05/11/21 17:03	EPA 200.8	
22392400-022DW21A (A1E0236-20)				Matrix: Drinking Water				
Batch: 1050346								
Lead	7.33	---	0.200	ug/L	1	05/11/21 17:06	EPA 200.8	

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Project Manager: Dale VoellerReport ID:
A1E0236 - 05 18 21 0843

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
22392400-023CF21A (A1E0236-21)				Matrix: Drinking Water				
Batch: 1050346								
Lead	4.02	---	0.200	ug/L	1	05/11/21 17:10	EPA 200.8	
22392400-024BF21A (A1E0236-22)				Matrix: Drinking Water				
Batch: 1050346								
Lead	0.491	---	0.200	ug/L	1	05/11/21 17:15	EPA 200.8	
22392400-025SF21A (A1E0236-23)				Matrix: Drinking Water				
Batch: 1050361								
Lead	6.70	---	0.200	ug/L	1	05/11/21 17:30	EPA 200.8	
22392400-026DW21A (A1E0236-24)				Matrix: Drinking Water				
Batch: 1050361								
Lead	3.81	---	0.200	ug/L	1	05/11/21 17:34	EPA 200.8	
22392400-027CF21A (A1E0236-25)				Matrix: Drinking Water				
Batch: 1050361								
Lead	8.71	---	0.200	ug/L	1	05/11/21 17:38	EPA 200.8	
22392400-028DW21A (A1E0236-26)				Matrix: Drinking Water				
Batch: 1050361								
Lead	1.46	---	0.200	ug/L	1	05/11/21 17:50	EPA 200.8	
22392400-029CF21A (A1E0236-27)				Matrix: Drinking Water				
Batch: 1050406								
Lead	11.1	---	0.222	ug/L	1	05/13/21 14:54	EPA 200.8	DW-D
22392400-030DW21A (A1E0236-28)				Matrix: Drinking Water				
Batch: 1050361								
Lead	77.5	---	0.200	ug/L	1	05/11/21 17:54	EPA 200.8	
22392400-031CF21A (A1E0236-29)				Matrix: Drinking Water				
Batch: 1050361								
Lead	8.37	---	0.200	ug/L	1	05/11/21 18:07	EPA 200.8	

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Project Number: 23440.116-0003 Main Buildi
Project Manager: Dale VoellerReport ID:
A1E0236 - 05 18 21 0843

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
22392400-032DW21A (A1E0236-30)				Matrix: Drinking Water				
Batch: 1050361								
Lead	3.21	---	0.200	ug/L	1	05/11/21 18:12	EPA 200.8	
22392400-033CF21A (A1E0236-31)				Matrix: Drinking Water				
Batch: 1050361								
Lead	13.8	---	0.200	ug/L	1	05/11/21 18:21	EPA 200.8	
22392400-034DW21A (A1E0236-32)				Matrix: Drinking Water				
Batch: 1050361								
Lead	10.7	---	0.200	ug/L	1	05/11/21 18:25	EPA 200.8	
22392400-036DW21A (A1E0236-33)				Matrix: Drinking Water				
Batch: 1050406								
Lead	26.6	---	0.222	ug/L	1	05/13/21 15:01	EPA 200.8	DW-D
22392400-037CF21A (A1E0236-34)				Matrix: Drinking Water				
Batch: 1050361								
Lead	5.09	---	0.200	ug/L	1	05/11/21 18:29	EPA 200.8	
22392400-038DW21A (A1E0236-35)				Matrix: Drinking Water				
Batch: 1050361								
Lead	5.55	---	0.200	ug/L	1	05/11/21 18:41	EPA 200.8	
22392400-039CF21A (A1E0236-36)				Matrix: Drinking Water				
Batch: 1050361								
Lead	7.49	---	0.200	ug/L	1	05/11/21 18:48	EPA 200.8	
22392400-040DW21A (A1E0236-37)				Matrix: Drinking Water				
Batch: 1050361								
Lead	3.71	---	0.200	ug/L	1	05/11/21 18:52	EPA 200.8	
22392400-041CF21A (A1E0236-38)				Matrix: Drinking Water				
Batch: 1050361								
Lead	4.43	---	0.200	ug/L	1	05/11/21 18:56	EPA 200.8	

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503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**
Project Number: **23440.116-0003 Main Buildi**
Project Manager: **Dale Voeller****Report ID:**
A1E0236 - 05 18 21 0843**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
22392400-046BF21A (A1E0236-39)				Matrix: Drinking Water				
Batch: 1050361								
Lead	6.18	---	0.200	ug/L	1	05/11/21 19:00	EPA 200.8	
22392400-047BF21A (A1E0236-40)				Matrix: Drinking Water				
Batch: 1050361								
Lead	2.07	---	0.200	ug/L	1	05/11/21 19:05	EPA 200.8	
22392400-048BF21A (A1E0236-41)				Matrix: Drinking Water				
Batch: 1050361								
Lead	3.87	---	0.200	ug/L	1	05/11/21 19:09	EPA 200.8	
22392400-049BF21A (A1E0236-42)				Matrix: Drinking Water				
Batch: 1050361								
Lead	2.98	---	0.200	ug/L	1	05/11/21 19:13	EPA 200.8	
22392400-050DW21A (A1E0236-43)				Matrix: Drinking Water				
Batch: 1050361								
Lead	8.03	---	0.200	ug/L	1	05/11/21 19:21	EPA 200.8	
22392400-051CF21A (A1E0236-44)				Matrix: Drinking Water				
Batch: 1050361								
Lead	3.59	---	0.200	ug/L	1	05/11/21 19:33	EPA 200.8	
22392400-052DW21A (A1E0236-45)				Matrix: Drinking Water				
Batch: 1050370								
Lead	1.83	---	0.200	ug/L	1	05/11/21 19:45	EPA 200.8	
22392400-053CF21A (A1E0236-46)				Matrix: Drinking Water				
Batch: 1050370								
Lead	4.18	---	0.200	ug/L	1	05/11/21 19:49	EPA 200.8	
22392400-055BF21A (A1E0236-47)				Matrix: Drinking Water				
Batch: 1050370								
Lead	7.77	---	0.200	ug/L	1	05/11/21 19:53	EPA 200.8	

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ANALYTICAL REPORT

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Project Number: 23440.116-0003 Main Buildi
Project Manager: Dale VoellerReport ID:
A1E0236 - 05 18 21 0843

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
22392400-057BF21A (A1E0236-48)				Matrix: Drinking Water				
Batch: 1050406								
Lead	10.9	---	0.222	ug/L	1	05/13/21 15:03	EPA 200.8	DW-D
22392400-060BF21A (A1E0236-49)				Matrix: Drinking Water				
Batch: 1050370								
Lead	2.77	---	0.200	ug/L	1	05/11/21 19:58	EPA 200.8	
22392400-062DW21A (A1E0236-50)				Matrix: Drinking Water				
Batch: 1050370								
Lead	8.25	---	0.200	ug/L	1	05/11/21 20:02	EPA 200.8	
22392400-063CF21A (A1E0236-51)				Matrix: Drinking Water				
Batch: 1050370								
Lead	5.19	---	0.200	ug/L	1	05/11/21 20:06	EPA 200.8	
22392400-064DW21A (A1E0236-52)				Matrix: Drinking Water				
Batch: 1050370								
Lead	3.62	---	0.200	ug/L	1	05/11/21 20:27	EPA 200.8	
22392400-065CF21A (A1E0236-53)				Matrix: Drinking Water				
Batch: 1050370								
Lead	4.14	---	0.200	ug/L	1	05/11/21 20:31	EPA 200.8	
22392400-066DW21A (A1E0236-54)				Matrix: Drinking Water				
Batch: 1050370								
Lead	5.16	---	0.200	ug/L	1	05/11/21 20:35	EPA 200.8	
22392400-067CF21A (A1E0236-55)				Matrix: Drinking Water				
Batch: 1050406								
Lead	15.4	---	0.222	ug/L	1	05/13/21 15:05	EPA 200.8	DW-D
22392400-068DW21A (A1E0236-56)				Matrix: Drinking Water				
Batch: 1050370								
Lead	6.74	---	0.200	ug/L	1	05/11/21 20:39	EPA 200.8	

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Project Number: 23440.116-0003 Main Buildi
Project Manager: Dale VoellerReport ID:
A1E0236 - 05 18 21 0843

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
22392400-069CF21A (A1E0236-57)				Matrix: Drinking Water				
Batch: 1050406								
Lead	16.6	---	0.222	ug/L	1	05/13/21 15:08	EPA 200.8	DW-D
22392400-070DW21A (A1E0236-58)				Matrix: Drinking Water				
Batch: 1050370								
Lead	7.50	---	0.200	ug/L	1	05/11/21 20:43	EPA 200.8	
22392400-071CF21A (A1E0236-59)				Matrix: Drinking Water				
Batch: 1050406								
Lead	38.7	---	0.222	ug/L	1	05/13/21 15:10	EPA 200.8	DW-D
22392400-072DW21A (A1E0236-60)				Matrix: Drinking Water				
Batch: 1050370								
Lead	1.83	---	0.200	ug/L	1	05/11/21 20:48	EPA 200.8	
22392400-073CF21A (A1E0236-61)				Matrix: Drinking Water				
Batch: 1050406								
Lead	59.5	---	0.222	ug/L	1	05/13/21 15:16	EPA 200.8	DW-D
22392400-074DW21A (A1E0236-62)				Matrix: Drinking Water				
Batch: 1050370								
Lead	4.05	---	0.200	ug/L	1	05/11/21 20:52	EPA 200.8	
22392400-075CF21A (A1E0236-63)				Matrix: Drinking Water				
Batch: 1050406								
Lead	48.1	---	0.222	ug/L	1	05/13/21 15:19	EPA 200.8	DW-D
22392400-076DW21A (A1E0236-64)				Matrix: Drinking Water				
Batch: 1050370								
Lead	2.01	---	0.200	ug/L	1	05/11/21 20:56	EPA 200.8	
22392400-077CF21A (A1E0236-65)				Matrix: Drinking Water				
Batch: 1050406								
Lead	132	---	0.222	ug/L	1	05/13/21 15:21	EPA 200.8	DW-D

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Project Manager: **Dale Voeller****Report ID:**
A1E0236 - 05 18 21 0843**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
22392400-078DW21A (A1E0236-66) Matrix: Drinking Water								
Batch: 1050370								
Lead	3.92	---	0.200	ug/L	1	05/11/21 21:00	EPA 200.8	
22392400-079CF21A (A1E0236-67) Matrix: Drinking Water								
Batch: 1050370								
Lead	3.67	---	0.200	ug/L	1	05/11/21 21:12	EPA 200.8	
22392400-080BF21A (A1E0236-68) Matrix: Drinking Water								
Batch: 1050370								
Lead	3.41	---	0.200	ug/L	1	05/11/21 21:16	EPA 200.8	
22392400-081DW21A (A1E0236-69) Matrix: Drinking Water								
Batch: 1050370								
Lead	7.43	---	0.200	ug/L	1	05/11/21 21:20	EPA 200.8	
22392400-082CF21A (A1E0236-70) Matrix: Drinking Water								
Batch: 1050370								
Lead	6.81	---	0.200	ug/L	1	05/11/21 21:25	EPA 200.8	
22392400-083BF21A (A1E0236-71) Matrix: Drinking Water								
Batch: 1050370								
Lead	0.730	---	0.200	ug/L	1	05/11/21 21:29	EPA 200.8	
22392400-084KF21A (A1E0236-72) Matrix: Drinking Water								
Batch: 1050374								
Lead	2.38	---	0.200	ug/L	1	05/11/21 21:44	EPA 200.8	
22392400-085KF21A (A1E0236-73) Matrix: Drinking Water								
Batch: 1050374								
Lead	1.66	---	0.200	ug/L	1	05/11/21 21:48	EPA 200.8	
22392400-086KF21A (A1E0236-74) Matrix: Drinking Water								
Batch: 1050374								
Lead	0.550	---	0.200	ug/L	1	05/11/21 22:00	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
22392400-087KF21A (A1E0236-75)				Matrix: Drinking Water				
Batch: 1050406								
Lead	0.310	---	0.222	ug/L	1	05/13/21 15:23	EPA 200.8	DW-D
22392400-088KF21A (A1E0236-76)				Matrix: Drinking Water				
Batch: 1050374								
Lead	1.67	---	0.200	ug/L	1	05/11/21 22:04	EPA 200.8	
22392400-089KF21A (A1E0236-77)				Matrix: Drinking Water				
Batch: 1050374								
Lead	13.0	---	0.200	ug/L	1	05/11/21 22:08	EPA 200.8	
22392400-090KF21A (A1E0236-78)				Matrix: Drinking Water				
Batch: 1050374								
Lead	47.0	---	0.200	ug/L	1	05/11/21 22:12	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 1050346 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1050346-BLK2)		Prepared: 05/11/21 10:42		Analyzed: 05/11/21 15:30								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (1050346-BS2)		Prepared: 05/11/21 10:42		Analyzed: 05/11/21 15:33								
<u>EPA 200.8</u>												
Lead	14.8	---	0.201	ug/L	1	15.0	---	98	85 - 115%	---	---	Q-16
Duplicate (1050346-DUP2)		Prepared: 05/11/21 10:42		Analyzed: 05/11/21 15:59								
<u>QC Source Sample: 22392400-006BF21A (A1E0236-06RE1)</u>												
<u>EPA 200.8</u>												
Lead	2.41	---	0.200	ug/L	1	---	2.38	---	---	1	20%	Q-16
Matrix Spike (1050346-MS2)		Prepared: 05/11/21 10:42		Analyzed: 05/11/21 17:18								
<u>QC Source Sample: 22392400-024BF21A (A1E0236-22)</u>												
<u>EPA 200.8</u>												
Lead	15.1	---	0.201	ug/L	1	15.0	0.491	97	70 - 130%	---	---	
Matrix Spike (1050346-MS3)		Prepared: 05/11/21 10:42		Analyzed: 05/11/21 16:03								
<u>QC Source Sample: 22392400-006BF21A (A1E0236-06RE1)</u>												
<u>EPA 200.8</u>												
Lead	17.2	---	0.201	ug/L	1	15.0	2.38	99	70 - 130%	---	---	Q-16
Batch 1050361 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1050361-BLK1)		Prepared: 05/11/21 13:03		Analyzed: 05/11/21 17:22								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (1050361-BS1)		Prepared: 05/11/21 13:03		Analyzed: 05/11/21 17:25								
<u>EPA 200.8</u>												
Lead	14.7	---	0.201	ug/L	1	15.0	---	98	85 - 115%	---	---	
Duplicate (1050361-DUP1)		Prepared: 05/11/21 13:03		Analyzed: 05/11/21 17:59								
<u>QC Source Sample: 22392400-030DW21A (A1E0236-28)</u>												

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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: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843**

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 1050361 - EPA 200.8 Direct Analysis							Drinking Water					
Duplicate (1050361-DUP1)		Prepared: 05/11/21 13:03 Analyzed: 05/11/21 17:59										
QC Source Sample: 22392400-030DW21A (A1E0236-28)												
EPA 200.8												
Lead	76.9	---	0.200	ug/L	1	---	77.5	---	---	0.8	20%	
Matrix Spike (1050361-MS2)		Prepared: 05/11/21 13:03 Analyzed: 05/11/21 19:17										
QC Source Sample: 22392400-049BF21A (A1E0236-42)												
EPA 200.8												
Lead	17.6	---	0.201	ug/L	1	15.0	2.98	97	70 - 130%	---	---	
Matrix Spike (1050361-MS3)		Prepared: 05/11/21 13:03 Analyzed: 05/11/21 18:17										
QC Source Sample: 22392400-030DW21A (A1E0236-28)												
EPA 200.8												
Lead	92.7	---	2.01	ug/L	10	15.0	77.5	101	70 - 130%	---	---	Q-16

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ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843**

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 1050370 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1050370-BLK1)		Prepared: 05/11/21 15:21		Analyzed: 05/11/21 19:38								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (1050370-BS1)		Prepared: 05/11/21 15:21		Analyzed: 05/11/21 19:41								
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	---	99	85 - 115%	---	---	
Duplicate (1050370-DUP1)		Prepared: 05/11/21 15:21		Analyzed: 05/11/21 20:10								
QC Source Sample: 22392400-063CF21A (A1E0236-51)												
EPA 200.8												
Lead	5.12	---	0.200	ug/L	1	---	5.19	---	---	1	20%	
Matrix Spike (1050370-MS1)		Prepared: 05/11/21 15:21		Analyzed: 05/11/21 20:22								
QC Source Sample: 22392400-063CF21A (A1E0236-51)												
EPA 200.8												
Lead	19.8	---	0.201	ug/L	1	15.0	5.19	97	70 - 130%	---	---	
Matrix Spike (1050370-MS2)		Prepared: 05/11/21 15:21		Analyzed: 05/11/21 21:32								
QC Source Sample: 22392400-083BF21A (A1E0236-71)												
EPA 200.8												
Lead	15.2	---	0.201	ug/L	1	15.0	0.730	96	70 - 130%	---	---	

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Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843**

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 1050374 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1050374-BLK1)		Prepared: 05/11/21 17:34 Analyzed: 05/11/21 21:36										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (1050374-BS1)		Prepared: 05/11/21 17:34 Analyzed: 05/11/21 21:40										
EPA 200.8												
Lead	14.6	---	0.201	ug/L	1	15.0	---	97	85 - 115%	---	---	
Duplicate (1050374-DUP1)		Prepared: 05/11/21 17:34 Analyzed: 05/11/21 22:17										
QC Source Sample: 22392400-090KF21A (A1E0236-78)												
EPA 200.8												
Lead	47.9	---	0.200	ug/L	1	---	47.0	---	---	2	20%	
Matrix Spike (1050374-MS1)		Prepared: 05/11/21 17:34 Analyzed: 05/11/21 22:21										
QC Source Sample: 22392400-090KF21A (A1E0236-78)												
EPA 200.8												
Lead	61.6	---	0.201	ug/L	1	15.0	47.0	98	70 - 130%	---	---	

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ORELAP ID: OR100062

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4412 S Corbett Ave

Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: 23440.116-0003 Main Buildi

Project Manager: Dale Voeller

Report ID:

A1E0236 - 05 18 21 0843

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 1050406 - EPA 3015A						Drinking Water						
Blank (1050406-BLK1)		Prepared: 05/12/21 11:44 Analyzed: 05/13/21 14:50										
EPA 200.8												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	
LCS (1050406-BS1)		Prepared: 05/12/21 11:44 Analyzed: 05/13/21 14:52										
EPA 200.8												
Lead	16.3	---	0.222	ug/L	1	16.7	---	98	85 - 115%	---	---	
Duplicate (1050406-DUP1)		Prepared: 05/12/21 11:44 Analyzed: 05/13/21 14:56										
QC Source Sample: 22392400-029CF21A (A1E0236-27)												
EPA 200.8												
Lead	11.1	---	0.222	ug/L	1	---	11.1	---	---	0.5	20%	DW-D
Matrix Spike (1050406-MS1)		Prepared: 05/12/21 11:44 Analyzed: 05/13/21 14:58										
QC Source Sample: 22392400-029CF21A (A1E0236-27)												
EPA 200.8												
Lead	26.7	---	0.222	ug/L	1	16.7	11.1	93	70 - 130%	---	---	DW-D

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503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**
Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843****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: 1050346</u>							
A1E0236-01RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-02RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-03RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-04RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-05RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-06RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-07RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-08RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-09RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-10RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-13RE1	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-14	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-15	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-16	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-17	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-18	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-19	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-20	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-21	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
A1E0236-22	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 10:42	10mL/10mL	10mL/10mL	1.00
<u>Batch: 1050361</u>							
A1E0236-23	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-24	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-25	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-26	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-28	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-29	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-30	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-31	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-32	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-34	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-35	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-36	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-37	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-38	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-39	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843****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
A1E0236-40	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-41	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-42	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-43	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00
A1E0236-44	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 13:03	10mL/10mL	10mL/10mL	1.00

Batch: 1050370

A1E0236-45	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-46	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-47	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-49	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-50	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-51	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-52	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-53	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-54	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-56	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-58	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-60	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-62	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-64	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-66	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-67	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-68	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-69	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-70	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00
A1E0236-71	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 15:21	10mL/10mL	10mL/10mL	1.00

Batch: 1050374

A1E0236-72	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 17:34	10mL/10mL	10mL/10mL	1.00
A1E0236-73	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 17:34	10mL/10mL	10mL/10mL	1.00
A1E0236-74	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 17:34	10mL/10mL	10mL/10mL	1.00
A1E0236-76	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 17:34	10mL/10mL	10mL/10mL	1.00
A1E0236-77	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 17:34	10mL/10mL	10mL/10mL	1.00
A1E0236-78	Drinking Water	EPA 200.8	05/01/21 00:00	05/11/21 17:34	10mL/10mL	10mL/10mL	1.00

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
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ANALYTICAL REPORT

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ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116-0003 Main Buildi**

Project Manager: **Dale Voeller**

Report ID:

A1E0236 - 05 18 21 0843

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 1050406</u>							
A1E0236-27	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-33	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-48	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-55	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-57	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-59	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-61	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-63	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-65	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11
A1E0236-75	Drinking Water	EPA 200.8	05/01/21 00:00	05/12/21 11:44	45mL/50mL	10mL/10mL	1.11

Apex Laboratories

Lisa Domenighini, Client Services Manager

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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: L.C. Tobias Elementary School

Project Number: 23440.116-0003 Main Buildi
Project Manager: Dale Voeller

Report ID:

A1E0236 - 05 18 21 0843

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.

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Project Manager: **Dale Voeller**

Report ID:
A1E0236 - 05 18 21 0843

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Project Number: **23440.116-0003 Main Buildi**
Project Manager: **Dale Voeller**

Report ID:
A1E0236 - 05 18 21 0843

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

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Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116-0003 Main Buildi**

Project Manager: **Dale Voeller**

Report ID:

A1E0236 - 05 18 21 0843

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.

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843**

A1E0236

HILLSBORO SCHOOL DISTRICT

Lead in Drinking Water Testing ProgramDate Collected: 05/01/2021PBS Project: 23440.116 / 0003School Name: L.C. Tobias Elementary SchoolBuilding: Main BuildingBuilding Number: 22392400Analysis Requested: Lead (Pb) in Drinking WaterRelinquished By/Signature: [Signature]Date/Time: 5/1/21Received By/Signature: [Signature]Date/Time: 5-3-21 / 1325Email Results To: voeller@pbsusa.comTurnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
1	001	22392400-001NS21A	Health Room Sink
2	002	22392400-002SF21A	Staff Lounge Sink
3	003	22392400-003SF21A	Staff Lounge Filtered Water Faucet
4	004	22392400-004BF21A	Mens Staff Restroom - Left Sink
5	005	22392400-005BF21A	Mens Staff Restroom - Right Sink
6	006	22392400-006BF21A	Womens Staff Restroom - Left Sink
7	007	22392400-007BF21A	Womens Staff Restroom - Right Sink
8	008	22392400-008BF21A	Girls RR in Hall to Music Rm, Multi-Head Sink - Left to Right (1)
9	009		
10	010		
11	011	22392400-011BF21A	Girls RR in Hall to Music Rm, Multi-Head Sink - Left to Right (4)
12	012	22392400-012BF21A	Boys RR in Hall to Music Rm, Multi-Head Sink - Left to Right (1)
13	013	22392400-013BF21A	Boys RR in Hall to Music Rm, Multi-Head Sink - Left to Right (2)
14	014	22392400-014BF21A	Boys RR in Hall to Music Rm, Multi-Head Sink - Left to Right (3)
15	015	22392400-015BF21A	Boys RR in Hall to Music Rm, Multi-Head Sink - Left to Right (4)
16	016	22392400-016DW21A	Hall at Door to Room 22 (Music), Drinking Fountain
17	017	22392400-017DW21A	Room 22 (Music) Drinking Fountain
18	018	22392400-018CF21A	Room 22 (Music) Sink Faucet
19	019	22392400-019DW21A	Room 2 Drinking Fountain
20	020	22392400-020CF21A	Room 2 Classroom Faucet

1 of 5

Apex Laboratories

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Lisa Domenighini, Client Services Manager

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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: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843**

Lead in Drinking Water Testing Program

A1E0236

Lead in Drinking Water Testing ProgramDate Collected: 05/01/2021PBS Project: 23440.116 / 0003School Name: L.C. Tobias Elementary SchoolBuilding: Main BuildingBuilding Number: 22392400Analysis Requested: Lead (Pb) in Drinking WaterRelinquished By/Signature: [Signature]Date/Time: 5/1/21Received By/Signature: [Signature]Date/Time: 5-3-21 / 1325Email Results To: voeller@pbsusa.comTurnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
21	021	22392400-021BF21A	Room 2 Restroom Sink
22	022	22392400-022DW21A	Room 4 Drinking Fountain
23	023	22392400-023CF21A	Room 4 Classroom Faucet
24	024	22392400-024BF21A	Room 4 Restroom Sink
25	025	22392400-025SF21A	Server Room Sink Faucet
26	026	22392400-026DW21A	Room 12 Drinking Fountain
27	027	22392400-027CF21A	Room 12 Classroom Faucet
28	028	22392400-028DW21A	Room 14 Drinking Fountain
29	029	22392400-029CF21A	Room 14 Classroom Faucet
30	030	22392400-030DW21A	Room 16 Drinking Fountain
31	031	22392400-031CF21A	Room 16 Classroom Faucet
32	032	22392400-032DW21A	Room 18 Drinking Fountain
33	033	22392400-033CF21A	Room 18 Classroom Faucet
34	034	22392400-034DW21A	Room 20 Drinking Fountain
35	035		
36	036	22392400-036DW21A	Room 23 Drinking Fountain
37	037	22392400-037CF21A	Room 23 Classroom Faucet
38	038	22392400-038DW21A	Room 21 Drinking Fountain
39	039	22392400-039CF21A	Room 21 Classroom Faucet
40	040	22392400-040DW21A	Room 19 Drinking Fountain



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Apex Laboratories

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Lisa Domenighini, Client Services Manager

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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 97239Project: **L.C. Tobias Elementary School**Project Number: **23440.116-0003 Main Buildi**Project Manager: **Dale Voeller****Report ID:****A1E0236 - 05 18 21 0843**

Lead in Drinking Water Testing Program

A1E0236

Lead in Drinking Water Testing ProgramDate Collected: 05/01/2021PBS Project: 23440.116 / 0003School Name: L.C. Tobias Elementary SchoolBuilding: Main BuildingBuilding Number: 22392400Analysis Requested: Lead (Pb) in Drinking WaterRelinquished By/Signature: [Signature]Date/Time: 5/1/21Received By/Signature: [Signature]Date/Time: 5-3-21 / 1325Email Results To: voeller@pbsusa.comTurnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
41	041	22392400-041CF21A	Room 19 Classroom Faucet
42	042		
43	043		
44	044		
45	045		
46	046	22392400-046BF21A	Boys RR at Rm 19, Multi-Head Sink - Left to Right (1)
47	047	22392400-047BF21A	Boys RR at Rm 19, Multi-Head Sink - Left to Right (2)
48	048	22392400-048BF21A	Boys RR at Rm 19, Multi-Head Sink - Left to Right (3)
49	049	22392400-049BF21A	Boys RR at Rm 19, Multi-Head Sink - Left to Right (4)
50	050	22392400-050DW21A	Room 6 Drinking Fountain
51	051	22392400-051CF21A	Room 6 Classroom Faucet
52	052	22392400-052DW21A	Room 8 Drinking Fountain
53	053	22392400-053CF21A	Room 8 Classroom Faucet
54	054		
55	055	22392400-055BF21A	Boys RR at Rm 9, Multi-Head Sink - Left to Right (2)
56	056		
57	057	22392400-057BF21A	Boys RR at Rm 9, Multi-Head Sink - Left to Right (4)
58	058		
59	059		
60	060	22392400-060BF21A	Girls RR at Rm 9, Multi-Head Sink - Left to Right (3)



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Apex Laboratories

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503-718-2323

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PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116-0003 Main Buildi**

Project Manager: **Dale Voeller**

Report ID:

A1E0236 - 05 18 21 0843

Lead in Drinking Water Testing Program

A1E0236

Lead in Drinking Water Testing Program

Date Collected: 05/01/2021

PBS Project: 23440.116 / 0003

School Name: L.C. Tobias Elementary School

Building: Main Building

Building Number: 22392400

Analysis Requested: Lead (Pb) in Drinking Water

Relinquished By/Signature: Dale Voeller

Date/Time: 5/1/21

Received By/Signature: Dale Voeller

Date/Time: 5-3-21/1325

Email Results To: voeller@pbsusa.com

Turnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
61	061		
62	062	22392400-062DW21A	Room 10 Drinking Fountain
63	063	22392400-063CF21A	Room 10 Classroom Faucet
64	064	22392400-064DW21A	Room 17 Drinking Fountain
65	065	22392400-065CF21A	Room 17 Classroom Faucet
66	066	22392400-066DW21A	Room 15 Drinking Fountain
67	067	22392400-067CF21A	Room 15 Classroom Faucet
68	068	22392400-068DW21A	Room 13 Drinking Fountain
69	069	22392400-069CF21A	Room 13 Classroom Faucet
70	070	22392400-070DW21A	Room 11 Drinking Fountain
71	071	22392400-071CF21A	Room 11 Classroom Faucet
72	072	22392400-072DW21A	Room 9 Drinking Fountain
73	073	22392400-073CF21A	Room 9 Classroom Faucet
74	074	22392400-074DW21A	Room 7 Drinking Fountain
75	075	22392400-075CF21A	Room 7 Classroom Faucet
76	076	22392400-076DW21A	Room 5 Drinking Fountain
77	077	22392400-077CF21A	Room 5 Classroom Faucet
78	078	22392400-078DW21A	Room 3 Drinking Fountain
79	079	22392400-079CF21A	Room 3 Classroom Faucet
80	080	22392400-080BF21A	Room 3 Restroom Sink



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Apex Laboratories

Lisa Domenighini

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Lead in Drinking Water Testing Program

A1E0236**Lead in Drinking Water Testing Program**Date Collected: 05/01/2021PBS Project: 23440.116 / 0003School Name: L.C. Tobias Elementary SchoolBuilding: Main BuildingBuilding Number: 22392400Analysis Requested: Lead (Pb) in Drinking WaterRelinquished By/Signature: [Signature]Date/Time: 5/1/21Received By/Signature: [Signature]Date/Time: 5-3-21/1325Email Results To: voeller@pbsusa.comTurnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
81	081	22392400-081DW21A	Room 1 Drinking Fountain
82	082	22392400-082CF21A	Room 1 Classroom Faucet
83	083	22392400-083BF21A	Restroom in Pantry Area, Sink Faucet
84	084	22392400-084KF21A	Kitchen, Triple Sink at West Wall - Left Faucet
85	085	22392400-085KF21A	Kitchen, Triple Sink at West Wall - Right Faucet
86	086	22392400-086KF21A	Kitchen, Handwash Sink at North Wall
87	087	22392400-087KF21A	Kitchen, Sprayer at North Double Prep Sink/Disposal
88	088	22392400-088KF21A	Kitchen, Faucet at North Double Prep Sink
89	089	22392400-089KF21A	Kitchen, Warmer Tray Faucet - Left (North)
90	090	22392400-090KF21A	Kitchen, Warmer Tray Faucet -Right (South)
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			



5 of 5

Apex Laboratories

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Project Number: 23440.116-0003 Main Buildi

Project Manager: Dale Voeller

Report ID:

A1E0236 - 05 18 21 0843

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A1 ED2310Project/Project #: L.C. Tobias Elementary School - Main Building / ^{MM S-3} 23440-01 23440.116/0003

Delivery Info:

Date/time received: 5-3-21 @ 1325 By: MMDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 5-3-21 @ 1355 By: MMChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>21.0</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:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: drinking water for leadGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 5/1/21 @ 1551 By: MMAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: No T on CoC/containers, 22392400-013BF21A + 22392400-014BF21A listed on CoC but no containers receivedCOC/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: 22392400-026DW21A pH=7

Additional information:

Labeled by:

MM

Witness:

MM

Cooler Inspected by:

MM

Apex Laboratories

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Lisa Domenighini

Lisa Domenighini, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Wednesday, June 9, 2021

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A1E1175 - L.C. Tobias Elementary School - Main Building-23440.116-0003

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 A1E1175, which was received by the laboratory on 5/24/2021 at 10:22:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@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)

Cooler #1

18.7 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

Kevin Friscia, 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

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **Main Building-23440.116-00**Project Manager: **Dale Voeller****Report ID:****A1E1175 - 06 09 21 1613****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392400-030DW21B	A1E1175-01	Drinking Water	05/23/21 00:00	05/24/21 10:22
22392400-036DW21B	A1E1175-02	Drinking Water	05/23/21 00:00	05/24/21 10:22
22392400-067CF21B	A1E1175-03	Drinking Water	05/23/21 00:00	05/24/21 10:22
22392400-071CF21B	A1E1175-04	Drinking Water	05/23/21 00:00	05/24/21 10:22
22392400-073CF21B	A1E1175-05	Drinking Water	05/23/21 00:00	05/24/21 10:22
22392400-075CF21B	A1E1175-06	Drinking Water	05/23/21 00:00	05/24/21 10:22
22392400-077CF21B	A1E1175-07	Drinking Water	05/23/21 00:00	05/24/21 10:22

Apex Laboratories

Kevin Friscia, Project Manager

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503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**
Project Number: **Main Building-23440.116-00**
Project Manager: **Dale Voeller****Report ID:**
A1E1175 - 06 09 21 1613**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
22392400-030DW21B (A1E1175-01)				Matrix: Drinking Water				
Batch: 1060275								
Lead	3.01	---	0.200	ug/L	1	06/05/21 00:52	EPA 200.8	
22392400-036DW21B (A1E1175-02)				Matrix: Drinking Water				
Batch: 1060275								
Lead	4.09	---	0.200	ug/L	1	06/05/21 00:56	EPA 200.8	
22392400-067CF21B (A1E1175-03)				Matrix: Drinking Water				
Batch: 1060275								
Lead	12.5	---	0.200	ug/L	1	06/05/21 01:09	EPA 200.8	
22392400-071CF21B (A1E1175-04)				Matrix: Drinking Water				
Batch: 1060275								
Lead	7.69	---	0.200	ug/L	1	06/05/21 01:13	EPA 200.8	
22392400-073CF21B (A1E1175-05)				Matrix: Drinking Water				
Batch: 1060275								
Lead	24.7	---	0.200	ug/L	1	06/05/21 01:22	EPA 200.8	
22392400-075CF21B (A1E1175-06)				Matrix: Drinking Water				
Batch: 1060275								
Lead	1.20	---	0.200	ug/L	1	06/05/21 01:27	EPA 200.8	
22392400-077CF21B (A1E1175-07)				Matrix: Drinking Water				
Batch: 1060275								
Lead	3.95	---	0.200	ug/L	1	06/05/21 01:31	EPA 200.8	

Apex Laboratories

Kevin Friscia, 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**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**Project Number: **Main Building-23440.116-00**Project Manager: **Dale Voeller****Report ID:****A1E1175 - 06 09 21 1613****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 1060275 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1060275-BLK1)		Prepared: 06/04/21 19:20		Analyzed: 06/04/21 23:29								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (1060275-BS1)		Prepared: 06/04/21 19:20		Analyzed: 06/04/21 23:33								
EPA 200.8												
Lead	14.2	---	0.201	ug/L	1	15.0	---	95	85 - 115%	---	---	
Matrix Spike (1060275-MS2)		Prepared: 06/04/21 19:20		Analyzed: 06/05/21 01:18								
QC Source Sample: 22392400-071CF21B (A1E1175-04)												
EPA 200.8												
Lead	21.6	---	0.201	ug/L	1	15.0	7.69	93	70 - 130%	---	---	

Apex Laboratories

Kevin Friscia, Project Manager

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **Main Building-23440.116-00**

Project Manager: **Dale Voeller**

Report ID:

A1E1175 - 06 09 21 1613

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: 1060275</u>							
A1E1175-01	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00
A1E1175-02	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00
A1E1175-03	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00
A1E1175-04	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00
A1E1175-05	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00
A1E1175-06	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00
A1E1175-07	Drinking Water	EPA 200.8	05/23/21 00:00	06/04/21 19:20	10mL/10mL	10mL/10mL	1.00

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Project: L.C. Tobias Elementary School

Project Number: Main Building-23440.116-00

Project Manager: Dale Voeller

Report ID:

A1E1175 - 06 09 21 1613

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

Kevin Friscia, Project Manager

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Project Number: **Main Building-23440.116-00**

Project Manager: **Dale Voeller**

Report ID:

A1E1175 - 06 09 21 1613

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

Kevin Friscia, Project Manager

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Project Manager: **Dale Voeller**

Report ID:
A1E1175 - 06 09 21 1613

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Kevin Friscia, Project Manager

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Project: **L.C. Tobias Elementary School**
Project Number: **Main Building-23440.116-00**
Project Manager: **Dale Voeller**

Report ID:
A1E1175 - 06 09 21 1613

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.

Apex Laboratories

Kevin Friscia, Project Manager

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Project Manager: **Dale Voeller**

Report ID:

A1E1175 - 06 09 21 1613



A1E1175
HILLSBORO SCHOOL DISTRICT

Lead in Drinking Water Testing Program

Date Collected: 05/23/2021

PBS Project: 23440.116 / 0003

School Name: L.C. Tobias Elementary School

Building: Main Building

Building Number: 22392400

Analysis Requested: Lead (Pb) in Drinking Water

Relinquished By/Signature: [Signature]

Date/Time: 5/23/21

Received By/Signature: [Signature]

Date/Time: 5/24/21 1022

Email Results To: voeller@pbsusa.com

Turnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
1	030	22392400-030DW21B	Room 16 Drinking Fountain
2	036	22392400-036DW21B	Room 23 Drinking Fountain
3	067	22392400-067CF21B	Room 15 Classroom Faucet
4	071	22392400-071CF21B	Room 11 Classroom Faucet
5	073	22392400-073CF21B	Room 9 Classroom Faucet
6	075	22392400-075CF21B	Room 7 Classroom Faucet
7	077	22392400-077CF21B	Room 5 Classroom Faucet
8			
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1 of 1

Apex Laboratories

Kevin Friscia, Project Manager

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ORELAP ID: OR100062

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4412 S Corbett Ave

Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: Main Building-23440.116-00

Project Manager: Dale Voeller

Report ID:

A1E1175 - 06 09 21 1613

APEX LABS COOLER RECEIPT FORM

Client: DBS Element WO#: A1 E1175Project/Project #: L.C. Tobias Elementary School 23440.116/0003

Delivery Info:

Date/time received: 5/24/21 @ 1022 By: EJDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 5/24/21 @ 1048 By: EJChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>18.7</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>NA</u>						
Condition:	<u>OUT</u>						

Cooler out of temp? ☒ (Y/N) Possible reason why: Drinking WaterGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 6/11/21 @ 1025 By: 8UAll 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: 8U Witness: JS Cooler Inspected by: 8U

Apex Laboratories

Kevin Friscia, 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

Tuesday, July 6, 2021

Dale Voeller

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

RE: A1F0916 - L.C. Tobias Elementary School - 23440.116/0003

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 A1F0916, which was received by the laboratory on 6/21/2021 at 10:15:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@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)

Cooler #1

23.8 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

Kevin Friscia, 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**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **L.C. Tobias Elementary School**Project Number: 23440.116/0003
Project Manager: Dale Voeller**Report ID:**

A1F0916 - 07 06 21 1255

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392400-042BF21A	A1F0916-01	Drinking Water	06/18/21 00:00	06/21/21 10:15
22392400-045BF21A	A1F0916-02	Drinking Water	06/18/21 00:00	06/21/21 10:15
22392400-069CF21B	A1F0916-03	Drinking Water	06/18/21 00:00	06/21/21 10:15
22392400-073CF21C	A1F0916-04	Drinking Water	06/18/21 00:00	06/21/21 10:15
22392400-090KF21B	A1F0916-05	Drinking Water	06/18/21 00:00	06/21/21 10:15

Apex Laboratories

Kevin Friscia, 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

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **23440.116/0003**Project Manager: **Dale Voeller****Report ID:****A1F0916 - 07 06 21 1255****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
22392400-042BF21A (A1F0916-01)				Matrix: Drinking Water				
Batch: 1061158								
Lead	0.910	---	0.200	ug/L	1	06/30/21 15:43	EPA 200.8	
22392400-045BF21A (A1F0916-02)				Matrix: Drinking Water				
Batch: 1061158								
Lead	0.659	---	0.200	ug/L	1	06/30/21 15:46	EPA 200.8	
22392400-069CF21B (A1F0916-03)				Matrix: Drinking Water				
Batch: 1061158								
Lead	1.09	---	0.200	ug/L	1	06/30/21 15:50	EPA 200.8	
22392400-073CF21C (A1F0916-04)				Matrix: Drinking Water				
Batch: 1061158								
Lead	5.05	---	0.200	ug/L	1	06/30/21 16:01	EPA 200.8	
22392400-090KF21B (A1F0916-05)				Matrix: Drinking Water				
Batch: 1061158								
Lead	0.442	---	0.200	ug/L	1	06/30/21 16:05	EPA 200.8	

Apex Laboratories

Kevin Friscia, Project Manager

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ANALYTICAL REPORT

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ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **23440.116/0003**Project Manager: **Dale Voeller****Report ID:****A1F0916 - 07 06 21 1255**

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 1061158 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1061158-BLK1)		Prepared: 06/25/21 16:48		Analyzed: 06/30/21 15:16								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (1061158-BS1)		Prepared: 06/25/21 16:48		Analyzed: 06/30/21 15:20								
EPA 200.8												
Lead	14.9	---	0.201	ug/L	1	15.0	---	99	85 - 115%	---	---	
Duplicate (1061158-DUP1)		Prepared: 06/25/21 16:48		Analyzed: 06/30/21 15:53								
QC Source Sample: 22392400-069CF21B (A1F0916-03)												
EPA 200.8												
Lead	1.10	---	0.200	ug/L	1	---	1.09	---	---	1	20%	
Matrix Spike (1061158-MS1)		Prepared: 06/25/21 16:48		Analyzed: 06/30/21 15:57								
QC Source Sample: 22392400-069CF21B (A1F0916-03)												
EPA 200.8												
Lead	15.8	---	0.201	ug/L	1	15.0	1.09	98	70 - 130%	---	---	

Apex Laboratories

Kevin Friscia, Project Manager

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116/0003**

Project Manager: **Dale Voeller**

Report ID:

A1F0916 - 07 06 21 1255

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: 1061158</u>							
A1F0916-01	Drinking Water	EPA 200.8	06/18/21 00:00	06/25/21 16:48	10mL/10mL	10mL/10mL	1.00
A1F0916-02	Drinking Water	EPA 200.8	06/18/21 00:00	06/25/21 16:48	10mL/10mL	10mL/10mL	1.00
A1F0916-03	Drinking Water	EPA 200.8	06/18/21 00:00	06/25/21 16:48	10mL/10mL	10mL/10mL	1.00
A1F0916-04	Drinking Water	EPA 200.8	06/18/21 00:00	06/25/21 16:48	10mL/10mL	10mL/10mL	1.00
A1F0916-05	Drinking Water	EPA 200.8	06/18/21 00:00	06/25/21 16:48	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Kevin Friscia, Project Manager

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Project: L.C. Tobias Elementary School

Project Number: 23440.116/0003

Project Manager: Dale Voeller

Report ID:

A1F0916 - 07 06 21 1255

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

A handwritten signature in black ink, appearing to read "Kevin Friscia".

Kevin Friscia, Project Manager

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PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116/0003**

Project Manager: **Dale Voeller**

Report ID:

A1F0916 - 07 06 21 1255

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

Kevin Friscia, 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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116/0003**
Project Manager: **Dale Voeller**

Report ID:
A1F0916 - 07 06 21 1255

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Kevin Friscia, Project Manager

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PBS Engineering and Environmental
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Portland, OR 97239

Project: **L.C. Tobias Elementary School**
Project Number: **23440.116/0003**
Project Manager: **Dale Voeller**

Report ID:
A1F0916 - 07 06 21 1255

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.

Apex Laboratories

Kevin Friscia, Project Manager

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4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116/0003**

Project Manager: **Dale Voeller**

Report ID:

A1F0916 - 07 06 21 1255



HILLSBORO SCHOOL DISTRICT

Lead in Drinking Water Testing Program

Date Collected: 06/18/2021

PBS Project: 23440.116 / 0003

School Name: L.C. Tobias Elementary School

Building: Main Building

Building Number: 22392400

Analysis Requested: Lead (Pb) in Drinking Water

Relinquished By/Signature: [Signature]

Date/Time: 6/20/21

Received By/Signature: [Signature] APEX LABS

Date/Time: 6/21/21 1015

Email Results To: voeller@pbsusa.com

Turnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
1	042	22392400-042BF21A	Girls RR at Rm 19, Multi-Head Sink - Left to Right (1)
2	045	22392400-045BF21A	Girls RR at Rm 19, Multi-Head Sink - Left to Right (4)
3	069	22392400-069CF21B	Room 13 Classroom Faucet
4	073	22392400-073CF21C	Room 9 Classroom Faucet
5	090	22392400-090KF21B	Kitchen, Warmer Tray Faucet -Right (South)
6			
7			
8			
9			
10			
11			
12			
13			
14			
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16			
17			
18			
19			
20			

1 of 1

Apex Laboratories

[Signature]

Kevin Friscia, 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

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: 23440.116/0003

Project Manager: Dale Voeller

Report ID:

A1F0916 - 07 06 21 1255

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A1 F0916

Project/Project #: L.C. Tobias Elementary School Main Building 23440.116/0003

Delivery Info:

Date/time received: 6/21/21 @ 1015 By: ET

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

Cooler Inspection Date/time inspected: 6/21/21 @ 1055 By: ET

Chain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	23.8						
Received on ice? (Y/N)	N						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	NA						
Condition:	OUT						

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: 6/23/21 @ 1347 By: HAS

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: HAS Witness: TMA Cooler Inspected by: HAS

Apex Laboratories

Kevin Friscia, 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

Wednesday, September 22, 2021

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

RE: A1I0308 - L.C. Tobias Elementary School - 23440.116/0003

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 A1I0308, which was received by the laboratory on 9/7/2021 at 1:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@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)

Cooler #1	24.2 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



Apex Laboratories

Kevin Friscia, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: 23440.116/0003

Project Manager: Dale Voeller

Report ID:

A110308 - 09 22 21 0911

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392400-034DW21B	A110308-01	Drinking Water	09/02/21 00:00	09/07/21 13:00
22392400-035CF21A	A110308-02	Drinking Water	09/02/21 00:00	09/07/21 13:00

Apex Laboratories

Kevin Friscia, 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

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **23440.116/0003**Project Manager: **Dale Voeller****Report ID:****A110308 - 09 22 21 0911****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
22392400-034DW21B (A1I0308-01)				Matrix: Drinking Water				
Batch: 1090558								
Lead	5.47	---	0.200	ug/L	1	09/15/21 19:09	EPA 200.8	
22392400-035CF21A (A1I0308-02)				Matrix: Drinking Water				
Batch: 1090673								
Lead	0.975	---	0.222	ug/L	1	09/20/21 20:10	EPA 200.8	DW-D

Apex Laboratories

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Project: **L.C. Tobias Elementary School**Project Number: **23440.116/0003**Project Manager: **Dale Voeller****Report ID:****A110308 - 09 22 21 0911**

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 1090558 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (1090558-BLK1)		Prepared: 09/15/21 13:35		Analyzed: 09/15/21 16:18								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (1090558-BS1)		Prepared: 09/15/21 13:35		Analyzed: 09/15/21 16:21								
EPA 200.8												
Lead	14.3	---	0.201	ug/L	1	15.0	---	96	85 - 115%	---	---	
Batch 1090673 - EPA 3015A							Drinking Water					
Blank (1090673-BLK1)		Prepared: 09/17/21 11:52		Analyzed: 09/20/21 19:44								
EPA 200.8												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	
LCS (1090673-BS1)		Prepared: 09/17/21 11:52		Analyzed: 09/20/21 19:49								
EPA 200.8												
Lead	17.6	---	0.222	ug/L	1	16.7	---	106	85 - 115%	---	---	
Duplicate (1090673-DUP1)		Prepared: 09/17/21 11:52		Analyzed: 09/20/21 20:15								
QC Source Sample: 22392400-035CF21A (A110308-02)												
EPA 200.8												
Lead	0.991	---	0.222	ug/L	1	---	0.975	---	---	2	20%	DW-D
Matrix Spike (1090673-MS1)		Prepared: 09/17/21 11:52		Analyzed: 09/20/21 20:20								
QC Source Sample: 22392400-035CF21A (A110308-02)												
EPA 200.8												
Lead	17.4	---	0.222	ug/L	1	16.7	0.975	99	70 - 130%	---	---	DW-D

Apex Laboratories

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **L.C. Tobias Elementary School**Project Number: **23440.116/0003**Project Manager: **Dale Voeller****Report ID:****A110308 - 09 22 21 0911****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: 1090558</u>							
A110308-01	Drinking Water	EPA 200.8	09/02/21 00:00	09/15/21 13:35	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: 1090673</u>							
A110308-02	Drinking Water	EPA 200.8	09/02/21 00:00	09/17/21 11:52	45mL/50mL	10mL/10mL	1.11

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Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: 23440.116/0003
Project Manager: Dale Voeller

Report ID:

A110308 - 09 22 21 0911

QUALIFIER DEFINITIONS

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

Apex Laboratories

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

Apex Laboratories

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Project: **L.C. Tobias Elementary School**

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Project Manager: **Dale Voeller**

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A110308 - 09 22 21 0911

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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- 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.

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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.
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QC Source:

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Apex Laboratories

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Project Manager: **Dale Voeller**

Report ID:
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REPORTING NOTES AND CONVENTIONS (Cont.):

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503-718-2323
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PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **L.C. Tobias Elementary School**

Project Number: **23440.116/0003**

Project Manager: **Dale Voeller**

Report ID:

A110308 - 09 22 21 0911

LABORATORY ACCREDITATION INFORMATION

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EPA ID: OR01039

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Apex Laboratories

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Apex Laboratories

Kevin Friscia, Project Manager

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Project: **L.C. Tobias Elementary School**

Project Number: **23440.116/0003**

Project Manager: **Dale Voeller**

Report ID:

A110308 - 09 22 21 0911



A110308

HILLSBORO SCHOOL DISTRICT

Lead in Drinking Water Testing Program

Date Collected: 09/02/2021

PBS Project: 23440.116 / 0003

School Name: L.C. Tobias Elementary School

Building: Main Building

Building Number: 22392400

Analysis Requested: Lead (Pb) in Drinking Water

Relinquished By/Signature: [Signature]

Date/Time: 9/4/21

Received By/Signature: [Signature] APEX LABS

Date/Time: 9/7/21 1300

Email Results To: voeller@pbsusa.com

Turnaround Time: 10 - Day

	Fixture Number	Sample Number	Room / Location
1	034	22392400-034DW21B	Room 20 Drinking Fountain
2	035	22392400-035CF21A	Room 20 Classroom Faucet
3			
4			
5			
6			
7			
8			
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1 of 1

Apex Laboratories

Kevin Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: L.C. Tobias Elementary School

Project Number: 23440.116/0003

Project Manager: Dale Voeller

Report ID:

A110308 - 09 22 21 0911

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A1 I0308
Project/Project #: L.C. Tobias Elementary School main Building 23440.116/0003

Delivery Info:

Date/time received: 9/7/21 @ 1300 By: EJ
Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Date/time inspected: 9/7/21 @ 1322 By: EJ

Chain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒

Signed/dated by client? Yes ☒ No ☐

Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>24.2</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>NA</u>						
Condition:	<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: 9/7/21 @ 1920 By: HAS

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: HAS Witness: lv Cooler Inspected by: HAS

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