

December 30, 2024

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

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

Regarding: Drinking Water Sampling Report
Liberty High School
7445 NE Wagon Drive
Hillsboro, OR 97124
PBS Project 23440.190 / 0004

Dear Mr. Wenzloff:

On April 27 through June 7, 2024, PBS Engineering and Environmental LLC (PBS) performed drinking water sampling at Liberty High School in Hillsboro, 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 building remain below the Oregon Department of Education (ODE) action level of 15 parts per billion (ppb).

Two hundred and two samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon for lead analysis. Two additional samples were analyzed for lead by Columbia Laboratories in Portland, Oregon. Ten fixtures were found to be not working during the initial round of testing. Those fixtures were subsequently repaired or replaced and sampled. Analytical results from the first round of sampling showed that three fixtures had lead concentrations above 15 ppb. Those fixtures were replaced and subsequently resampled. After the final round of sampling, water from all fixtures in the building showed lead concentrations below 15 ppb. The following tables show the results of each round of sampling.

Fixture Number	Sample Number	Round 1 – April 27, 2024 Location / Room No.	Results (ppb)
001	22392900-001KF24A	Room 222 – Culinary Arts, north island prep sink	0.267
002	22392900-002KF24A	Room 222 – Culinary Arts, south island prep sink	0.220
003	22392900-003KF24A	Room 222 – Culinary Arts, east wall prep sink	0.339
004	22392900-004BF24A	Main office, staff restroom, left restroom sink faucet	0.448
005	22392900-005BF24A	Main office, staff restroom, right restroom sink faucet	0.262
006	22392900-006NS24A	Main office, health room	1.88
007	22392900-007BF24A	Main office, health room restroom	0.618
008	22392900-008DW24A	Main office workroom – drinking fountain at kitchenette	0.246
009	22392900-009SF24A	Main office workroom – staff sink faucet	1.44
010	22392900-010KF24A	MRDD Room 150, kitchenette sink faucet	0.330
011	22392900-011BF24A	MRDD Room 150, left restroom – left sink faucet	1.40
012	22392900-012BF24A	MRDD Room 150, left restroom – right sink faucet	2.53

Fixture Number	Sample Number	Round 1 – April 27, 2024 Location / Room No.	Results (ppb)
013	22392900-013BF24A	MRDD Room 150, right restroom – left sink faucet	1.74
014	22392900-014BF24A	MRDD Room 150, left restroom – right sink faucet	0.846
015	22392900-015CF24A	MRDD Room 150, east storage/laundry room	15.4
016	22392900-016SF24A	Room 158 storage room, sink faucet	0.945
017	22392900-017BF24A	Room 162, left restroom sink faucet	0.347
018	22392900-018BF24A	Room 162, right restroom sink faucet	0.661
019	22392900-019KF24A	Room 162, kitchenette, left sink faucet	0.925
020	22392900-020KF24A	Room 162, kitchenette, right sink faucet	0.309
021	22392900-021BF24A	Room 164, restroom sink faucet	0.446
022	22392900-022CF24A	Room 164, sink across from restroom	1.30
023	22392900-023SF24A	SW work room at Teachers Office - sink faucet	0.538
024	22392900-024OT24A	SW work room at Teachers Office – hot water tap	0.296
025	22392900-025BF24A	SW work room at Teachers Office - left restroom sink faucet	0.618
026	22392900-026BF24A	SW work room at Teachers Office - right restroom sink faucet	0.883
027	22392900-027BF24A	West mens restroom – sampled left to right (1)	ND
028	22392900-028BF24A	West mens restroom – sampled left to right (2)	0.203
029	22392900-029BF24A	West mens restroom – sampled left to right (3)	0.345
030	22392900-030BF24A	West mens restroom – sampled left to right (4)	0.330
031	22392900-031BF24A	West mens restroom – sampled left to right (5)	0.721
032	22392900-032BF24A	West womens restroom – sampled left to right (1)	2.41
033	22392900-033BF24A	West womens restroom – sampled left to right (2)	0.281
034	22392900-034BF24A	West womens restroom – sampled left to right (3)	0.671
035	22392900-035BF24A	West womens restroom – sampled left to right (4)	0.213
036	22392900-036BF24A	West womens restroom – sampled left to right (5)	0.867
037	22392900-037BF24A	West womens restroom – sampled left to right (6)	0.209
038		West womens restroom – sampled left to right (7) (not working)	
039		West hallway, drinking fountain – left (not working)	
040	22392900-040DW24A	West hallway, drinking fountain – right	0.372
041	22392900-041DW24A	Room 170 / Band Room – drinking fountain	2.39
042	22392900-042WB24A	Choir Room – water bottle filler	ND
043	22392900-043DW24A	Choir Room – drinking fountain	ND
044	22392900-044CF24A	Drama Room – sink faucet	0.334
045	22392900-045BF24A	Drama, mens dressing room restroom	0.671
046	22392900-046BF24A	Drama, womens dressing room restroom	0.708
047	22392900-047DW24A	Drinking fountains near SE elevator - left	ND
048	22392900-048DW24A	Drinking fountains near SE elevator – right	ND
049	22392900-049BF24A	ADA restroom at auditorium entrance, sink faucet	1.95
050	22392900-050BF24A	Auditorium mens restroom – sampled left to right (1)	2.57
051	22392900-051BF24A	Auditorium mens restroom – sampled left to right (2)	1.71
052	22392900-052BF24A	Auditorium mens restroom – sampled left to right (3)	2.07
053	22392900-053BF24A	Auditorium mens restroom – sampled left to right (4)	1.28

Fixture Number	Sample Number	Round 1 – April 27, 2024 Location / Room No.	Results (ppb)
054	22392900-054BF24A	Auditorium mens restroom – sampled left to right (5)	0.950
055	22392900-055BF24A	Auditorium mens restroom – sampled left to right (6)	1.15
056	22392900-056BF24A	Auditorium womens restroom – sampled left to right (1)	0.873
057	22392900-057BF24A	Auditorium womens restroom – sampled left to right (2)	1.48
058	22392900-058BF24A	Auditorium womens restroom – sampled left to right (3)	1.47
059	22392900-059BF24A	Auditorium womens restroom – sampled left to right (4)	1.55
060	22392900-060BF24A	Auditorium womens restroom – sampled left to right (5)	1.99
061	22392900-061BF24A	Auditorium womens restroom – sampled left to right (6)	3.75
062	22392900-062BF24A	Auditorium womens restroom – sampled left to right (7)	2.10
063	22392900-063BF24A	Auditorium womens restroom – sampled left to right (8)	2.87
064	22392900-064KF24A	Commons area concession stand – sink faucet	1.45
065	22392900-065KF24A	Kitchen, west wall at ice machine, single prep sink	1.99
066	22392900-066KF24A	Kitchen, north side, double prep sink faucet	3.62
067	22392900-067KF24A	Kitchen, north side, double prep sink sprayer	3.80
068	22392900-068KF24A	Kitchen, east wall, wand faucet at big mixer	6.02
069	22392900-069KF24A	Kitchen, SE corner, single prep sink	0.367
070	22392900-070KF24A	Kitchen, south side, single prep sink	1.09
071	22392900-071KF24A	Kitchen, center prep island – west single prep sink	0.570
072	22392900-072KF24A	Kitchen, center prep island – center single prep sink	0.554
073	22392900-073KF24A	Kitchen, small pot filler faucet	1.31
074	22392900-074KF24A	Kitchen, large pot filler faucet	16.4
075	22392900-075BF24A	Kitchen, staff restroom, sink faucet	0.223
076	22392900-076DW24A	Gym drinking fountain, SW wall - left	0.325
077	22392900-077DW24A	Gym drinking fountain, SW wall - right	0.211
078	22392900-078DW24A	Gym drinking fountain, SE wall - left	1.45
079	22392900-079DW24A	Gym drinking fountain, SE wall - right	ND
080	22392900-080BF24A	Coaches Room 193, restroom sink faucet	0.722
081	22392900-081BF24A	Girls locker room restroom sinks – sampled left to right (1)	1.16
082	22392900-082BF24A	Girls locker room restroom sinks – sampled left to right (2)	0.650
083	22392900-083BF24A	Girls locker room restroom sinks – sampled left to right (3)	0.663
084	22392900-084CF24A	Team / Sports Medicine Room, sink faucet	0.391
085	22392900-085WB24A	Hall north of gym, water bottle filler	ND
086	22392900-086DW24A	Hall north of gym, drinking fountain – left	ND
087	22392900-087DW24A	Hall north of gym, drinking fountain – right	ND
088	22392900-088BF24A	Boys locker room restroom sinks – sampled left to right (1)	0.654
089	22392900-089BF24A	Boys locker room restroom sinks – sampled left to right (2)	0.283
090	22392900-090BF24A	Boys locker room restroom sinks – sampled left to right (3)	0.499
091	22392900-091SF24A	Storage room near loading dock, sink faucet	0.303
092	22392900-092DW24A	Hall at NW stairs, drinking fountain – left	0.233
093	22392900-093DW24A	Hall at NW stairs, drinking fountain – right	0.212
094	22392900-094WB24A	Hall at north restrooms, water bottle filler	ND

Fixture Number	Sample Number	Round 1 – April 27, 2024	Results (ppb)
		Location / Room No.	
095	22392900-095DW24A	Hall at north restrooms, drinking fountain – left	ND
096	22392900-096BF24A	North womens restroom – sampled left to right (1)	1.28
097	22392900-097BF24A	North womens restroom – sampled left to right (2)	0.484
098	22392900-098BF24A	North womens restroom – sampled left to right (3)	0.593
099	22392900-099BF24A	North womens restroom – sampled left to right (4)	0.242
100	22392900-100BF24A	North womens restroom – sampled left to right (5)	0.349
101	22392900-101BF24A	North womens restroom – sampled left to right (6)	0.841
102	22392900-102BF24A	North womens restroom – sampled left to right (7)	0.431
103	22392900-103BF24A	North womens restroom – sampled left to right (8)	0.864
104	22392900-104BF24A	North mens restroom – sampled left to right (1)	0.435
105	22392900-105BF24A	North mens restroom – sampled left to right (2)	1.06
106	22392900-106BF24A	North mens restroom – sampled left to right (3)	0.291
107	22392900-107BF24A	North mens restroom – sampled left to right (4)	0.339
108	22392900-108BF24A	North mens restroom – sampled left to right (5)	1.52
109	22392900-109BF24A	North mens restroom – sampled left to right (6)	0.433
110	22392900-110BF24A	North mens restroom – sampled left to right (7)	1.60
111	22392900-111BF24A	North mens restroom – sampled left to right (8)	1.44
112	22392900-112CF24A	Room 142, sink faucet	1.02
113	22392900-113CF24A	Room 140, sink faucet	1.27
114	22392900-114SF24A	NE work room at Teachers Office – sink faucet	0.383
115	22392900-115OT24A	NE work room at Teachers Office – hot water tap	0.944
116	22392900-116BF24A	NE work room at Teachers Office - left restroom sink faucet	0.527
117	22392900-117BF24A	NE work room at Teachers Office - right restroom sink faucet	0.896
118	22392900-118CF24A	Room 137, sink faucet	1.62
119	22392900-119CF24A	Room 139, sink faucet	1.67
120	22392900-120BF24A	2nd floor, north womens restroom – sampled left to right (1)	1.23
121	22392900-121BF24A	2nd floor, north womens restroom – sampled left to right (2)	1.02
122	22392900-122BF24A	2nd floor, north womens restroom – sampled left to right (3)	1.25
123	22392900-123BF24A	2nd floor, north womens restroom – sampled left to right (4)	1.48
124	22392900-124BF24A	2nd floor, north womens restroom – sampled left to right (5)	0.709
125	22392900-125BF24A	2nd floor, north womens restroom – sampled left to right (6)	0.222
126	22392900-126BF24A	2nd floor, north womens restroom – sampled left to right (7)	0.232
127	22392900-127BF24A	2nd floor, north womens restroom – sampled left to right (8)	1.04
128	22392900-128BF24A	2nd floor, north mens restroom – sampled left to right (1)	0.763
129	22392900-129BF24A	2nd floor, north mens restroom – sampled left to right (2)	0.673
130	22392900-130BF24A	2nd floor, north mens restroom – sampled left to right (3)	0.413
131	22392900-131BF24A	2nd floor, north mens restroom – sampled left to right (4)	0.881
132	22392900-132BF24A	2nd floor, north mens restroom – sampled left to right (5)	0.233
133	22392900-133BF24A	2nd floor, north mens restroom – sampled left to right (6)	0.337
134	22392900-134BF24A	2nd floor, north mens restroom – sampled left to right (7)	0.314
135	22392900-135BF24A	2nd floor, north mens restroom – sampled left to right (8)	1.57

Fixture Number	Sample Number	Round 1 – April 27, 2024 Location / Room No.	Results (ppb)
136		2nd floor, north hall, drinking fountain – left (not working)	
137	22392900-137DW24A	2nd floor, north hall, drinking fountain – right	ND
138		Upper gym drinking fountain – left (not working)	
139		Upper gym drinking fountain – right (not working)	
140	22392900-140SF24A	2nd floor NE work room, sink faucet	0.617
141	22392900-141OT24A	2nd floor NE work room – hot water tap	ND
142	22392900-142BF24A	2nd floor NE work room - left restroom sink faucet	0.417
143	22392900-143BF24A	2nd floor NE work room - right restroom sink faucet	1.43
144	22392900-144DW24A	Room 293 / Weight Fitness, drinking fountain	ND
145		Room 294 / Wrestling Dance, drinking fountain (not working)	
146		2nd floor, NW corner hallway, drinking fountain – left (not working)	
147		2nd floor, NW corner hallway, drinking fountain – right (not working)	
148	22392900-148CF24A	Conference room 202, sink faucet	2.65
149	22392900-149CF24A	Room 202B, book storage, sink faucet	1.89
150	22392900-150DW24A	2nd floor, south hall by elevator, left drinking fountain	ND
151	22392900-151WB24A	2nd floor, south hall by elevator, water bottle filler	ND
152	22392900-152DW24A	2nd floor, south hall by elevator, right drinking fountain	ND
153	22392900-153BF24A	2nd floor, south mens restroom – sampled left to right (1)	10.8
154	22392900-154BF24A	2nd floor, south mens restroom – sampled left to right (2)	16.2
155	22392900-155BF24A	2nd floor, south mens restroom – sampled left to right (3)	8.87
156	22392900-156BF24A	2nd floor, south mens restroom – sampled left to right (4)	2.65
157	22392900-157BF24A	2nd floor, south mens restroom – sampled left to right (5)	2.07
158	22392900-158BF24A	2nd floor, south mens restroom – sampled left to right (6)	3.26
159	22392900-159BF24A	2nd floor, south mens restroom – sampled left to right (7)	2.06
160	22392900-160BF24A	2nd floor, south womens restroom – sampled left to right (1)	1.33
161	22392900-160BF24A	2nd floor, south womens restroom – sampled left to right (1)	7.97
162	22392900-162BF24A	2nd floor, south womens restroom – sampled left to right (3)	4.20
163	22392900-163BF24A	2nd floor, south womens restroom – sampled left to right (4)	5.59
164	22392900-164BF24A	2nd floor, south womens restroom – sampled left to right (5)	2.58
165	22392900-165BF24A	2nd floor, south womens restroom – sampled left to right (6)	6.28
166	22392900-166BF24A	2nd floor, south womens restroom – sampled left to right (7)	4.28
167	22392900-167SF24A	Storage between classroom 260 and 262, sink faucet	1.83
168	22392900-168SF24A	2nd floor, south work room at Teachers Office – sink faucet	0.424
169	22392900-169OT24A	2nd floor, south work room at Teachers Office – hot water tap	ND
170	22392900-170BF24A	2nd floor, south work room at Teachers Office - left restroom sink faucet	0.309
171	22392900-171BF24A	2nd floor, South work room at Teachers Office - right RR sink faucet	0.285
172	22392900-172DW24A	2nd floor, SW hallway, left drinking fountain	0.235
173	22392900-173DW24A	2nd floor, SW hallway, right drinking fountain	ND
174	22392900-174BF24A	2nd floor, SW womens restroom – left to right (1)	0.711
175	22392900-175BF24A	2nd floor, SW womens restroom – sampled left to right (2)	0.761

Fixture Number	Sample Number	Round 1 – April 27, 2024 Location / Room No.	Results (ppb)
176	22392900-176BF24A	2nd floor, SW womens restroom –left to right (3)	0.236
177	22392900-177BF24A	2nd floor, SW womens restroom – sampled left to right (4)	ND
178	22392900-178BF24A	2nd floor, SW womens restroom – sampled left to right (5)	0.837
179	22392900-179BF24A	2nd floor, SW womens restroom – sampled left to right (6)	0.602
180	22392900-180BF24A	2nd floor, SW womens restroom – sampled left to right (7)	0.306
181	22392900-181BF24A	2nd floor, SW mens restroom – sampled left to right (1)	0.529
182	22392900-182BF24A	2nd floor, SW mens restroom – sampled left to right (2)	0.504
183	22392900-183BF24A	2nd floor, SW mens restroom – sampled left to right (3)	0.493
184		2nd floor, SW mens restroom –left to right (4) (not working)	
185	22392900-185BF24A	2nd floor, SW mens restroom – sampled left to right (5)	0.290
*186		2nd floor drinking fountain at NW stairs – Left (not working)	
*187	22392900-187DW24A	2nd floor drinking fountain at NW stairs – Right	0.252

ND = no lead detected

Round 1 Sampling Notes:

1. Fixture 15, the sink faucet in MRDD Room 150, east storage/laundry room showed lead concentrations slightly above 15 ppb. After discussion with the teacher, it was determined that this sink is used as a utility sink and not for drinking or food preparation. The fixture was labeled as non-potable and was not re-tested.
2. Fixtures 146 and 147 were inadvertently sampled twice and labeled as fixtures 186 and 187.

Fixture Number	Sample Number	Round 2 – May 18, 2024 Location / Room No.	Results (ppb)
038	22392900-038BF24A	West womens restroom – sampled left to right (7)	1.26
039	22392900-039DW24A	West hallway, drinking fountain – left	0.525
136	22392900-136DW24A	2nd floor, north hall, drinking fountain – left	ND
138	22392900-138DW24A	Upper gym drinking fountain – left	1.39
139	22392900-139DW24A	Upper gym drinking fountain – right	2.79
145	22392900-145DW24A	Room 294 / Wrestling Dance, drinking fountain	2.33
146	22392900-146DW24A	2nd floor, NW corner hallway, drinking fountain – left	ND
147	22392900-147DW24A	2nd floor, NW corner hallway, drinking fountain – right	0.308
148	22392900-148CF24B	Conference room 202, sink faucet (fixture replaced)	6.14
149	22392900-149CF24B	Room 202B, book storage, sink faucet (fixture replaced)	10.9
184	22392900-184BF24A	2nd floor, SW mens restroom –left to right (4)	0.574
188	22392900-188DW24A	Under grandstand, drinking fountain, left	0.207
189	22392900-189DW24A	Under grandstand, drinking fountain, right	0.347
190	22392900-190KF24A	Under grandstand, concessions booth, kitchen sink	1.68
191	22392900-191BF24A	Under grandstand, north end, ADA restroom, bathroom faucet	1.32
192	22392900-192BF24A	Under grandstand, mens restroom – sampled left to right (1)	2.52
193	22392900-193BF24A	Under grandstand, mens restroom – sampled left to right (2)	3.83
194	22392900-194BF24A	Under grandstand, mens restroom – sampled left to right (3)	2.18

Fixture Number	Sample Number	Round 2 – May 18, 2024 Location / Room No.	Results (ppb)
195	22392900-195BF24A	Under grandstand, mens restroom – sampled left to right (4)	2.62
196	22392900-196BF24A	Under grandstand, womens restroom – sampled left to right (1)	1.39
197	22392900-197BF24A	Under grandstand, womens restroom – sampled left to right (2)	1.55
198	22392900-198BF24A	Under grandstand, womens restroom – sampled left to right (3)	1.09
199	22392900-199BF24A	Under grandstand, womens restroom – sampled left to right (4)	1.04

ND = no lead detected

Fixture Number	Sample Number	Round 3 – May 25, 2024 Location / Room No.	Results (ppb)
074	22392900-074KF24B	Kitchen, large pot filler faucet – (30 second flush)	15.1
074	22392900-074KF24C	Kitchen, large pot filler faucet – (60 second flush)	5.2
153	22392900-153BF24B	2nd floor, south mens restroom – sampled L to R (1) (fixture replaced)	7.04
154	22392900-154BF24C	2nd floor, south mens restroom – sampled L to R (2) (fixture replaced)	9.02

ND = no lead detected

Fixture Number	Sample Number	Round 4 – June 7, 2024 Location / Room No.	Results (ppb)
074	22392900-074KF24D	Kitchen, large pot filler faucet – first draw (after fixture and filter replaced)	ND
074	22392900-074KF24E	Kitchen, large pot filler faucet – 30-second flush sample (after fixture and filter replaced)	ND

ND = no lead detected

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

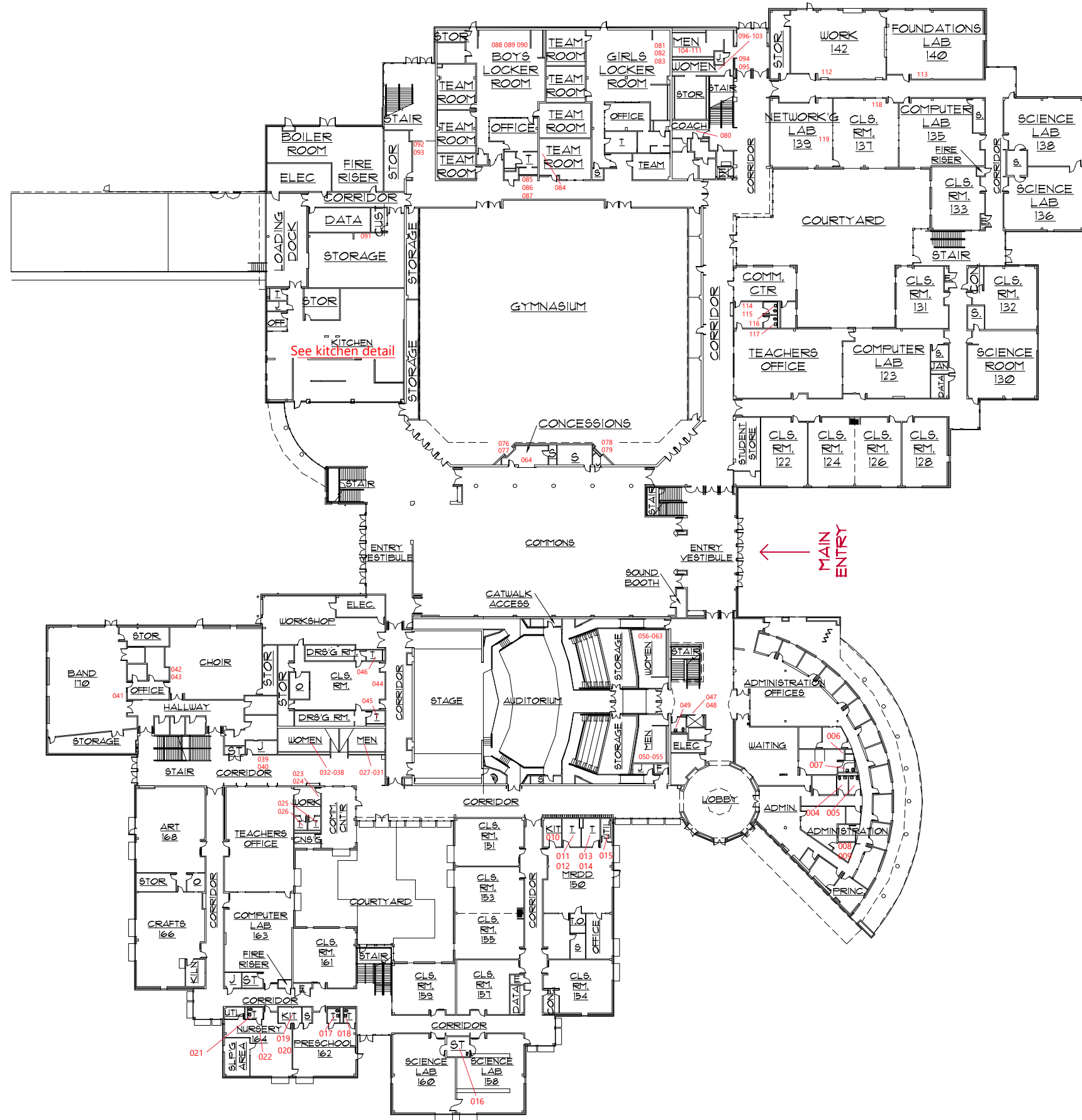
Please feel free to contact me at 503.515.4726 or voeller@pbsusa.com with any questions or comments.

Sincerely,

 Digitally signed by Dale Voeller, CHMM, CSP
 Date: 2025.02.20 11:06:13 -08'00'

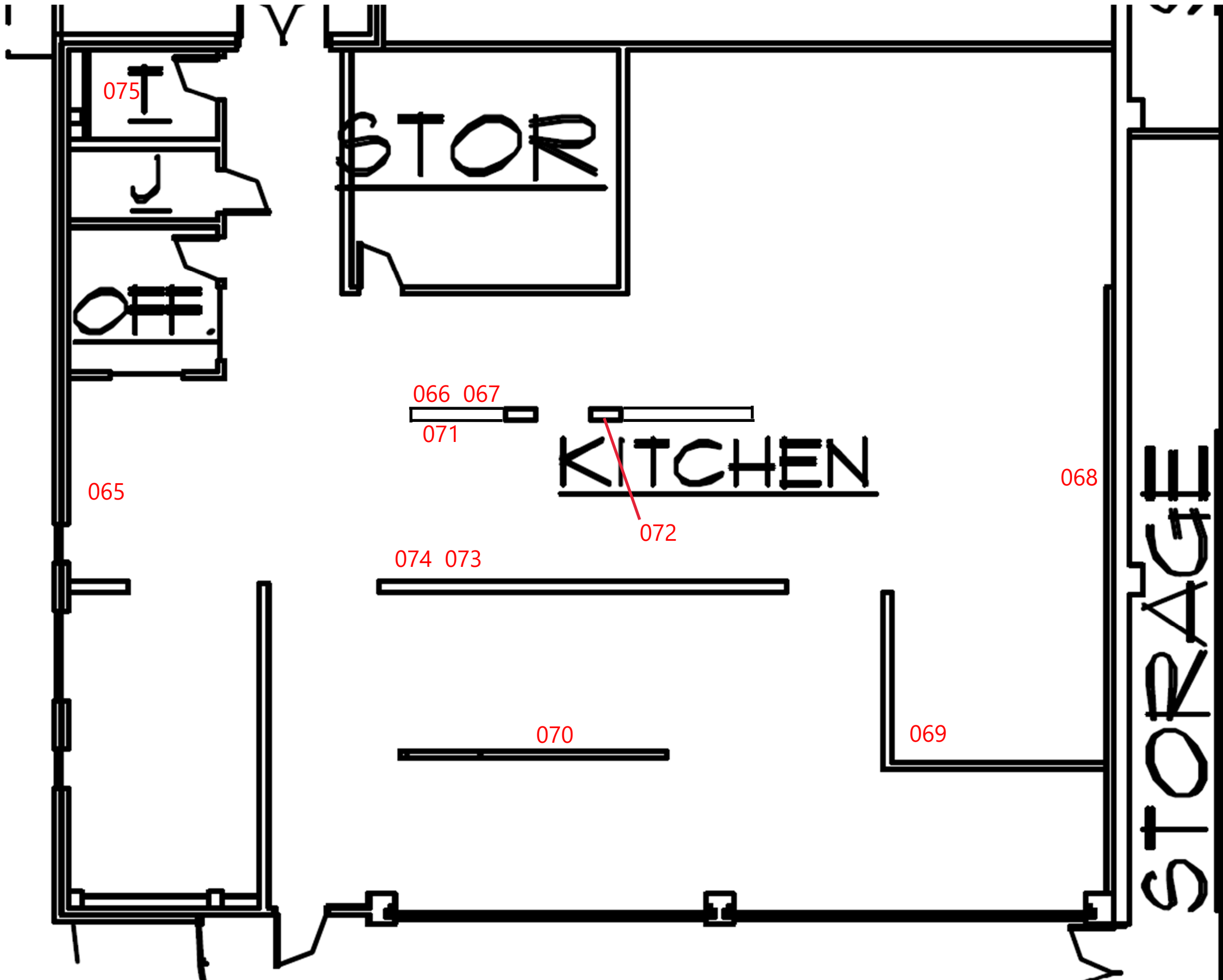
Dale Voeller, CHMM, CSP
 Senior Project Manager

Attachments: Sample Location Drawings
 Laboratory Analytical Reports



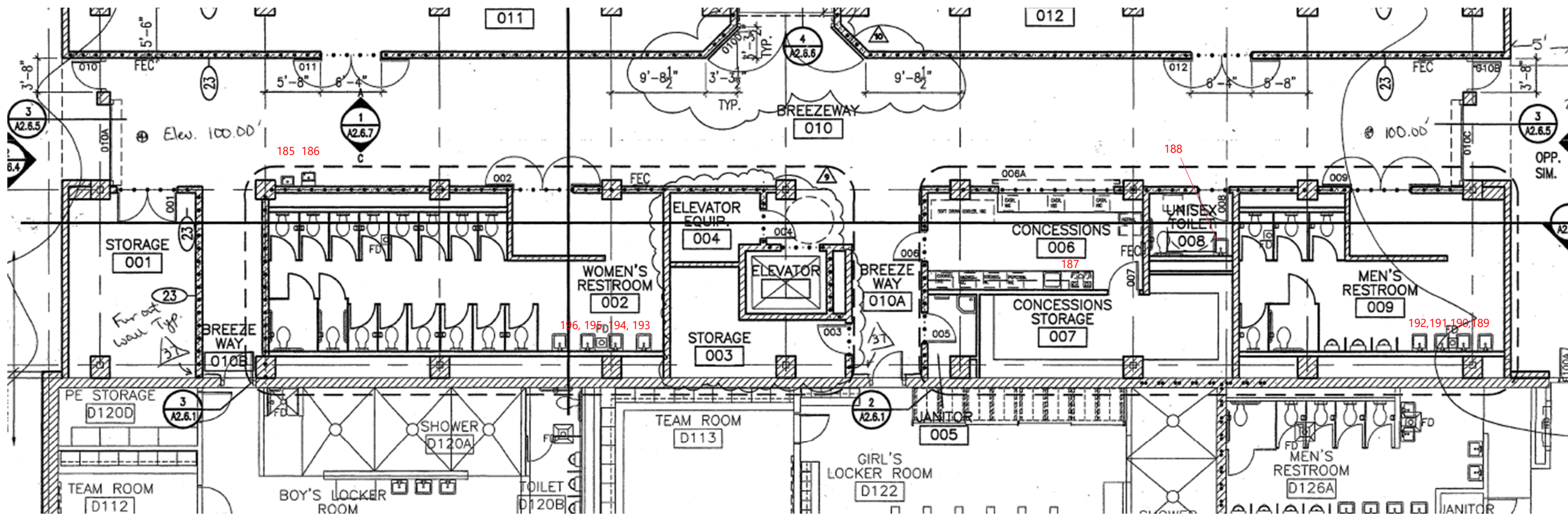
LIBERTY HIGH SCHOOL
SCHOOL BUILDING
FIRST FLOOR BUILDING PLAN

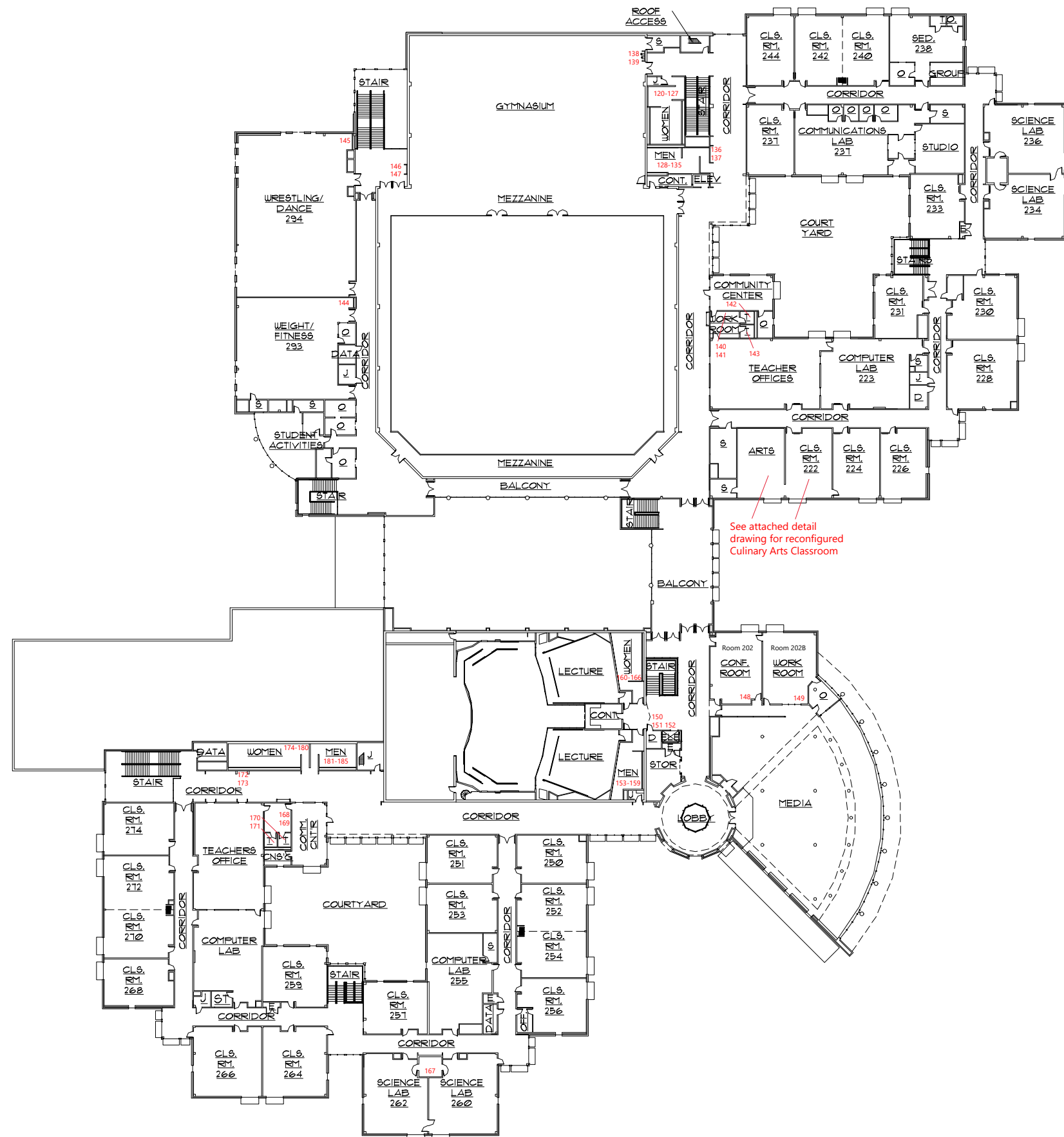
Liberty High School
Fixture Location Drawing
May 1, 2024



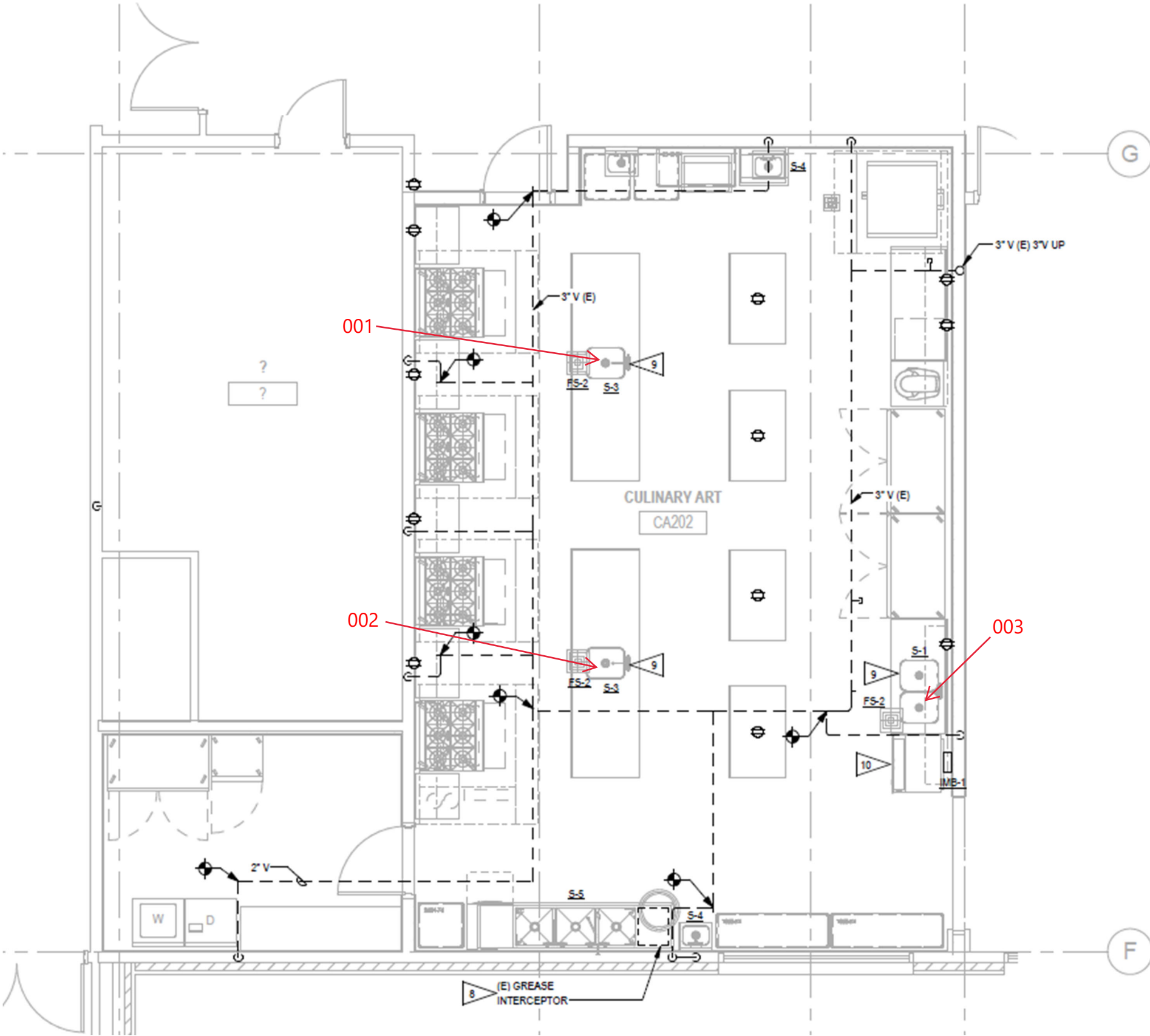
Liberty High School
Fixture Location Drawing
Kitchen Detail
May 1, 2024

Liberty High School
Grandstand Concession Area
Fixture Location Drawing
May 1, 2024





Liberty High School
Culinary Arts Classroom 222 Fixture
Location Drawing May 1, 2024





ANALYTICAL REPORT

Apex Laboratories, LLC

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

Wednesday, May 22, 2024

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A4E1072 - Hillsboro School District - Liberty HS/23440.190

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 A4E1072, which was received by the laboratory on 5/7/2024 at 12:50:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: jwoodcock@apex-labs.com, or by phone at 503-718-2323.

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

Cooler Receipt Information		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	2.3	degC

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

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



Apex Laboratories

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1072 - 05 22 24 1200****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-001KF24A	A4E1072-01	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-002KF24A	A4E1072-02	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-003KF24A	A4E1072-03	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-004BF24A	A4E1072-04	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-005BF24A	A4E1072-05	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-006NS24A	A4E1072-06	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-007BF24A	A4E1072-07	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-008DW24A	A4E1072-08	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-009SF24A	A4E1072-09	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-010KF24A	A4E1072-10	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-011BF24A	A4E1072-11	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-012BF24A	A4E1072-12	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-013BF24A	A4E1072-13	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-014BF24A	A4E1072-14	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-015CF24A	A4E1072-15	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-016SF24A	A4E1072-16	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-017BF24A	A4E1072-17	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-018BF24A	A4E1072-18	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-019KF24A	A4E1072-19	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-020KF24A	A4E1072-20	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-021BF24A	A4E1072-21	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-022CF24A	A4E1072-22	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-023SF24A	A4E1072-23	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-024OT24A	A4E1072-24	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-025BF24A	A4E1072-25	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-026BF24A	A4E1072-26	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-027BF24A	A4E1072-27	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-028BF24A	A4E1072-28	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-029BF24A	A4E1072-29	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-030BF24A	A4E1072-30	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-031BF24A	A4E1072-31	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-032BF24A	A4E1072-32	Drinking Water	04/27/24 00:00	05/07/24 12:50

Apex Laboratories

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Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1072 - 05 22 24 1200****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-033BF24A	A4E1072-33	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-034BF24A	A4E1072-34	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-035BF24A	A4E1072-35	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-036BF24A	A4E1072-36	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-037BF24A	A4E1072-37	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-040DW24A	A4E1072-38	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-041DW24A	A4E1072-39	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-043DW24A	A4E1072-40	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-044CF24A	A4E1072-41	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-045BF24A	A4E1072-42	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-046BF24A	A4E1072-43	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-047DW24A	A4E1072-44	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-048DW24A	A4E1072-45	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-049BF24A	A4E1072-46	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-050BF24A	A4E1072-47	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-051BF24A	A4E1072-48	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-052BF24A	A4E1072-49	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-053BF24A	A4E1072-50	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-054BF24A	A4E1072-51	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-055BF24A	A4E1072-52	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-056BF24A	A4E1072-53	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-057BF24A	A4E1072-54	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-058BF24A	A4E1072-55	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-059BF24A	A4E1072-56	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-060BF24A	A4E1072-57	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-061BF24A	A4E1072-58	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-062BF24A	A4E1072-59	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-063BF24A	A4E1072-60	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-064KF24A	A4E1072-61	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-065KF24A	A4E1072-62	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-066KF24A	A4E1072-63	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-067KF24A	A4E1072-64	Drinking Water	04/27/24 00:00	05/07/24 12:50

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503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1072 - 05 22 24 1200****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-068KF24A	A4E1072-65	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-0069KF24A	A4E1072-66	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-070KF24A	A4E1072-67	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-071KF24A	A4E1072-68	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-072KF24A	A4E1072-69	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-073KF24A	A4E1072-70	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-074KF24A	A4E1072-71	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-075BF24A	A4E1072-72	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-076DW24A	A4E1072-73	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-077DW24A	A4E1072-74	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-078DW24A	A4E1072-75	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-079DW24A	A4E1072-76	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-080BF24A	A4E1072-77	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-081BF24A	A4E1072-78	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-082BF24A	A4E1072-79	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-083BF24A	A4E1072-80	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-084CF24A	A4E1072-81	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-085WB24A	A4E1072-82	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-086DW24A	A4E1072-83	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-087DW24A	A4E1072-84	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-088BF24A	A4E1072-85	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-089BF24A	A4E1072-86	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-090BF24A	A4E1072-87	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-091SF24A	A4E1072-88	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-092DW24A	A4E1072-89	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-093DW24A	A4E1072-90	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-094WB24A	A4E1072-91	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-095DW24A	A4E1072-92	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-096BF24A	A4E1072-93	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-097BF24A	A4E1072-94	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-098BF24A	A4E1072-95	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-099BF24A	A4E1072-96	Drinking Water	04/27/24 00:00	05/07/24 12:50

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1072 - 05 22 24 1200****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-100BF24A	A4E1072-97	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-101BF24A	A4E1072-98	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-102BF24A	A4E1072-99	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-103BF24A	A4E1072-AA	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-104BF24A	A4E1072-AB	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-105BF24A	A4E1072-AC	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-106BF24A	A4E1072-AD	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-107BF24A	A4E1072-AE	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-108BF24A	A4E1072-AF	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-109BF24A	A4E1072-AG	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-110BF24A	A4E1072-AH	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-111BF24A	A4E1072-AI	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-112CF24A	A4E1072-AJ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-113CF24A	A4E1072-AK	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-114SF24A	A4E1072-AL	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-115OT24A	A4E1072-AM	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-116BF24A	A4E1072-AN	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-117BF24A	A4E1072-AO	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-118CF24A	A4E1072-AP	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-119CF24A	A4E1072-AQ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-120BF24A	A4E1072-AR	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-121BF24A	A4E1072-AS	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-122BF24A	A4E1072-AT	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-123BF24A	A4E1072-AU	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-124BF24A	A4E1072-AV	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-125BF24A	A4E1072-AW	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-126BF24A	A4E1072-AX	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-127BF24A	A4E1072-AY	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-128BF24A	A4E1072-AZ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-129BF24A	A4E1072-BA	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-130BF24A	A4E1072-BB	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-131BF24A	A4E1072-BC	Drinking Water	04/27/24 00:00	05/07/24 12:50

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Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-132BF24A	A4E1072-BD	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-133BF24A	A4E1072-BE	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-134BF24A	A4E1072-BF	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-135BF24A	A4E1072-BG	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-137DW24A	A4E1072-BH	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-140SF24A	A4E1072-BI	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-141OT24A	A4E1072-BJ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-142BF24A	A4E1072-BK	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-143BF24A	A4E1072-BL	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-144DW24A	A4E1072-BM	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-148CF24A	A4E1072-BN	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-149CF24A	A4E1072-BO	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-150DW24A	A4E1072-BP	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-151WB24A	A4E1072-BQ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-152DW24A	A4E1072-BR	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-153BF24A	A4E1072-BS	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-154BF24A	A4E1072-BT	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-155BF24A	A4E1072-BU	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-156BF24A	A4E1072-BV	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-157BF24A	A4E1072-BW	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-158BF24A	A4E1072-BX	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-159BF24A	A4E1072-BY	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-160BF24A	A4E1072-BZ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-161BF24A	A4E1072-CA	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-162BF24A	A4E1072-CB	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-163BF24A	A4E1072-CC	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-164BF24A	A4E1072-CD	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-165BF24A	A4E1072-CE	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-166BF24A	A4E1072-CF	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-167SF24A	A4E1072-CG	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-168SF24A	A4E1072-CH	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-169OT24A	A4E1072-CI	Drinking Water	04/27/24 00:00	05/07/24 12:50

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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-170BF24A	A4E1072-CJ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-171BF24A	A4E1072-CK	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-172DW24A	A4E1072-CL	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-173DW24A	A4E1072-CM	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-174BF24A	A4E1072-CN	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-175BF24A	A4E1072-CO	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-176BF24A	A4E1072-CP	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-177BF24A	A4E1072-CQ	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-178BF24A	A4E1072-CR	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-179BF24A	A4E1072-CS	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-180BF24A	A4E1072-CT	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-181BF24A	A4E1072-CU	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-182BF24A	A4E1072-CV	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-183BF24A	A4E1072-CW	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-185BF24A	A4E1072-CX	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-187DW24A	A4E1072-CY	Drinking Water	04/27/24 00:00	05/07/24 12:50
22392900-042WB24A	A4E1072-CZ	Drinking Water	04/27/24 00:00	05/07/24 12:50

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

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

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

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
22392900-001KF24A (A4E1072-01)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.267	---	0.200	ug/L	1	05/15/24 14:07	EPA 200.8	
22392900-002KF24A (A4E1072-02)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.220	---	0.200	ug/L	1	05/15/24 14:12	EPA 200.8	
22392900-003KF24A (A4E1072-03)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.339	---	0.200	ug/L	1	05/15/24 14:14	EPA 200.8	
22392900-004BF24A (A4E1072-04)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.448	---	0.200	ug/L	1	05/15/24 14:16	EPA 200.8	
22392900-005BF24A (A4E1072-05)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.262	---	0.200	ug/L	1	05/15/24 14:17	EPA 200.8	
22392900-006NS24A (A4E1072-06)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	1.88	---	0.200	ug/L	1	05/15/24 14:19	EPA 200.8	
22392900-007BF24A (A4E1072-07)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.618	---	0.200	ug/L	1	05/15/24 14:24	EPA 200.8	
22392900-008DW24A (A4E1072-08)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.246	---	0.200	ug/L	1	05/15/24 14:26	EPA 200.8	
22392900-009SF24A (A4E1072-09)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	1.44	---	0.200	ug/L	1	05/15/24 14:27	EPA 200.8	

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503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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
22392900-010KF24A (A4E1072-10)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.330	---	0.200	ug/L	1	05/15/24 14:29	EPA 200.8	
22392900-011BF24A (A4E1072-11)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	1.40	---	0.200	ug/L	1	05/15/24 14:31	EPA 200.8	
22392900-012BF24A (A4E1072-12)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	2.53	---	0.200	ug/L	1	05/15/24 14:32	EPA 200.8	
22392900-013BF24A (A4E1072-13)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	1.74	---	0.200	ug/L	1	05/15/24 14:34	EPA 200.8	
22392900-014BF24A (A4E1072-14)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.846	---	0.200	ug/L	1	05/15/24 14:36	EPA 200.8	
22392900-015CF24A (A4E1072-15)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	15.4	---	0.200	ug/L	1	05/15/24 14:38	EPA 200.8	
22392900-016SF24A (A4E1072-16)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.945	---	0.200	ug/L	1	05/15/24 14:39	EPA 200.8	
22392900-017BF24A (A4E1072-17)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.347	---	0.200	ug/L	1	05/15/24 14:46	EPA 200.8	
22392900-018BF24A (A4E1072-18)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.661	---	0.200	ug/L	1	05/15/24 14:48	EPA 200.8	

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Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller****Report ID:**
A4E1072 - 05 22 24 1200**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
22392900-019KF24A (A4E1072-19)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.925	---	0.200	ug/L	1	05/15/24 14:49	EPA 200.8	
22392900-020KF24A (A4E1072-20)				Matrix: Drinking Water				
Batch: 24E0518								
Lead	0.309	---	0.200	ug/L	1	05/15/24 14:51	EPA 200.8	
22392900-021BF24A (A4E1072-21)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.446	---	0.200	ug/L	1	05/15/24 15:08	EPA 200.8	
22392900-022CF24A (A4E1072-22)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	1.30	---	0.200	ug/L	1	05/15/24 15:13	EPA 200.8	
22392900-023SF24A (A4E1072-23)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.538	---	0.200	ug/L	1	05/15/24 15:15	EPA 200.8	
22392900-024OT24A (A4E1072-24)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.296	---	0.200	ug/L	1	05/15/24 15:17	EPA 200.8	
22392900-025BF24A (A4E1072-25)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.618	---	0.200	ug/L	1	05/15/24 15:19	EPA 200.8	
22392900-026BF24A (A4E1072-26)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.883	---	0.200	ug/L	1	05/15/24 15:20	EPA 200.8	
22392900-027BF24A (A4E1072-27)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	ND	---	0.200	ug/L	1	05/15/24 15:22	EPA 200.8	

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A4E1072 - 05 22 24 1200**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
22392900-028BF24A (A4E1072-28)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.203	---	0.200	ug/L	1	05/15/24 15:24	EPA 200.8	
22392900-029BF24A (A4E1072-29)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.345	---	0.200	ug/L	1	05/15/24 15:29	EPA 200.8	
22392900-030BF24A (A4E1072-30)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.330	---	0.200	ug/L	1	05/15/24 15:31	EPA 200.8	
22392900-031BF24A (A4E1072-31)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.721	---	0.200	ug/L	1	05/15/24 15:33	EPA 200.8	
22392900-032BF24A (A4E1072-32)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	2.41	---	0.200	ug/L	1	05/15/24 15:34	EPA 200.8	
22392900-033BF24A (A4E1072-33)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.281	---	0.200	ug/L	1	05/15/24 15:36	EPA 200.8	
22392900-034BF24A (A4E1072-34)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.671	---	0.200	ug/L	1	05/15/24 15:38	EPA 200.8	
22392900-035BF24A (A4E1072-35)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.213	---	0.200	ug/L	1	05/15/24 15:39	EPA 200.8	
22392900-036BF24A (A4E1072-36)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.867	---	0.200	ug/L	1	05/15/24 15:41	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
22392900-037BF24A (A4E1072-37)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.209	---	0.200	ug/L	1	05/15/24 15:43	EPA 200.8	
22392900-040DW24A (A4E1072-38)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	0.372	---	0.200	ug/L	1	05/15/24 15:45	EPA 200.8	
22392900-041DW24A (A4E1072-39)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	2.39	---	0.200	ug/L	1	05/15/24 15:50	EPA 200.8	
22392900-043DW24A (A4E1072-40)				Matrix: Drinking Water				
Batch: 24E0519								
Lead	ND	---	0.200	ug/L	1	05/15/24 15:51	EPA 200.8	
22392900-044CF24A (A4E1072-41)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	0.334	---	0.200	ug/L	1	05/15/24 15:58	EPA 200.8	
22392900-045BF24A (A4E1072-42)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	0.671	---	0.200	ug/L	1	05/15/24 16:03	EPA 200.8	
22392900-046BF24A (A4E1072-43)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	0.708	---	0.200	ug/L	1	05/15/24 16:05	EPA 200.8	
22392900-047DW24A (A4E1072-44)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	ND	---	0.200	ug/L	1	05/15/24 16:10	EPA 200.8	
22392900-048DW24A (A4E1072-45)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	ND	---	0.200	ug/L	1	05/15/24 16:12	EPA 200.8	

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A4E1072 - 05 22 24 1200

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
22392900-049BF24A (A4E1072-46)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.95	---	0.200	ug/L	1	05/15/24 16:14	EPA 200.8	
22392900-050BF24A (A4E1072-47)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	2.57	---	0.200	ug/L	1	05/15/24 16:15	EPA 200.8	
22392900-051BF24A (A4E1072-48)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.71	---	0.200	ug/L	1	05/15/24 16:17	EPA 200.8	
22392900-052BF24A (A4E1072-49)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	2.07	---	0.200	ug/L	1	05/15/24 16:19	EPA 200.8	
22392900-053BF24A (A4E1072-50)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.28	---	0.200	ug/L	1	05/15/24 16:21	EPA 200.8	
22392900-054BF24A (A4E1072-51)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	0.950	---	0.200	ug/L	1	05/15/24 16:22	EPA 200.8	
22392900-055BF24A (A4E1072-52)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.15	---	0.200	ug/L	1	05/15/24 16:24	EPA 200.8	
22392900-056BF24A (A4E1072-53)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	0.873	---	0.200	ug/L	1	05/15/24 16:26	EPA 200.8	
22392900-057BF24A (A4E1072-54)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.48	---	0.200	ug/L	1	05/15/24 16:31	EPA 200.8	

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Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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
22392900-058BF24A (A4E1072-55)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.47	---	0.200	ug/L	1	05/15/24 16:33	EPA 200.8	
22392900-059BF24A (A4E1072-56)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.55	---	0.200	ug/L	1	05/15/24 16:34	EPA 200.8	
22392900-060BF24A (A4E1072-57)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	1.99	---	0.200	ug/L	1	05/15/24 16:36	EPA 200.8	
22392900-061BF24A (A4E1072-58)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	3.75	---	0.200	ug/L	1	05/15/24 16:38	EPA 200.8	
22392900-062BF24A (A4E1072-59)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	2.10	---	0.200	ug/L	1	05/15/24 16:40	EPA 200.8	
22392900-063BF24A (A4E1072-60)				Matrix: Drinking Water				
Batch: 24E0521								
Lead	2.87	---	0.200	ug/L	1	05/15/24 16:41	EPA 200.8	
22392900-064KF24A (A4E1072-61)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	1.45	---	0.200	ug/L	1	05/15/24 16:52	EPA 200.8	
22392900-065KF24A (A4E1072-62)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	1.99	---	0.200	ug/L	1	05/15/24 16:57	EPA 200.8	
22392900-066KF24A (A4E1072-63RE1)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	3.62	---	0.200	ug/L	1	05/15/24 17:14	EPA 200.8	

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Portland, OR 97239

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

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
22392900-067KF24A (A4E1072-64) Matrix: Drinking Water								
Batch: 24E0545								
Lead	3.80	---	0.200	ug/L	1	05/15/24 17:00	EPA 200.8	
22392900-068KF24A (A4E1072-65) Matrix: Drinking Water								
Batch: 24E0545								
Lead	6.02	---	0.200	ug/L	1	05/15/24 17:02	EPA 200.8	
22392900-0069KF24A (A4E1072-66) Matrix: Drinking Water								
Batch: 24E0545								
Lead	0.367	---	0.200	ug/L	1	05/15/24 17:04	EPA 200.8	
22392900-070KF24A (A4E1072-67) Matrix: Drinking Water								
Batch: 24E0545								
Lead	1.09	---	0.200	ug/L	1	05/15/24 17:06	EPA 200.8	
22392900-071KF24A (A4E1072-68) Matrix: Drinking Water								
Batch: 24E0545								
Lead	0.570	---	0.200	ug/L	1	05/15/24 17:07	EPA 200.8	
22392900-072KF24A (A4E1072-69) Matrix: Drinking Water								
Batch: 24E0545								
Lead	0.554	---	0.200	ug/L	1	05/15/24 17:13	EPA 200.8	
22392900-073KF24A (A4E1072-70) Matrix: Drinking Water								
Batch: 24E0545								
Lead	1.31	---	0.200	ug/L	1	05/15/24 17:18	EPA 200.8	
22392900-074KF24A (A4E1072-71) Matrix: Drinking Water								
Batch: 24E0588								
Lead	16.4	---	0.200	ug/L	1	05/16/24 17:41	EPA 200.8	
22392900-075BF24A (A4E1072-72) Matrix: Drinking Water								
Batch: 24E0545								
Lead	0.223	---	0.200	ug/L	1	05/15/24 17:20	EPA 200.8	

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Project Manager: **Dale Voeller****Report ID:**
A4E1072 - 05 22 24 1200**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
22392900-076DW24A (A4E1072-73)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	0.325	---	0.200	ug/L	1	05/15/24 17:21	EPA 200.8	
22392900-077DW24A (A4E1072-74)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	0.211	---	0.200	ug/L	1	05/15/24 17:23	EPA 200.8	
22392900-078DW24A (A4E1072-75)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	1.45	---	0.200	ug/L	1	05/15/24 17:25	EPA 200.8	
22392900-079DW24A (A4E1072-76)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	ND	---	0.200	ug/L	1	05/15/24 17:27	EPA 200.8	
22392900-080BF24A (A4E1072-77)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	0.722	---	0.200	ug/L	1	05/15/24 17:28	EPA 200.8	
22392900-081BF24A (A4E1072-78)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	1.16	---	0.200	ug/L	1	05/15/24 17:34	EPA 200.8	
22392900-082BF24A (A4E1072-79)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	0.650	---	0.200	ug/L	1	05/15/24 17:35	EPA 200.8	
22392900-083BF24A (A4E1072-80)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	0.663	---	0.200	ug/L	1	05/15/24 17:37	EPA 200.8	
22392900-084CF24A (A4E1072-81)				Matrix: Drinking Water				
Batch: 24E0545								
Lead	0.391	---	0.200	ug/L	1	05/15/24 17:39	EPA 200.8	

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller****Report ID:**
A4E1072 - 05 22 24 1200**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
22392900-085WB24A (A4E1072-82)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	ND	---	0.200	ug/L	1	05/15/24 17:46	EPA 200.8	
22392900-086DW24A (A4E1072-83)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	ND	---	0.200	ug/L	1	05/15/24 17:54	EPA 200.8	
22392900-087DW24A (A4E1072-84)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	ND	---	0.200	ug/L	1	05/15/24 17:56	EPA 200.8	
22392900-088BF24A (A4E1072-85)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.654	---	0.200	ug/L	1	05/15/24 17:58	EPA 200.8	
22392900-089BF24A (A4E1072-86)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.283	---	0.200	ug/L	1	05/15/24 18:00	EPA 200.8	
22392900-090BF24A (A4E1072-87RE1)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.499	---	0.200	ug/L	1	05/15/24 18:05	EPA 200.8	
22392900-091SF24A (A4E1072-88)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.303	---	0.200	ug/L	1	05/15/24 18:03	EPA 200.8	
22392900-092DW24A (A4E1072-89)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.233	---	0.200	ug/L	1	05/15/24 18:07	EPA 200.8	
22392900-093DW24A (A4E1072-90)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.212	---	0.200	ug/L	1	05/15/24 18:08	EPA 200.8	

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Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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
22392900-094WB24A (A4E1072-91)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	ND	---	0.200	ug/L	1	05/15/24 18:10	EPA 200.8	
22392900-095DW24A (A4E1072-92)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	ND	---	0.200	ug/L	1	05/15/24 18:15	EPA 200.8	
22392900-096BF24A (A4E1072-93)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	1.28	---	0.200	ug/L	1	05/15/24 18:17	EPA 200.8	
22392900-097BF24A (A4E1072-94)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.484	---	0.200	ug/L	1	05/15/24 18:19	EPA 200.8	
22392900-098BF24A (A4E1072-95)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.593	---	0.200	ug/L	1	05/15/24 18:21	EPA 200.8	
22392900-099BF24A (A4E1072-96)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.242	---	0.200	ug/L	1	05/15/24 18:22	EPA 200.8	
22392900-100BF24A (A4E1072-97)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.349	---	0.200	ug/L	1	05/15/24 18:24	EPA 200.8	
22392900-101BF24A (A4E1072-98)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.841	---	0.200	ug/L	1	05/15/24 18:26	EPA 200.8	
22392900-102BF24A (A4E1072-99)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.431	---	0.200	ug/L	1	05/15/24 18:28	EPA 200.8	

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Project Manager: **Dale Voeller****Report ID:**
A4E1072 - 05 22 24 1200**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
22392900-103BF24A (A4E1072-AA)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.864	---	0.200	ug/L	1	05/15/24 18:29	EPA 200.8	
22392900-104BF24A (A4E1072-AB)				Matrix: Drinking Water				
Batch: 24E0574								
Lead	0.435	---	0.200	ug/L	1	05/15/24 18:31	EPA 200.8	
22392900-105BF24A (A4E1072-AC)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.06	---	0.200	ug/L	1	05/16/24 14:47	EPA 200.8	
22392900-106BF24A (A4E1072-AD)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	0.291	---	0.200	ug/L	1	05/16/24 14:52	EPA 200.8	
22392900-107BF24A (A4E1072-AE)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	0.339	---	0.200	ug/L	1	05/16/24 14:54	EPA 200.8	
22392900-108BF24A (A4E1072-AF)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.52	---	0.200	ug/L	1	05/16/24 14:56	EPA 200.8	
22392900-109BF24A (A4E1072-AG)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	0.433	---	0.200	ug/L	1	05/16/24 14:58	EPA 200.8	
22392900-110BF24A (A4E1072-AH)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.60	---	0.200	ug/L	1	05/16/24 14:59	EPA 200.8	
22392900-111BF24A (A4E1072-AI)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.44	---	0.200	ug/L	1	05/16/24 15:04	EPA 200.8	

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
22392900-112CF24A (A4E1072-AJ) Matrix: Drinking Water								
Batch: 24E0577								
Lead	1.02	---	0.200	ug/L	1	05/16/24 15:06	EPA 200.8	
22392900-113CF24A (A4E1072-AK) Matrix: Drinking Water								
Batch: 24E0577								
Lead	1.27	---	0.200	ug/L	1	05/16/24 15:08	EPA 200.8	
22392900-114SF24A (A4E1072-AL) Matrix: Drinking Water								
Batch: 24E0577								
Lead	0.383	---	0.200	ug/L	1	05/16/24 15:11	EPA 200.8	
22392900-115OT24A (A4E1072-AM) Matrix: Drinking Water								
Batch: 24E0577								
Lead	0.944	---	0.200	ug/L	1	05/16/24 15:13	EPA 200.8	
22392900-116BF24A (A4E1072-AN) Matrix: Drinking Water								
Batch: 24E0577								
Lead	0.527	---	0.200	ug/L	1	05/16/24 15:14	EPA 200.8	
22392900-117BF24A (A4E1072-AO) Matrix: Drinking Water								
Batch: 24E0577								
Lead	0.896	---	0.200	ug/L	1	05/16/24 15:16	EPA 200.8	
22392900-118CF24A (A4E1072-AP) Matrix: Drinking Water								
Batch: 24E0577								
Lead	1.62	---	0.200	ug/L	1	05/16/24 15:18	EPA 200.8	
22392900-119CF24A (A4E1072-AQ) Matrix: Drinking Water								
Batch: 24E0577								
Lead	1.67	---	0.200	ug/L	1	05/16/24 15:20	EPA 200.8	
22392900-120BF24A (A4E1072-AR) Matrix: Drinking Water								
Batch: 24E0577								
Lead	1.23	---	0.200	ug/L	1	05/16/24 15:26	EPA 200.8	

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Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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
22392900-121BF24A (A4E1072-AS)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.02	---	0.200	ug/L	1	05/16/24 15:28	EPA 200.8	
22392900-122BF24A (A4E1072-AT)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.25	---	0.200	ug/L	1	05/16/24 15:30	EPA 200.8	
22392900-123BF24A (A4E1072-AU)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	1.48	---	0.200	ug/L	1	05/16/24 15:31	EPA 200.8	
22392900-124BF24A (A4E1072-AV)				Matrix: Drinking Water				
Batch: 24E0577								
Lead	0.709	---	0.200	ug/L	1	05/16/24 15:33	EPA 200.8	
22392900-125BF24A (A4E1072-AW)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.222	---	0.200	ug/L	1	05/16/24 15:40	EPA 200.8	
22392900-126BF24A (A4E1072-AX)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.232	---	0.200	ug/L	1	05/16/24 15:48	EPA 200.8	
22392900-127BF24A (A4E1072-AY)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	1.04	---	0.200	ug/L	1	05/16/24 15:50	EPA 200.8	
22392900-128BF24A (A4E1072-AZ)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.763	---	0.200	ug/L	1	05/16/24 15:52	EPA 200.8	
22392900-129BF24A (A4E1072-BA)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.673	---	0.200	ug/L	1	05/16/24 15:54	EPA 200.8	

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Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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
22392900-130BF24A (A4E1072-BB)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.413	---	0.200	ug/L	1	05/16/24 15:55	EPA 200.8	
22392900-131BF24A (A4E1072-BC)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.881	---	0.200	ug/L	1	05/16/24 15:57	EPA 200.8	
22392900-132BF24A (A4E1072-BD)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.233	---	0.200	ug/L	1	05/16/24 15:59	EPA 200.8	
22392900-133BF24A (A4E1072-BE)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.337	---	0.200	ug/L	1	05/16/24 16:00	EPA 200.8	
22392900-134BF24A (A4E1072-BF)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.314	---	0.200	ug/L	1	05/16/24 16:03	EPA 200.8	
22392900-135BF24A (A4E1072-BG)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	1.57	---	0.200	ug/L	1	05/16/24 16:08	EPA 200.8	
22392900-137DW24A (A4E1072-BH)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	ND	---	0.200	ug/L	1	05/16/24 16:10	EPA 200.8	
22392900-140SF24A (A4E1072-BI)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.617	---	0.200	ug/L	1	05/16/24 16:11	EPA 200.8	
22392900-141OT24A (A4E1072-BJ)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	ND	---	0.200	ug/L	1	05/16/24 16:13	EPA 200.8	

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A4E1072 - 05 22 24 1200**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
22392900-142BF24A (A4E1072-BK)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	0.417	---	0.200	ug/L	1	05/16/24 16:15	EPA 200.8	
22392900-143BF24A (A4E1072-BL)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	1.43	---	0.200	ug/L	1	05/16/24 16:16	EPA 200.8	
22392900-144DW24A (A4E1072-BM)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	ND	---	0.200	ug/L	1	05/16/24 16:18	EPA 200.8	
22392900-148CF24A (A4E1072-BN)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	2.65	---	0.200	ug/L	1	05/16/24 16:20	EPA 200.8	
22392900-149CF24A (A4E1072-BO)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	1.89	---	0.200	ug/L	1	05/16/24 16:22	EPA 200.8	
22392900-150DW24A (A4E1072-BP)				Matrix: Drinking Water				
Batch: 24E0580								
Lead	ND	---	0.200	ug/L	1	05/16/24 16:23	EPA 200.8	
22392900-151WB24A (A4E1072-BQ)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	ND	---	0.200	ug/L	1	05/16/24 16:36	EPA 200.8	
22392900-152DW24A (A4E1072-BR)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	ND	---	0.200	ug/L	1	05/16/24 16:41	EPA 200.8	
22392900-153BF24A (A4E1072-BS)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	10.8	---	0.200	ug/L	1	05/16/24 16:42	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
22392900-154BF24A (A4E1072-BT)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	16.2	---	0.200	ug/L	1	05/16/24 16:44	EPA 200.8	
22392900-155BF24A (A4E1072-BU)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	8.87	---	0.200	ug/L	1	05/16/24 16:46	EPA 200.8	
22392900-156BF24A (A4E1072-BV)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	2.65	---	0.200	ug/L	1	05/16/24 16:53	EPA 200.8	
22392900-157BF24A (A4E1072-BW)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	2.07	---	0.200	ug/L	1	05/16/24 16:54	EPA 200.8	
22392900-158BF24A (A4E1072-BX)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	3.26	---	0.200	ug/L	1	05/16/24 16:56	EPA 200.8	
22392900-159BF24A (A4E1072-BY)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	2.06	---	0.200	ug/L	1	05/16/24 16:58	EPA 200.8	
22392900-160BF24A (A4E1072-BZ)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	1.33	---	0.200	ug/L	1	05/16/24 17:00	EPA 200.8	
22392900-161BF24A (A4E1072-CA)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	7.97	---	0.200	ug/L	1	05/16/24 17:01	EPA 200.8	
22392900-162BF24A (A4E1072-CB)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	4.20	---	0.200	ug/L	1	05/16/24 17:03	EPA 200.8	

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
22392900-163BF24A (A4E1072-CC)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	5.59	---	0.200	ug/L	1	05/16/24 17:05	EPA 200.8	
22392900-164BF24A (A4E1072-CD)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	2.58	---	0.200	ug/L	1	05/16/24 17:07	EPA 200.8	
22392900-165BF24A (A4E1072-CE)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	6.28	---	0.200	ug/L	1	05/16/24 17:08	EPA 200.8	
22392900-166BF24A (A4E1072-CFRE1)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	4.28	---	0.200	ug/L	1	05/16/24 17:15	EPA 200.8	
22392900-167SF24A (A4E1072-CG)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	1.83	---	0.200	ug/L	1	05/16/24 17:17	EPA 200.8	
22392900-168SF24A (A4E1072-CH)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	0.424	---	0.200	ug/L	1	05/16/24 17:20	EPA 200.8	
22392900-169OT24A (A4E1072-CI)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	ND	---	0.200	ug/L	1	05/16/24 17:24	EPA 200.8	
22392900-170BF24A (A4E1072-CJ)				Matrix: Drinking Water				
Batch: 24E0582								
Lead	0.309	---	0.200	ug/L	1	05/16/24 17:26	EPA 200.8	
22392900-171BF24A (A4E1072-CK)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.285	---	0.200	ug/L	1	05/16/24 17:46	EPA 200.8	

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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
22392900-172DW24A (A4E1072-CL)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.235	---	0.200	ug/L	1	05/16/24 17:48	EPA 200.8	
22392900-173DW24A (A4E1072-CM)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	ND	---	0.200	ug/L	1	05/16/24 17:50	EPA 200.8	
22392900-174BF24A (A4E1072-CN)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.711	---	0.200	ug/L	1	05/16/24 17:52	EPA 200.8	
22392900-175BF24A (A4E1072-CO)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.761	---	0.200	ug/L	1	05/16/24 17:53	EPA 200.8	
22392900-176BF24A (A4E1072-CP)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.236	---	0.200	ug/L	1	05/16/24 17:58	EPA 200.8	
22392900-177BF24A (A4E1072-CQ)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	ND	---	0.200	ug/L	1	05/16/24 18:00	EPA 200.8	
22392900-178BF24A (A4E1072-CR)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.837	---	0.200	ug/L	1	05/16/24 18:02	EPA 200.8	
22392900-179BF24A (A4E1072-CS)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.602	---	0.200	ug/L	1	05/16/24 18:04	EPA 200.8	
22392900-180BF24A (A4E1072-CT)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.306	---	0.200	ug/L	1	05/16/24 18:05	EPA 200.8	

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PBS Engineering and Environmental
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Portland, OR 97239

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

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
22392900-181BF24A (A4E1072-CU)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.529	---	0.200	ug/L	1	05/16/24 18:07	EPA 200.8	
22392900-182BF24A (A4E1072-CV)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.504	---	0.200	ug/L	1	05/16/24 18:09	EPA 200.8	
22392900-183BF24A (A4E1072-CW)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.493	---	0.200	ug/L	1	05/16/24 18:11	EPA 200.8	
22392900-185BF24A (A4E1072-CX)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.290	---	0.200	ug/L	1	05/16/24 18:12	EPA 200.8	
22392900-187DW24A (A4E1072-CY)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	0.252	---	0.200	ug/L	1	05/16/24 18:14	EPA 200.8	
22392900-042WB24A (A4E1072-CZ)				Matrix: Drinking Water				
Batch: 24E0588								
Lead	ND	---	0.200	ug/L	1	05/16/24 18:19	EPA 200.8	

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Portland, OR 97239Project: Hillsboro School District
Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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 24E0518 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0518-BLK1)		Prepared: 05/14/24 16:04 Analyzed: 05/15/24 14:04										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0518-BS1)		Prepared: 05/14/24 16:04 Analyzed: 05/15/24 14:05										
EPA 200.8												
Lead	15.2	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	
Duplicate (24E0518-DUP1)		Prepared: 05/14/24 16:04 Analyzed: 05/15/24 14:09										
QC Source Sample: 22392900-001KF24A (A4E1072-01)												
EPA 200.8												
Lead	0.254	---	0.200	ug/L	1	---	0.267	---	---	5	20%	
Matrix Spike (24E0518-MS1)		Prepared: 05/14/24 16:04 Analyzed: 05/15/24 14:10										
QC Source Sample: 22392900-001KF24A (A4E1072-01)												
EPA 200.8												
Lead	15.0	---	0.201	ug/L	1	15.0	0.267	98	70 - 130%	---	---	
Matrix Spike (24E0518-MS2)		Prepared: 05/14/24 16:04 Analyzed: 05/15/24 14:53										
QC Source Sample: 22392900-020KF24A (A4E1072-20)												
EPA 200.8												
Lead	15.3	---	0.201	ug/L	1	15.0	0.309	100	70 - 130%	---	---	
Batch 24E0519 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0519-BLK1)		Prepared: 05/14/24 17:15 Analyzed: 05/15/24 15:00										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0519-BS1)		Prepared: 05/14/24 17:15 Analyzed: 05/15/24 15:01										
EPA 200.8												
Lead	15.0	---	0.201	ug/L	1	15.0	---	100	85 - 115%	---	---	
Duplicate (24E0519-DUP1)		Prepared: 05/14/24 17:15 Analyzed: 05/15/24 15:10										
QC Source Sample: 22392900-021BF24A (A4E1072-21)												

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

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

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 24E0519 - EPA 200.8 Direct Analysis							Drinking Water					
Duplicate (24E0519-DUP1)			Prepared: 05/14/24 17:15		Analyzed: 05/15/24 15:10							
<u>QC Source Sample: 22392900-021BF24A (A4E1072-21)</u>												
<u>EPA 200.8</u>												
Lead	0.441	---	0.200	ug/L	1	---	0.446	---	---	1	20%	
Matrix Spike (24E0519-MS1)			Prepared: 05/14/24 17:15		Analyzed: 05/15/24 15:12							
<u>QC Source Sample: 22392900-021BF24A (A4E1072-21)</u>												
<u>EPA 200.8</u>												
Lead	15.1	---	0.201	ug/L	1	15.0	0.446	98	70 - 130%	---	---	
Matrix Spike (24E0519-MS2)			Prepared: 05/14/24 17:15		Analyzed: 05/15/24 15:53							
<u>QC Source Sample: 22392900-043DW24A (A4E1072-40)</u>												
<u>EPA 200.8</u>												
Lead	15.3	---	0.201	ug/L	1	15.0	ND	102	70 - 130%	---	---	

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Portland, OR 97239Project: Hillsboro School District
Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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 24E0521 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0521-BLK1)		Prepared: 05/14/24 17:58		Analyzed: 05/15/24 15:55								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0521-BS1)		Prepared: 05/14/24 17:58		Analyzed: 05/15/24 15:57								
<u>EPA 200.8</u>												
Lead	14.9	---	0.201	ug/L	1	15.0	---	100	85 - 115%	---	---	
Duplicate (24E0521-DUP1)		Prepared: 05/14/24 17:58		Analyzed: 05/15/24 16:00								
<u>QC Source Sample: 22392900-044CF24A (A4E1072-41)</u>												
<u>EPA 200.8</u>												
Lead	0.340	---	0.200	ug/L	1	---	0.334	---	---	2	20%	
Matrix Spike (24E0521-MS1)		Prepared: 05/14/24 17:58		Analyzed: 05/15/24 16:02								
<u>QC Source Sample: 22392900-044CF24A (A4E1072-41)</u>												
<u>EPA 200.8</u>												
Lead	15.7	---	0.201	ug/L	1	15.0	0.334	102	70 - 130%	---	---	
Matrix Spike (24E0521-MS3)		Prepared: 05/14/24 17:58		Analyzed: 05/15/24 17:16								
<u>QC Source Sample: 22392900-063BF24A (A4E1072-60)</u>												
<u>EPA 200.8</u>												
Lead	17.8	---	0.201	ug/L	1	15.0	2.87	99	70 - 130%	---	---	Q-16

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Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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 24E0545 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0545-BLK1)		Prepared: 05/15/24 09:22		Analyzed: 05/15/24 16:45								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0545-BS1)		Prepared: 05/15/24 09:22		Analyzed: 05/15/24 16:47								
<u>EPA 200.8</u>												
Lead	14.9	---	0.201	ug/L	1	15.0	---	99	85 - 115%	---	---	
Duplicate (24E0545-DUP1)		Prepared: 05/15/24 09:22		Analyzed: 05/15/24 16:53								
<u>QC Source Sample: 22392900-064KF24A (A4E1072-61)</u>												
<u>EPA 200.8</u>												
Lead	1.45	---	0.200	ug/L	1	---	1.45	---	---	0.2	20%	
Matrix Spike (24E0545-MS1)		Prepared: 05/15/24 09:22		Analyzed: 05/15/24 16:55								
<u>QC Source Sample: 22392900-064KF24A (A4E1072-61)</u>												
<u>EPA 200.8</u>												
Lead	16.1	---	0.201	ug/L	1	15.0	1.45	98	70 - 130%	---	---	
Matrix Spike (24E0545-MS2)		Prepared: 05/15/24 09:22		Analyzed: 05/15/24 17:40								
<u>QC Source Sample: 22392900-084CF24A (A4E1072-81)</u>												
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	0.391	100	70 - 130%	---	---	

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Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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 24E0574 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0574-BLK1)		Prepared: 05/15/24 14:11 Analyzed: 05/15/24 17:42										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0574-BS1)		Prepared: 05/15/24 14:11 Analyzed: 05/15/24 17:44										
EPA 200.8												
Lead	16.1	---	0.201	ug/L	1	15.0	---	107	85 - 115%	---	---	
Duplicate (24E0574-DUP1)		Prepared: 05/15/24 14:11 Analyzed: 05/15/24 17:47										
QC Source Sample: 22392900-085WB24A (A4E1072-82)												
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (24E0574-MS1)		Prepared: 05/15/24 14:11 Analyzed: 05/15/24 17:49										
QC Source Sample: 22392900-085WB24A (A4E1072-82)												
EPA 200.8												
Lead	14.6	---	0.201	ug/L	1	15.0	ND	97	70 - 130%	---	---	
Matrix Spike (24E0574-MS2)		Prepared: 05/15/24 14:11 Analyzed: 05/15/24 18:37										
QC Source Sample: 22392900-104BF24A (A4E1072-AB)												
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	0.435	98	70 - 130%	---	---	

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Project Manager: Dale VoellerReport ID:
A4E1072 - 05 22 24 1200

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 24E0577 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0577-BLK1)		Prepared: 05/15/24 15:31 Analyzed: 05/16/24 14:44										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0577-BS2)		Prepared: 05/15/24 15:31 Analyzed: 05/16/24 15:09										
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	---	100	85 - 115%	---	---	Q-16
Duplicate (24E0577-DUP1)		Prepared: 05/15/24 15:31 Analyzed: 05/16/24 14:49										
QC Source Sample: 22392900-105BF24A (A4E1072-AC)												
EPA 200.8												
Lead	1.07	---	0.200	ug/L	1	---	1.06	---	---	0.9	20%	
Matrix Spike (24E0577-MS1)		Prepared: 05/15/24 15:31 Analyzed: 05/16/24 14:51										
QC Source Sample: 22392900-105BF24A (A4E1072-AC)												
EPA 200.8												
Lead	15.9	---	0.201	ug/L	1	15.0	1.06	99	70 - 130%	---	---	
Matrix Spike (24E0577-MS2)		Prepared: 05/15/24 15:31 Analyzed: 05/16/24 15:35										
QC Source Sample: 22392900-124BF24A (A4E1072-AV)												
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	0.709	96	70 - 130%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0580 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0580-BLK1)		Prepared: 05/15/24 16:26 Analyzed: 05/16/24 15:37										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0580-BS1)		Prepared: 05/15/24 16:26 Analyzed: 05/16/24 15:38										
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	---	98	85 - 115%	---	---	
Duplicate (24E0580-DUP1)		Prepared: 05/15/24 16:26 Analyzed: 05/16/24 15:42										
QC Source Sample: 22392900-125BF24A (A4E1072-AW)												
EPA 200.8												
Lead	0.206	---	0.200	ug/L	1	---	0.222	---	---	7	20%	
Matrix Spike (24E0580-MS1)		Prepared: 05/15/24 16:26 Analyzed: 05/16/24 15:47										
QC Source Sample: 22392900-125BF24A (A4E1072-AW)												
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	0.222	97	70 - 130%	---	---	
Matrix Spike (24E0580-MS2)		Prepared: 05/15/24 16:26 Analyzed: 05/16/24 16:28										
QC Source Sample: 22392900-150DW24A (A4E1072-BP)												
EPA 200.8												
Lead	14.5	---	0.201	ug/L	1	15.0	ND	97	70 - 130%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24E0582 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0582-BLK1)		Prepared: 05/15/24 17:07 Analyzed: 05/16/24 16:32										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0582-BS1)		Prepared: 05/15/24 17:07 Analyzed: 05/16/24 16:34										
EPA 200.8												
Lead	14.7	---	0.201	ug/L	1	15.0	---	98	85 - 115%	---	---	
Duplicate (24E0582-DUP1)		Prepared: 05/15/24 17:07 Analyzed: 05/16/24 16:37										
QC Source Sample: 22392900-151WB24A (A4E1072-BQ)												
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (24E0582-MS1)		Prepared: 05/15/24 17:07 Analyzed: 05/16/24 16:39										
QC Source Sample: 22392900-151WB24A (A4E1072-BQ)												
EPA 200.8												
Lead	14.4	---	0.201	ug/L	1	15.0	ND	96	70 - 130%	---	---	
Matrix Spike (24E0582-MS2)		Prepared: 05/15/24 17:07 Analyzed: 05/16/24 17:27										
QC Source Sample: 22392900-170BF24A (A4E1072-CJ)												
EPA 200.8												
Lead	14.7	---	0.201	ug/L	1	15.0	0.309	96	70 - 130%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1072 - 05 22 24 1200

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 24E0588 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0588-BLK1)		Prepared: 05/15/24 18:19		Analyzed: 05/16/24 17:38								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0588-BS1)		Prepared: 05/15/24 18:19		Analyzed: 05/16/24 17:39								
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	---	99	85 - 115%	---	---	
Duplicate (24E0588-DUP1)		Prepared: 05/15/24 18:19		Analyzed: 05/16/24 17:43								
QC Source Sample: 22392900-074KF24A (A4E1072-71)												
EPA 200.8												
Lead	16.3	---	0.200	ug/L	1	---	16.4	---	---	0.2	20%	
Matrix Spike (24E0588-MS1)		Prepared: 05/15/24 18:19		Analyzed: 05/16/24 17:45								
QC Source Sample: 22392900-074KF24A (A4E1072-71)												
EPA 200.8												
Lead	30.6	---	0.201	ug/L	1	15.0	16.4	95	70 - 130%	---	---	

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Jason Woodcock, Project Manager

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Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

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: 24E0518</u>							
A4E1072-01	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-02	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-03	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-04	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-05	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-06	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-07	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-08	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-09	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-10	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-11	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-12	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-13	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-14	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-15	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-16	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-17	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-18	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-19	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
A4E1072-20	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 16:04	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0519</u>							
A4E1072-21	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-22	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-23	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-24	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-25	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-26	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-27	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-28	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-29	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-30	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-31	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-32	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-33	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-34	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-35	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

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
A4E1072-36	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-37	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-38	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-39	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
A4E1072-40	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:15	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0521</u>							
A4E1072-41	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-42	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-43	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-44	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-45	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-46	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-47	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-48	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-49	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-50	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-51	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-52	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-53	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-54	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-55	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-56	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-57	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-58	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-59	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
A4E1072-60	Drinking Water	EPA 200.8	04/27/24 00:00	05/14/24 17:58	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0545</u>							
A4E1072-61	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-62	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-63RE1	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-64	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-65	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-66	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-67	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-68	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-69	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

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
A4E1072-70	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-72	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-73	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-74	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-75	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-76	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-77	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-78	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-79	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-80	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00
A4E1072-81	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 09:22	10mL/10mL	10mL/10mL	1.00

Batch: 24E0574

A4E1072-82	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-83	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-84	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-85	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-86	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-87RE1	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-88	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-89	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-90	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-91	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-92	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-93	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-94	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-95	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-96	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-97	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-98	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-99	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-AA	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00
A4E1072-AB	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 14:11	10mL/10mL	10mL/10mL	1.00

Batch: 24E0577

A4E1072-AC	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AD	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AE	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC****6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323****ORELAP ID: OR100062****PBS Engineering and Environmental****4412 S Corbett Ave
Portland, OR 97239**Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1072 - 05 22 24 1200****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
A4E1072-AF	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AG	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AH	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AI	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AJ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AK	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AL	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AM	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AN	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AO	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AP	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AQ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AR	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AS	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AT	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AU	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
A4E1072-AV	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 15:31	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0580</u>							
A4E1072-AW	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-AX	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-AY	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-AZ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BA	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BB	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BC	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BD	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BE	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BF	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BG	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BH	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BI	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BJ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BK	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BL	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BM	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BN	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
A4E1072-BO	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

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
A4E1072-BP	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 16:26	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0582</u>							
A4E1072-BQ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BR	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BS	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BT	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BU	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BV	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BW	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BX	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BY	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-BZ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CA	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CB	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CC	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CD	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CE	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CFRE1	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CG	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CH	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CI	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
A4E1072-CJ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 17:07	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0588</u>							
A4E1072-71	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CK	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CL	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CM	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CN	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CO	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CP	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CQ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CR	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CS	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CT	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CU	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CV	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

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

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

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
A4E1072-CW	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CX	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CY	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00
A4E1072-CZ	Drinking Water	EPA 200.8	04/27/24 00:00	05/15/24 18:19	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1072 - 05 22 24 1200

QUALIFIER DEFINITIONS

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

Apex Laboratories

Q-16 Reanalysis of an original Batch QC sample.

Apex Laboratories

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Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

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

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ANALYTICAL REPORT

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Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

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

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

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

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1072 - 05 22 24 1200

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Jason Woodcock, Project Manager

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PBS Engineering and Environmental

 4412 S Corbett Ave
 Portland, OR 97239

 Project: **Hillsboro School District**

 Project Number: **Liberty HS/23440.190**

 Project Manager: **Dale Voeller**
Report ID:
A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

 Date Collected: 04/27/2024

 PBS Project: 23440.190 / 0004

 School Name: Liberty High School – Round 1

 Building: Main Building

 Building Number: 22392900

 Analysis Requested: Lead (Pb) in Drinking Water

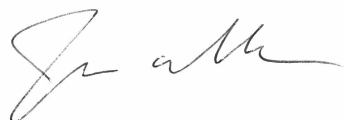
 Email Results To: voeller@pbsusa.com

 Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	001	22392900-001KF24A	Room 222 – Culinary Arts, north island prep sink
2	002	22392900-002KF24A	Room 222 – Culinary Arts, south island prep sink
3	003	22392900-003KF24A	Room 222 – Culinary Arts, east wall prep sink
4	004	22392900-004BF24A	Main office, staff restroom, left restroom sink faucet
5	005	22392900-005BF24A	Main office, staff restroom, right restroom sink faucet
6	006	22392900-006NS24A	Main office, health room
7	007	22392900-007BF24A	Main office, health room restroom
8	008	22392900-008DW24A	Main office workroom – drinking fountain at kitchenette
9	009	22392900-009SF24A	Main office workroom – staff sink faucet
10	010	22392900-010KF24A	MRDD Room 150, kitchenette sink faucet
11	011	22392900-011BF24A	MRDD Room 150, left restroom – left sink faucet
12	012	22392900-012BF24A	MRDD Room 150, left restroom – right sink faucet
13	013	22392900-013BF24A	MRDD Room 150, right restroom – left sink faucet
14	014	22392900-014BF24A	MRDD Room 150, left restroom – right sink faucet
15	015	22392900-015CF24A	MRDD Room 150, east storage/laundry room
16	016	22392900-016SF24A	Room 158 storage room, sink faucet
17	017	22392900-017BF24A	Room 162, left restroom sink faucet
18	018	22392900-018BF24A	Room 162, right restroom sink faucet
19	019	22392900-019KF24A	Room 162, kitchenette, left sink faucet
20	020	22392900-020KF24A	Room 162, kitchenette, right sink faucet

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Apex Laboratories



Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
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PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

Hillsboro School District

Date Collected: **04/27/2024**

School Name: **Liberty High School**

	Fixture Number	Sample Number	Room / Location
21	021	22392900-021BF24A	Room 164, restroom sink faucet
22	022	22392900-022CF24A	Room 164, sink across from restroom
23	023	22392900-023SF24A	SW work room at Teachers Office - sink faucet
24	024	22392900-024OT24A	SW work room at Teachers Office - hot water tap
25	025	22392900-025BF24A	SW work room at Teachers Office - left restroom sink faucet
26	026	22392900-026BF24A	SW work room at Teachers Office - right restroom sink faucet
27	027	22392900-027BF24A	West mens restroom - sampled left to right (1)
28	028	22392900-028BF24A	West mens restroom - sampled left to right (2)
29	029	22392900-029BF24A	West mens restroom - sampled left to right (3)
30	030	22392900-030BF24A	West mens restroom - sampled left to right (4)
31	031	22392900-031BF24A	West mens restroom - sampled left to right (5)
32	032	22392900-032BF24A	West womens restroom - sampled left to right (1)
33	033	22392900-033BF24A	West womens restroom - sampled left to right (2)
34	034	22392900-034BF24A	West womens restroom - sampled left to right (3)
35	035	22392900-035BF24A	West womens restroom - sampled left to right (4)
36	036	22392900-036BF24A	West womens restroom - sampled left to right (5)
37	037	22392900-037BF24A	West womens restroom - sampled left to right (6)
38	038		West womens restroom - sampled left to right (7) (not working)
39	039		West hallway, drinking fountain - left (not working)
40	040	22392900-040DW24A	West hallway, drinking fountain - right
41	041	22392900-041DW24A	Room 170 / Band Room - drinking fountain
42	042	22392900-042WB24A	Choir Room - water bottle filler
43	043	22392900-043DW24A	Choir Room - drinking fountain
44	044	22392900-044CF24A	Drama Room - sink faucet
45	045	22392900-045BF24A	Drama, mens dressing room restroom
46	046	22392900-046BF24A	Drama, womens dressing room restroom
47	047	22392900-047DW24A	Drinking fountains near SE elevator - left
48	048	22392900-048DW24A	Drinking fountains near SE elevator - right
49	049	22392900-049BF24A	ADA restroom at auditorium entrance, sink faucet
50	050	22392900-050BF24A	Auditorium mens restroom - sampled left to right (1)



2 of 7

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

A4E1072
Hillsboro School District

Date Collected: 04/27/2024

School Name: Liberty High School

	Fixture Number	Sample Number	Room / Location
51	051	22392900-051BF24A	Auditorium mens restroom – sampled left to right (2)
52	052	22392900-052BF24A	Auditorium mens restroom – sampled left to right (3)
53	053	22392900-053BF24A	Auditorium mens restroom – sampled left to right (4)
54	054	22392900-054BF24A	Auditorium mens restroom – sampled left to right (5)
55	055	22392900-055BF24A	Auditorium mens restroom – sampled left to right (6)
56	056	22392900-056BF24A	Auditorium womens restroom – sampled left to right (1)
57	057	22392900-057BF24A	Auditorium womens restroom – sampled left to right (2)
58	058	22392900-058BF24A	Auditorium womens restroom – sampled left to right (3)
59	059	22392900-059BF24A	Auditorium womens restroom – sampled left to right (4)
60	060	22392900-060BF24A	Auditorium womens restroom – sampled left to right (5)
61	061	22392900-061BF24A	Auditorium womens restroom – sampled left to right (6)
62	062	22392900-062BF24A	Auditorium womens restroom – sampled left to right (7)
63	063	22392900-063BF24A	Auditorium womens restroom – sampled left to right (8)
64	064	22392900-064KF24A	Commons area concession stand – sink faucet
65	065	22392900-065KF24A	Kitchen, west wall at ice machine, single prep sink
66	066	22392900-066KF24A	Kitchen, north side, double prep sink faucet
67	067	22392900-067KF24A	Kitchen, north side, double prep sink sprayer
68	068	22392900-068KF24A	Kitchen, east wall, wand faucet at big mixer
69	069	22392900-069KF24A	Kitchen, SE corner, single prep sink
70	070	22392900-070KF24A	Kitchen, south side, single prep sink
71	071	22392900-071KF24A	Kitchen, center prep island – west single prep sink
72	072	22392900-072KF24A	Kitchen, center prep island – center single prep sink
73	073	22392900-073KF24A	Kitchen, small pot filler faucet
74	074	22392900-074KF24A	Kitchen, large pot filler faucet
75	075	22392900-075BF24A	Kitchen, staff restroom, sink faucet
76	076	22392900-076DW24A	Gym drinking fountain, SW wall - left
77	077	22392900-077DW24A	Gym drinking fountain, SW wall - right
78	078	22392900-078DW24A	Gym drinking fountain, SE wall - left
79	079	22392900-079DW24A	Gym drinking fountain, SE wall - right
80	080	22392900-080BF24A	Coaches Room 193, restroom sink faucet



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Apex Laboratories

Jason Woodcock, Project Manager

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PBS Engineering and Environmental

 4412 S Corbett Ave
 Portland, OR 97239

 Project: **Hillsboro School District**

 Project Number: **Liberty HS/23440.190**

 Project Manager: **Dale Voeller**
Report ID:
A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

Hillsboro School District

 Date Collected: 04/27/2024

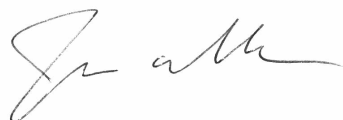
 School Name: Liberty High School

	Fixture Number	Sample Number	Room / Location
81	081	22392900-081BF24A	Girls locker room restroom sinks – sampled left to right (1)
82	082	22392900-082BF24A	Girls locker room restroom sinks – sampled left to right (2)
83	083	22392900-083BF24A	Girls locker room restroom sinks – sampled left to right (3)
84	084	22392900-084CF24A	Team / Sports Medicine Room, sink faucet
85	085	22392900-085WB24A	Hall north of gym, water bottle filler
86	086	22392900-086DW24A	Hall north of gym, drinking fountain – left
87	087	22392900-087DW24A	Hall north of gym, drinking fountain – right
88	088	22392900-088BF24A	Boys locker room restroom sinks – sampled left to right (1)
89	089	22392900-089BF24A	Boys locker room restroom sinks – sampled left to right (2)
90	090	22392900-090BF24A	Boys locker room restroom sinks – sampled left to right (3)
91	091	22392900-091SF24A	Storage room near loading dock, sink faucet
92	092	22392900-092DW24A	Hall at NW stairs, drinking fountain – left
93	093	22392900-093DW24A	Hall at NW stairs, drinking fountain – right
94	094	22392900-094WB24A	Hall at north restrooms, water bottle filler
95	095	22392900-095DW24A	Hall at north restrooms, drinking fountain – left
96	096	22392900-096BF24A	North womens restroom – sampled left to right (1)
97	097	22392900-097BF24A	North womens restroom – sampled left to right (2)
98	098	22392900-098BF24A	North womens restroom – sampled left to right (3)
99	099	22392900-099BF24A	North womens restroom – sampled left to right (4)
100	100	22392900-100BF24A	North womens restroom – sampled left to right (5)
101	101	22392900-101BF24A	North womens restroom – sampled left to right (6)
102	102	22392900-102BF24A	North womens restroom – sampled left to right (7)
103	103	22392900-103BF24A	North womens restroom – sampled left to right (8)
104	104	22392900-104BF24A	North mens restroom – sampled left to right (1)
105	105	22392900-105BF24A	North mens restroom – sampled left to right (2)
106	106	22392900-106BF24A	North mens restroom – sampled left to right (3)
107	107	22392900-107BF24A	North mens restroom – sampled left to right (4)
108	108	22392900-108BF24A	North mens restroom – sampled left to right (5)
109	109	22392900-109BF24A	North mens restroom – sampled left to right (6)
110	110	22392900-110BF24A	North mens restroom – sampled left to right (7)



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Apex Laboratories



Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

Hillsboro School District

Date Collected: 04/27/2024

School Name: Liberty High School

	Fixture Number	Sample Number	Room / Location
111	111	22392900-111BF24A	North mens restroom – sampled left to right (8)
112	112	22392900-112CF24A	Room 142, sink faucet
113	113	22392900-113CF24A	Room 140, sink faucet
114	114	22392900-114SF24A	NE work room at Teachers Office – sink faucet
115	115	22392900-115OT24A	NE work room at Teachers Office – hot water tap
116	116	22392900-116BF24A	NE work room at Teachers Office - left restroom sink faucet
117	117	22392900-117BF24A	NE work room at Teachers Office - right restroom sink faucet
118	118	22392900-118CF24A	Room 137, sink faucet
119	119	22392900-119CF24A	Room 139, sink faucet
120	120	22392900-120BF24A	2nd floor, north womens restroom – sampled left to right (1)
121	121	22392900-121BF24A	2nd floor, north womens restroom – sampled left to right (2)
122	122	22392900-122BF24A	2nd floor, north womens restroom – sampled left to right (3)
123	123	22392900-123BF24A	2nd floor, north womens restroom – sampled left to right (4)
124	124	22392900-124BF24A	2nd floor, north womens restroom – sampled left to right (5)
125	125	22392900-125BF24A	2nd floor, north womens restroom – sampled left to right (6)
126	126	22392900-126BF24A	2nd floor, north womens restroom – sampled left to right (7)
127	127	22392900-127BF24A	2nd floor, north womens restroom – sampled left to right (8)
128	128	22392900-128BF24A	2nd floor, north mens restroom – sampled left to right (1)
129	129	22392900-129BF24A	2nd floor, north mens restroom – sampled left to right (2)
130	130	22392900-130BF24A	2nd floor, north mens restroom – sampled left to right (3)
131	131	22392900-131BF24A	2nd floor, north mens restroom – sampled left to right (4)
132	132	22392900-132BF24A	2nd floor, north mens restroom – sampled left to right (5)
133	133	22392900-133BF24A	2nd floor, north mens restroom – sampled left to right (6)
134	134	22392900-134BF24A	2nd floor, north mens restroom – sampled left to right (7)
135	135	22392900-135BF24A	2nd floor, north mens restroom – sampled left to right (8)
136	136		2nd floor, north hall, drinking fountain – left (not working)
137	137	22392900-137DW24A	2nd floor, north hall, drinking fountain – right
138	138		Upper gym drinking fountain – left (not working)
139	139		Upper gym drinking fountain – right (not working)
140	140	22392900-140SF24A	2nd floor NE work room, sink faucet
141	141	22392900-141OT24A	2nd floor NE work room – hot water tap



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Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

Hillsboro School District

Date Collected: 04/27/2024

School Name: Liberty High School

	Fixture Number	Sample Number	Room / Location
142	142	22392900-142BF24A	2nd floor NE work room - left restroom sink faucet
143	143	22392900-143BF24A	2nd floor NE work room - right restroom sink faucet
144	144	22392900-144DW24A	Room 293 / Weight Fitness, drinking fountain
145	145		Room 294 / Wrestling Dance, drinking fountain (not working)
146	146		2nd floor, NW corner hallway, drinking fountain - left (not working)
147	147		2nd floor, NW corner hallway, drinking fountain - right (not working)
148	148	22392900-148CF24A	Conference room 202, sink faucet
149	149	22392900-149CF24A	Room 202B, book storage, sink faucet
150	150	22392900-150DW24A	2nd floor, south hall by elevator, left drinking fountain
151	151	22392900-151WB24A	2nd floor, south hall by elevator, water bottle filler
152	152	22392900-152DW24A	2nd floor, south hall by elevator, right drinking fountain
153	153	22392900-153BF24A	2nd floor, south mens restroom - sampled left to right (1)
154	154	22392900-154BF24A	2nd floor, south mens restroom - sampled left to right (2)
155	155	22392900-155BF24A	2nd floor, south mens restroom - sampled left to right (3)
156	156	22392900-156BF24A	2nd floor, south mens restroom - sampled left to right (4)
157	157	22392900-157BF24A	2nd floor, south mens restroom - sampled left to right (5)
158	158	22392900-158BF24A	2nd floor, south mens restroom - sampled left to right (6)
159	159	22392900-159BF24A	2nd floor, south mens restroom - sampled left to right (7)
160	160	22392900-160BF24A	2nd floor, south womens restroom - sampled left to right (1)
161	161	22392900-161BF24A	2nd floor, south womens restroom - sampled left to right (2)
162	162	22392900-162BF24A	2nd floor, south womens restroom - sampled left to right (3)
163	163	22392900-163BF24A	2nd floor, south womens restroom - sampled left to right (4)
164	164	22392900-164BF24A	2nd floor, south womens restroom - sampled left to right (5)
165	165	22392900-165BF24A	2nd floor, south womens restroom - sampled left to right (6)
166	166	22392900-166BF24A	2nd floor, south womens restroom - sampled left to right (7)
167	167	22392900-167SF24A	Storage between classroom 260 and 262, sink faucet
168	168	22392900-168SF24A	2nd floor, south work room at Teachers Office - sink faucet
169	169	22392900-169OT24A	2nd floor, south work room at Teachers Office - hot water tap
170	170	22392900-170BF24A	2nd floor, south work room at Teachers Office - left restroom sink faucet
171	171	22392900-171BF24A	2nd floor, South work room at Teachers Office - right restroom sink faucet



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Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1072 - 05 22 24 1200

Lead in Drinking Water Testing Program

A4E1072
Hillsboro School District

Date Collected: 04/27/2024

School Name: Liberty High School

	Fixture Number	Sample Number	Room / Location
172	172	22392900-172DW24A	2nd floor, SW hallway, left drinking fountain
173	173	22392900-173DW24A	2nd floor, SW hallway, right drinking fountain
174	174	22392900-174BF24A	2nd floor, SW womens restroom – left to right (1)
175	175	22392900-175BF24A	2nd floor, SW womens restroom – sampled left to right (2)
176	176	22392900-176BF24A	2nd floor, SW womens restroom –left to right (3)
177	177	22392900-177BF24A	2nd floor, SW womens restroom – sampled left to right (4)
178	178	22392900-178BF24A	2nd floor, SW womens restroom – sampled left to right (5)
179	179	22392900-179BF24A	2nd floor, SW womens restroom – sampled left to right (6)
180	180	22392900-180BF24A	2nd floor, SW womens restroom – sampled left to right (7)
181	181	22392900-181BF24A	2nd floor, SW mens restroom – sampled left to right (1)
182	182	22392900-182BF24A	2nd floor, SW mens restroom – sampled left to right (2)
183	183	22392900-183BF24A	2nd floor, SW mens restroom – sampled left to right (3)
184	184		2nd floor, SW mens restroom –left to right (4) (not working)
185	185	22392900-185BF24A	2nd floor, SW mens restroom – sampled left to right (5)
186	186		2nd floor drinking fountain at NW stairs – Left (not working)
187	187	22392900-187DW24A	2nd floor drinking fountain at NW stairs – Right
188			
189			
190			
191			
192			
193			
194			
195			
196			
197			

Relinquished By/Signature Dale Voeller

Date/Time: 5/6/24 @ 5:50 PM

Received By/Signature: [Signature]

Date/Time: 5/7/24 12:50



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Apex Laboratories

[Signature]

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1072 - 05 22 24 1200

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4E1072

Project/Project #: Liberty High School - Round 1 / 23440.190/0004

Delivery Info:

Date/time received: 5/7/24 @ 12:50 By: AJM

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

From USDA Regulated Origin? Yes No X

Cooler Inspection Date/time inspected: 5/7/24 @ 14:20 By: JRM

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

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

Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7

Temperature (°C) 2.3

Custody seals? (Y/N) N

Received on ice? (Y/N) N

Temp. blanks? (Y/N) N

Ice type: (Gel/Real/Other) None

Condition (In/Out): Out

Cooler out of temp? (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: 5/7/24 @ 10:12 By: JRM

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

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

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes X No NA pH appropriate? Yes X No NA pH ID: A231172

Comments:

Labeled by:

Witness:

Cooler Inspected by:

Form Y-003 R-02

Apex Laboratories

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Jason Woodcock, Project Manager

Page 54 of 54



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Thursday, June 6, 2024

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A4E1572 - Hillsboro School District - Liberty HS/23440.190

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 A4E1572, which was received by the laboratory on 5/21/2024 at 1:08:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: jwoodcock@apex-labs.com, or by phone at 503-718-2323.

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

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 17.1 degC

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

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



Apex Laboratories

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1572 - 06 06 24 1109****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-038BF24A	A4E1572-01	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-039DW24A	A4E1572-02	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-136DW24A	A4E1572-03	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-138DW24A	A4E1572-04	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-139DW24A	A4E1572-05	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-145DW24A	A4E1572-06	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-146DW24A	A4E1572-07	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-147DW24A	A4E1572-08	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-148CF24B	A4E1572-09	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-149CF24B	A4E1572-10	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-184BF24A	A4E1572-11	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-188DW24A	A4E1572-12	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-189DW24A	A4E1572-13	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-190KF24A	A4E1572-14	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-191BF24A	A4E1572-15	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-192BF24A	A4E1572-16	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-193BF24A	A4E1572-17	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-194BF24A	A4E1572-18	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-195BF24A	A4E1572-19	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-196BF24A	A4E1572-20	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-197BF24A	A4E1572-21	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-198BF24A	A4E1572-22	Drinking Water	05/18/24 00:00	05/21/24 13:08
22392900-199BF24A	A4E1572-23	Drinking Water	05/18/24 00:00	05/21/24 13:08

Apex Laboratories

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller****Report ID:**
A4E1572 - 06 06 24 1109**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
22392900-038BF24A (A4E1572-01)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	1.26	---	0.200	ug/L	1	05/29/24 13:11	EPA 200.8	
22392900-039DW24A (A4E1572-02)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	0.525	---	0.200	ug/L	1	05/29/24 13:19	EPA 200.8	
22392900-136DW24A (A4E1572-03)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	ND	---	0.200	ug/L	1	05/29/24 13:21	EPA 200.8	
22392900-138DW24A (A4E1572-04)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	1.39	---	0.200	ug/L	1	05/29/24 13:23	EPA 200.8	
22392900-139DW24A (A4E1572-05)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	2.79	---	0.200	ug/L	1	05/29/24 13:25	EPA 200.8	
22392900-145DW24A (A4E1572-06)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	2.33	---	0.200	ug/L	1	05/29/24 13:26	EPA 200.8	
22392900-146DW24A (A4E1572-07)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	ND	---	0.200	ug/L	1	05/29/24 13:28	EPA 200.8	
22392900-147DW24A (A4E1572-08)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	0.308	---	0.200	ug/L	1	05/29/24 13:30	EPA 200.8	
22392900-148CF24B (A4E1572-09)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	6.14	---	0.200	ug/L	1	05/29/24 13:31	EPA 200.8	

Apex Laboratories

Jason Woodcock, Project Manager

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller****Report ID:**
A4E1572 - 06 06 24 1109**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
22392900-149CF24B (A4E1572-10)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	10.9	---	0.200	ug/L	1	05/29/24 13:33	EPA 200.8	
22392900-184BF24A (A4E1572-11)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	0.574	---	0.200	ug/L	1	05/29/24 13:35	EPA 200.8	
22392900-188DW24A (A4E1572-12)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	0.207	---	0.200	ug/L	1	05/29/24 13:40	EPA 200.8	
22392900-189DW24A (A4E1572-13)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	0.347	---	0.200	ug/L	1	05/29/24 13:42	EPA 200.8	
22392900-190KF24A (A4E1572-14)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	1.68	---	0.200	ug/L	1	05/29/24 13:43	EPA 200.8	
22392900-191BF24A (A4E1572-15)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	1.32	---	0.200	ug/L	1	05/29/24 13:45	EPA 200.8	
22392900-192BF24A (A4E1572-16)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	2.52	---	0.200	ug/L	1	05/29/24 13:49	EPA 200.8	
22392900-193BF24A (A4E1572-17)				Matrix: Drinking Water				
Batch: 24F0134								
Lead	3.83	---	0.200	ug/L	1	06/06/24 00:28	EPA 200.8	DW-D,Q-42
22392900-194BF24A (A4E1572-18)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	2.18	---	0.200	ug/L	1	05/29/24 13:51	EPA 200.8	

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Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1572 - 06 06 24 1109

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
22392900-195BF24A (A4E1572-19)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	2.62	---	0.200	ug/L	1	05/29/24 13:53	EPA 200.8	
22392900-196BF24A (A4E1572-20)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	1.39	---	0.200	ug/L	1	05/29/24 13:54	EPA 200.8	
22392900-197BF24A (A4E1572-21)				Matrix: Drinking Water				
Batch: 24E0956								
Lead	1.55	---	0.200	ug/L	1	05/29/24 13:56	EPA 200.8	
22392900-198BF24A (A4E1572-22)				Matrix: Drinking Water				
Batch: 24E0967								
Lead	1.09	---	0.200	ug/L	1	05/29/24 14:06	EPA 200.8	
22392900-199BF24A (A4E1572-23)				Matrix: Drinking Water				
Batch: 24E0967								
Lead	1.04	---	0.200	ug/L	1	05/29/24 14:12	EPA 200.8	

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Portland, OR 97239Project: Hillsboro School District
Project Number: Liberty HS/23440.190
Project Manager: Dale VoellerReport ID:
A4E1572 - 06 06 24 1109

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 24E0956 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0956-BLK1)		Prepared: 05/28/24 08:24		Analyzed: 05/29/24 13:07								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0956-BS1)		Prepared: 05/28/24 08:24		Analyzed: 05/29/24 13:09								
<u>EPA 200.8</u>												
Lead	14.8	---	0.201	ug/L	1	15.0	---	99	85 - 115%	---	---	
Duplicate (24E0956-DUP1)		Prepared: 05/28/24 08:24		Analyzed: 05/29/24 13:13								
<u>QC Source Sample: 22392900-038BF24A (A4E1572-01)</u>												
<u>EPA 200.8</u>												
Lead	1.26	---	0.200	ug/L	1	---	1.26	---	---	0.3	20%	
Matrix Spike (24E0956-MS1)		Prepared: 05/28/24 08:24		Analyzed: 05/29/24 13:14								
<u>QC Source Sample: 22392900-038BF24A (A4E1572-01)</u>												
<u>EPA 200.8</u>												
Lead	15.6	---	0.201	ug/L	1	15.0	1.26	96	70 - 130%	---	---	
Matrix Spike (24E0956-MS2)		Prepared: 05/28/24 08:24		Analyzed: 05/29/24 13:58								
<u>QC Source Sample: 22392900-197BF24A (A4E1572-21)</u>												
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	1.55	95	70 - 130%	---	---	
Batch 24E0967 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E0967-BLK1)		Prepared: 05/28/24 10:21		Analyzed: 05/29/24 14:03								
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0967-BS1)		Prepared: 05/28/24 10:21		Analyzed: 05/29/24 14:05								
<u>EPA 200.8</u>												
Lead	14.4	---	0.201	ug/L	1	15.0	---	96	85 - 115%	---	---	
Duplicate (24E0967-DUP1)		Prepared: 05/28/24 10:21		Analyzed: 05/29/24 14:08								
<u>QC Source Sample: 22392900-198BF24A (A4E1572-22)</u>												

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Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller****Report ID:**
A4E1572 - 06 06 24 1109**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 24E0967 - EPA 200.8 Direct Analysis							Drinking Water					
Duplicate (24E0967-DUP1)		Prepared: 05/28/24 10:21			Analyzed: 05/29/24 14:08							
<u>QC Source Sample: 22392900-198BF24A (A4E1572-22)</u>												
<u>EPA 200.8</u>												
Lead	1.10	---	0.200	ug/L	1	---	1.09	---	---	0.05	20%	
Matrix Spike (24E0967-MS1)		Prepared: 05/28/24 10:21			Analyzed: 05/29/24 14:10							
<u>QC Source Sample: 22392900-198BF24A (A4E1572-22)</u>												
<u>EPA 200.8</u>												
Lead	15.3	---	0.201	ug/L	1	15.0	1.09	95	70 - 130%	---	---	

Apex Laboratories

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Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1572 - 06 06 24 1109

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 24F0134 - EPA 3015A						Drinking Water						
Blank (24F0134-BLK1)		Prepared: 06/05/24 10:24			Analyzed: 06/06/24 00:16							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24F0134-BS1)		Prepared: 06/05/24 10:24			Analyzed: 06/06/24 00:22							
EPA 200.8												
Lead	17.5	---	0.200	ug/L	1	16.7	---	105	85 - 115%	---	---	
Duplicate (24F0134-DUP1)		Prepared: 06/05/24 10:24			Analyzed: 06/06/24 00:33							
QC Source Sample: 22392900-193BF24A (A4E1572-17)												
EPA 200.8												
Lead	1.41	---	0.200	ug/L	1	---	3.83	---	---	93	20%	DW-D,Q-04

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4412 S Corbett Ave
Portland, OR 97239****Project: Hillsboro School District
Project Number: Liberty HS/23440.190
Project Manager: Dale Voeller****Report ID:
A4E1572 - 06 06 24 1109****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: 24E0956</u>							
A4E1572-01	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-02	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-03	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-04	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-05	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-06	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-07	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-08	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-09	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-10	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-11	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-12	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-13	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-14	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-15	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-16	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-18	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-19	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-20	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
A4E1572-21	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 08:24	10mL/10mL	10mL/10mL	1.00
<u>Batch: 24E0967</u>							
A4E1572-22	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 10:21	10mL/10mL	10mL/10mL	1.00
A4E1572-23	Drinking Water	EPA 200.8	05/18/24 00:00	05/28/24 10:21	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: 24F0134</u>							
A4E1572-17	Drinking Water	EPA 200.8	05/18/24 00:00	06/05/24 10:24	45mL/50mL	45mL/50mL	1.00

Apex Laboratories

Jason Woodcock, Project Manager

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ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
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Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1572 - 06 06 24 1109

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-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between 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.

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Jason Woodcock, Project Manager



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A4E1572 - 06 06 24 1109

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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Report ID:
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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Jason Woodcock, Project Manager

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Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1572 - 06 06 24 1109

Lead in Drinking Water Testing Program

Date Collected: May 18, 2024

PBS Project: 23440.190 / 0004

School Name: Liberty High School Round 2

Building: Main Building

Building Number: 22392900

Analysis Requested: Lead (Pb) in Drinking Water

Email Results To: voeller@pbsusa.com

Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	038	22392900-038BF24A	West womens restroom – sampled left to right (7)
2	039	22392900-039DW24A	West hallway, drinking fountain – left
3	136	22392900-136DW24A	2nd floor, north hall, drinking fountain – left
4	138	22392900-138DW24A	Upper gym drinking fountain – left
5	139	22392900-139DW24A	Upper gym drinking fountain – right
6	145	22392900-145DW24A	Room 294 / Wrestling Dance, drinking fountain
7	146	22392900-146DW24A	2nd floor, NW corner hallway, drinking fountain – left
8	147	22392900-147DW24A	2nd floor, NW corner hallway, drinking fountain – right
9	148	22392900-148CF24B	Conference room 202, sink faucet
10	149	22392900-149CF24B	Room 202B, book storage, sink faucet
11	184	22392900-184BF24A	2nd floor, SW mens restroom –left to right (4)
12	188	22392900-188DW24A	Under grandstand, drinking fountain, left
13	189	22392900-189DW24A	Under grandstand, drinking fountain, right
14	190	22392900-190KF24A	Under grandstand, concessions booth, kitchen sink
15	191	22392900-191BF24A	Under grandstand, north end, ADA restroom, bathroom faucet
16	192	22392900-192BF24A	Under grandstand, mens restroom – sampled left to right (1)
17	193	22392900-193BF24A	Under grandstand, mens restroom – sampled left to right (2)
18	194	22392900-194BF24A	Under grandstand, mens restroom – sampled left to right (3)
19	195	22392900-195BF24A	Under grandstand, mens restroom – sampled left to right (4)
20	196	22392900-196BF24A	Under grandstand, womens restroom – sampled left to right (1)
021	197	22392900-197BF24A	Under grandstand, womens restroom – sampled left to right (2)
022	198	22392900-198BF24A	Under grandstand, womens restroom – sampled left to right (3)
023	199	22392900-199BF24A	Under grandstand, womens restroom – sampled left to right (4)
024			

1 of 2

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1572 - 06 06 24 1109

Lead in Drinking Water Testing Program

A4E1572
Hillsboro School District

Date Collected: May 18, 2024

School Name: Liberty High School

Fixture Number	Sample Number	Room / Location

Relinquished By/Signature: [Signature]

Date/Time: 5/18/24

Received By/Signature: [Signature] APEX LABS

Date/Time: 5/21/24

1308



2 of 2

Apex Laboratories

[Signature]

Jason Woodcock, Project Manager

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PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1572 - 06 06 24 1109

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4 E1512
Project/Project #: Liberty High School Main Building 23440.190/2004

Delivery Info:

Date/time received: 5/21/24 @ 1308 By: EST
Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐
From USDA Regulated Origin? Yes ☐ No ☒

Cooler Inspection Date/time inspected: 5/21/24 @ 1336 By: EST

Chain of Custody included? Yes ☒ No ☐

Signed/dated by client? Yes ☒ No ☐

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

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	17.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	N						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	NA						
Condition (In/Out):	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: 5/21/24 945 By: JS

All samples intact? Yes ☒ No ☐ Comments:

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

COC/container discrepancies form initiated? Yes ☐ No ☒

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

Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ pH ID: A23112

Comments:

Labeled by: JS

Witness: AJM

Cooler Inspected by: JS

Form Y-003 R-02



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Friday, June 7, 2024

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A4E1725 - Hillsboro School District - Liberty HS/23440.190

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 A4E1725, which was received by the laboratory on 5/29/2024 at 12:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: jwoodcock@apex-labs.com, or by phone at 503-718-2323.

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

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 18.6 degC

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

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



Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1725 - 06 07 24 1457

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-153BF24B	A4E1725-01	Drinking Water	05/25/24 00:00	05/29/24 12:00
22392900-154BF24C	A4E1725-02	Drinking Water	05/25/24 00:00	05/29/24 12:00

Apex Laboratories

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.190**Project Manager: **Dale Voeller****Report ID:****A4E1725 - 06 07 24 1457****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
22392900-153BF24B (A4E1725-01)				Matrix: Drinking Water				
Batch: 24E1125								
Lead	7.04	---	0.200	ug/L	1	06/06/24 13:45	EPA 200.8	
22392900-154BF24C (A4E1725-02)				Matrix: Drinking Water				
Batch: 24E1125								
Lead	9.02	---	0.200	ug/L	1	06/06/24 13:54	EPA 200.8	

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1725 - 06 07 24 1457

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 24E1125 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24E1125-BLK1)		Prepared: 05/31/24 07:29			Analyzed: 06/06/24 13:41							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E1125-BS1)		Prepared: 05/31/24 07:29			Analyzed: 06/06/24 13:43							
EPA 200.8												
Lead	16.8	---	0.201	ug/L	1	15.0	---	112	85 - 115%	---	---	
Duplicate (24E1125-DUP1)		Prepared: 05/31/24 07:29			Analyzed: 06/06/24 13:50							
QC Source Sample: 22392900-153BF24B (A4E1725-01)												
EPA 200.8												
Lead	7.25	---	0.200	ug/L	1	---	7.04	---	---	3	20%	
Matrix Spike (24E1125-MS1)		Prepared: 05/31/24 07:29			Analyzed: 06/06/24 13:52							
QC Source Sample: 22392900-153BF24B (A4E1725-01)												
EPA 200.8												
Lead	23.0	---	0.201	ug/L	1	15.0	7.04	106	70 - 130%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

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

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1725 - 06 07 24 1457

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 24E1125</u>							
A4E1725-01	Drinking Water	EPA 200.8	05/25/24 00:00	05/31/24 07:29	10mL/10mL	10mL/10mL	1.00
A4E1725-02	Drinking Water	EPA 200.8	05/25/24 00:00	05/31/24 07:29	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Jason Woodcock, Project Manager

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1725 - 06 07 24 1457

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 "J. Woodcock".

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:

A4E1725 - 06 07 24 1457

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1725 - 06 07 24 1457

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentration of both Benzo(b)fluoranthene and Benzo(j) fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b+j)fluoranthene(s).

Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

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

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.190**
Project Manager: **Dale Voeller**

Report ID:
A4E1725 - 06 07 24 1457

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
--------	----------	--------	---------	--------	---------------

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.190**

Project Manager: **Dale Voeller**

Report ID:

A4E1725 - 06 07 24 1457

A4E1725

Lead in Drinking Water Testing Program

Date Collected: May 25, 2024

PBS Project: 23440.190 / 0004

School Name: Liberty High School Round 3

Building: Main Building

Building Number: 22392900

Analysis Requested: Lead (Pb) in Drinking Water

Email Results To: voeller@pbsusa.com

Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	153	22392900-153BF24B	2nd floor, south mens restroom – sampled left to right (1)
2	154	22392900-154BF24C	2nd floor, south mens restroom – sampled left to right (2)
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Relinquished By/Signature: Dale Voeller

Date/Time: 5/28/24 @ 1:27 PM

Received By/Signature: GL [Signature] APEX LABS

Date/Time: 5/29/24 1200

1 of 1

Apex Laboratories

[Signature]

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.190

Project Manager: Dale Voeller

Report ID:

A4E1725 - 06 07 24 1457

APEX LABS COOLER RECEIPT FORM

Client: PBS Eng + Env Element WO#: A4E1725
Project/Project #: Liberty High School Round 3 Main Building 23440.190/6004

Delivery Info:

Date/time received: 5/29/24 @ 1200 By: EST
Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐

From USDA Regulated Origin? Yes ☐ No ☒

Cooler Inspection Date/time inspected: 5/29/24 @ 1228 By: EST

Chain of Custody included? Yes ☒ No ☐

Signed/dated by client? Yes ☒ No ☐

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

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>18.6</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>NA</u>						
Condition (In/Out):	<u>OUT</u>						

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

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

Out of temperature samples form initiated? Yes ☐ No ☒

Sample Inspection: Date/time inspected: 5/30/24 @ 1121 By: KAB

All samples intact? Yes ☒ No ☐ Comments:

Bottle labels/COCs agree? Yes ☐ No ☒ Comments: 223929000-154BF24C ends

in B, not C

COC/container discrepancies form initiated? Yes ☐ No ☒

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

Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ pH ID: A231172

Comments:

Labeled by: KAB

Witness: JW

Cooler Inspected by: KAB

Form Y-003 R-02

Apex Laboratories

Jason Woodcock, Project Manager

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



Report Number: 24-005816/D001.R000
Report Date: 05/30/2024
ORELAP#: OR100028
Purchase Order: 23440.190 / 0004
Project Name: Liberty High School
Project No:

Cover Letter

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

Dear Dale Voeller,

Enclosed please find Columbia Laboratories analytical report for samples received as order number 24-005816 on 05/28/2024 at 11:35. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

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

Sincerely,

Derrick Tanner
General Manager



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



Report Number: 24-005816/D001.R000
Report Date: 05/30/2024
ORELAP#: OR100028
Purchase Order: 23440.190 / 0004
Project Name: Liberty High School
Project No:

Sample Results

Sample: 22392900-074KF24B	Collected: 5/25/24 08:20	Temp: 20.1 °C	Matrix:
Lab ID: 24-005816-0001	Received: 5/28/24 11:35	Evidence of Cooling: Y	Drinking Water

Method: EPA 200.8 in mg/l

Analyte	Result	Limit	Units	LOQ	Dil.	Batch	Start/Extract	Analyzed	Notes
Lead [±]	15.1	15.000	µg/l	5.0	10.00	2404137		05/30/24 12:39	

Sample Results

Sample: 22392900-074KF24C	Collected: 5/25/24 08:30	Temp: 20.1 °C	Matrix:
Lab ID: 24-005816-0002	Received: 5/28/24 11:35	Evidence of Cooling: Y	Drinking Water

Method: EPA 200.8 in mg/l

Analyte	Result	Limit	Units	LOQ	Dil.	Batch	Start/Extract	Analyzed	Notes
Lead [±]	5.20	15.000	µg/l	0.2	1.00	2404133		05/30/24 10:34	

Units of Measure

µg/l = micrograms per liter

Abbreviations

LOQ Limit of quantification

[±] = TNI accredited analyte.



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



Report Number: 24-005816/D001.R000
Report Date: 05/30/2024
ORELAP#: OR100028
Purchase Order: 23440.190 / 0004
Project Name: Liberty High School
Project No:



Chain of Custody
ISO17025 ID: AT1508

PBS-Engineering-&-
Environmental-
1716660877

						Testing	Bottles
Company Details Company: <u>PBS Engineering & Environmental</u> Contact: <u>Dale Voeller</u> Street Address: <u>4412 S Corbett Ave</u> City, State, Zip: <u>Portland, OR 97267</u> Email: <u>dale.voeller@pbsusa.com</u> Contact Phone: <u>503 515-4726</u> Company Phone: <u>503 515-4726</u> Billing Information Billing Email: <u>AccountsPayable@pbsusa.com</u>			Project Details Compliance: <u>Compliance</u> Turnaround Time: <u>2 Business Days Surcharges Apply</u> Sample Relinquishment Options: <u>Drop Off at Laboratory</u> Project Name / ID: <u>Lenox Elementary School</u> PONumber: <u>23440.190 / 0002</u> Sample(s) Collected By: <u>Dale Voeller</u> Receipt Information Pre-Log Storage: R99 Sample Condition: Satisfactory			E2008Pb - Lead in DW - Schools/Childcare	250ml Poly HNC8
#	Material	Sample Name Field ID	Collection Date	Collection Time - Military Time	Additional Test Requests and Sample Comments		
1	Drinking Water	22392900-074KF24B	05/25/2024	08:20	Kitchen, large pot - filler faucet - 30 second - ush		
2	Drinking Water	22392900-074KF24C	05/25/2024	08:30	Kitchen, large pot - filler faucet - 60 second - ush	✓	NA

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Dale Voeller, CHMM, CSP</i>	<i>05/25/2024</i>	<i>11:14</i>	<i>nm</i>	<i>05/28/2024</i>	<i>11:35</i>	<i>20.1</i>	<i>Yes</i>

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

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

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

Page 1 of 1
www.columbialaboratories.com



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



Report Number: 24-005816/D001.R000
Report Date: 05/30/2024
ORELAP#: OR100028
Purchase Order: 23440.190 / 0004
Project Name: Liberty High School
Project No:

Mark Leed

From: Dale Voeller <Voeller@pbsusa.com>
Sent: Tuesday, May 28, 2024 12:14 PM
To: Environmental CFL
Subject: RE: Samples Received - Columbia Laboratories 24-005816
Attachments: 24-005816-0001_22392900-074KF24B.pdf

[You don't often get email from voeller@pbsusa.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please make the following corrections:

The Project Name / ID should be Liberty High School, NOT Lenox Elementary School The PO number should be 23440.190 / 0004, NOT 23440.190 / 0002

Thanks!

Dale Voeller, CHMM, CSP | Sr. Project Manager | PBS Portland | 503.248.1939 (main) | 503.515.4726 (mobile)

-----Original Message-----

From: customerservice.cfl@tentamus.com <customerservice.cfl@tentamus.com>
Sent: Tuesday, May 28, 2024 12:10 PM
To: Dale Voeller <Voeller@pbsusa.com>
Subject: Samples Received - Columbia Laboratories 24-005816

Hello PBS Engineering,

Please review the sample submission information below and let us know if any corrections are required.

For clients who have not established terms, we kindly request payment in full from clients before releasing lab results. Invoices are emailed within 1-3 business days of sample receipt.

Thank you,

Columbia Laboratories

Customer Name: PBS Engineering
Date Received: May/28/2024
Report Due Date: May/30/2024
Job Number: 24-005816
Number of samples: 2

0001-00: Drinking Water, 22392900-074KF24B
Lead in DW - Schools/Childcare



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



Report Number: 24-005816/D001.R000
Report Date: 05/30/2024
ORELAP#: OR100028
Purchase Order: 23440.190 / 0004
Project Name: Liberty High School
Project No:

Case Narrative

No Case Narrative notes to report.



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Friday, June 14, 2024

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A4F1099 - Hillsboro School District - Liberty HS/23440.191

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 A4F1099, which was received by the laboratory on 6/7/2024 at 12:45:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: jwoodcock@apex-labs.com, or by phone at 503-718-2323.

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

Cooler Receipt Information		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	22.0	degC

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

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



Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.191

Project Manager: Dale Voeller

Report ID:

A4F1099 - 06 14 24 1031

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22392900-074KF24D	A4F1099-01	Drinking Water	06/07/24 00:00	06/07/24 12:45
22392900-074KF24E	A4F1099-02	Drinking Water	06/07/24 00:00	06/07/24 12:45

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Liberty HS/23440.191**Project Manager: **Dale Voeller****Report ID:****A4F1099 - 06 14 24 1031****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
22392900-074KF24D (A4F1099-01)				Matrix: Drinking Water				
Batch: 24F0458								
Lead	ND	---	0.200	ug/L	1	06/13/24 15:15	EPA 200.8	
22392900-074KF24E (A4F1099-02)				Matrix: Drinking Water				
Batch: 24F0458								
Lead	ND	---	0.200	ug/L	1	06/13/24 15:16	EPA 200.8	

Apex Laboratories

Jason Woodcock, Project Manager

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Portland, OR 97239

Project: **Hillsboro School District**
Project Number: **Liberty HS/23440.191**
Project Manager: **Dale Voeller**

Report ID:
A4F1099 - 06 14 24 1031

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 24F0458 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24F0458-BLK1)		Prepared: 06/13/24 09:29			Analyzed: 06/13/24 13:58							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24F0458-BS1)		Prepared: 06/13/24 09:29			Analyzed: 06/13/24 13:59							
EPA 200.8												
Lead	13.4	---	0.201	ug/L	1	15.0	---	89	85 - 115%	---	---	

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

Apex Laboratories

Jason Woodcock, Project Manager

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Project Number: **Liberty HS/23440.191**

Project Manager: **Dale Voeller**

Report ID:

A4F1099 - 06 14 24 1031

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 24F0458</u>							
A4F1099-01	Drinking Water	EPA 200.8	06/07/24 00:00	06/13/24 09:29	10mL/10mL	10mL/10mL	1.00
A4F1099-02	Drinking Water	EPA 200.8	06/07/24 00:00	06/13/24 09:29	10mL/10mL	10mL/10mL	1.00

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Project Number: Liberty HS/23440.191

Project Manager: Dale Voeller

Report ID:

A4F1099 - 06 14 24 1031

QUALIFIER DEFINITIONS

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

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

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Report ID:
A4F1099 - 06 14 24 1031

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

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

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

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Project Number: **Liberty HS/23440.191**

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A4F1099 - 06 14 24 1031

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Benzofluoranthene Isomer Reporting:

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

Apex Laboratories

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Project Number: **Liberty HS/23440.191**
Project Manager: **Dale Voeller**

Report ID:
A4F1099 - 06 14 24 1031

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
--------	----------	--------	---------	--------	---------------

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

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Project: **Hillsboro School District**

Project Number: **Liberty HS/23440.191**

Project Manager: **Dale Voeller**

Report ID:

A4F1099 - 06 14 24 1031

Lead in Drinking Water Testing Program

Date Collected: June 7, 2024

PBS Project: 23440.190 / 0004

School Name: Liberty High School Round 4

Building: Main Building

Building Number: 22392900

Analysis Requested: Lead (Pb) in Drinking Water

Email Results To: voeller@pbsusa.com

Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	074	22392900-074KF24D	Kitchen, large pot filler faucet – first draw (after fixture replacement)
2	074	22392900-074KF24E	Kitchen, large pot filler faucet – flush (after fixture replacement)
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Relinquished By/Signature [Signature]

Date/Time: 6/7/24 @ 8:14 AM

Received By/Signature: [Signature] **APEX LABS**

Date/Time: 6/7/24 12:45

1 of 1

Apex Laboratories

[Signature]

Jason Woodcock, Project Manager

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Portland, OR 97239

Project: Hillsboro School District

Project Number: Liberty HS/23440.191

Project Manager: Dale Voeller

Report ID:

A4F1099 - 06 14 24 1031

APEX LABS COOLER RECEIPT FORM

Client: PBS Eng + Env Element WO#: A4 F1099
Project/Project #: Liberty High School Round 4 23440.190/0004
22392900

Delivery Info:

Date/time received: 6/7/24 @ 1245 By: ESTDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒Cooler Inspection Date/time inspected: 6/7/24 @ 1335 By: ESTChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☐ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>22.0</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>NA</u>						
Condition (In/Out):	<u>OUT</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking waterGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 6/7/24 @ 940 By: JSAll samples intact? Yes ☒ No ☐ Comments: Bottle labels/COCs agree? Yes ☒ No ☐ Comments: COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒Comments: Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ pH ID: A23I172Comments:

Labeled by:

JS

Witness:

h

Cooler Inspected by:

no cooler

Form Y-003 R-02

Apex Laboratories

Jason Woodcock, Project Manager

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