



February 3, 2025

Nicole Bassen, Business Manager
Riverdale School District
11733 S Breyman Avenue
Portland, Oregon 97219

Via email: nbassen@riverdale.k12.or.us

Regarding: Lead in Drinking Water Sampling
Riverdale High School
9727 SW Terwilliger Blvd
Portland, OR 97219
PBS Project 24013163

Dear Ms. Bassen:

On January 11, 2025, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at Riverdale High School located at 9727 SW Terwilliger Blvd in Portland, Oregon. The testing was requested by Riverdale School District to meet requirements from the Oregon Department of Education (ODE) and Oregon Health Authority (OHA) to conduct water testing for lead in school drinking water systems.

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

The samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis.

Initial draw samples were collected from 49 fixtures and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis using EPA Method 200.8 ICPMS. Concentrations of lead in samples ranged from none detected (ND) to 27.8 ppb. Laboratory analysis indicates that nine of the drinking water samples contained lead at concentrations above the EPA action level of 15 ppb. All others were below 15 ppb. See the table below for sample locations.

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
21880200-001WB25A	Main Building; Lower Level, Gym Lobby	Bottle Filler	Initial	ND
21880200-002DW25A	Main Building; Lower Level, Gym Lobby	Drinking Fountain	Initial	ND

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
21880200-003BF25A	Main Building; Lower Level, Gym Lobby, Men's Restroom, South Faucet	Bathroom Fixture	Initial	2.36
21880200-004BF25A	Main Building; Lower Level, Gym Lobby, Men's Restroom, Middle Faucet	Bathroom Fixture	Initial	2.50
21880200-005BF25A	Main Building; Lower Level, Gym Lobby, Men's Restroom, North Faucet	Bathroom Fixture	Initial	2.44
21880200-006BF25A	Main Building; Lower Level, Gym Lobby, Women's Restroom, North Faucet	Bathroom Fixture	Initial	2.25
21880200-007BF25A	Main Building; Lower Level, Gym Lobby, Women's Restroom, Middle Faucet	Bathroom Fixture	Initial	2.26
21880200-008BF25A	Main Building; Lower Level, Gym Lobby, Women's Restroom, South Faucet	Bathroom Fixture	Initial	3.51
21880200-009BF25A	Main Building; Lower Level, Men's Locker Room Office Restroom	Bathroom Fixture	Initial	26.8
21880200-010BF25A	Main Building; Lower Level, Men's Locker Room, East Faucet	Bathroom Fixture	Initial	17.1
21880200-011BF25A	Main Building; Lower Level, Men's Locker Room, West Faucet	Bathroom Fixture	Initial	19.6
21880200-012DW25A	Main Building; Lower Level, Lobby Outside Weight Room	Drinking Fountain	Initial	0.223
21880200-013IM25A	Main Building; Lower Level, Weight Room	Ice Maker	Initial	ND
21880200-014BF25A	Main Building; Lower Level, Women's Locker Room Office Restroom	Bathroom Fixture	Initial	27.8
21880200-015BF25A	Main Building; Lower Level, Women's Locker Room, East Faucet	Bathroom Fixture	Initial	17.5
21880200-016BF25A	Main Building; Lower Level, Women's Locker Room, West Faucet	Bathroom Fixture	Initial	10.1
21880200-018CF25A	Main Building; Lower Level, Art Room 102, Northeast Wall, North Faucet	Classroom Fixture	Initial	1.84
21880200-019CF25A	Main Building; Lower Level, Art Room 102, Northeast Wall, South Faucet	Classroom Fixture	Initial	1.18
21880200-020CF25A	Main Building; Lower Level, Art Room 102, Southeast Wall, East Faucet	Classroom Fixture	Initial	1.35
21880200-021CF25A	Main Building; Lower Level, Art Room 102, Southeast Wall, West Faucet	Classroom Fixture	Initial	1.38
21880200-022SF25A	Main Building; Lower Level, Staff Workroom	Staff Fixture	Initial	1.83
21880200-023DW25A	Main Building; Lower Level, West Corridor, North Fountain	Drinking Fountain	Initial	ND
21880200-024DW25A	Main Building; Lower Level, West Corridor, South Fountain	Drinking Fountain	Initial	ND

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
21880200-025BF25A	Main Building; Lower Level, West Corridor, Men's Restroom, North Faucet	Bathroom Fixture	Initial	23.9
21880200-026BF25A	Main Building; Lower Level, West Corridor, Men's Restroom, Middle Faucet	Bathroom Fixture	Initial	6.26
21880200-027BF25A	Main Building; Lower Level, West Corridor, Men's Restroom, South Faucet	Bathroom Fixture	Initial	14.6
21880200-028BF25A	Main Building; Lower Level, West Corridor, Women's Restroom, South Faucet	Bathroom Fixture	Initial	5.34
21880200-029BF25A	Main Building; Lower Level, West Corridor, Women's Restroom, Middle Faucet	Bathroom Fixture	Initial	11.3
21880200-030BF25A	Main Building; Lower Level, West Corridor, Women's Restroom, North Faucet	Bathroom Fixture	Initial	15.0
21880200-031SF25A	Main Building; Upper Level, Break Room 18	Staff Fixture	Initial	0.960
21880200-032KF25A	Main Building; Upper Level, Kitchen, North Wall, Sprayer	Kitchen Fixture	Initial	3.28
21880200-033KF25A	Main Building; Upper Level, Kitchen, North Wall, West Faucet	Kitchen Fixture	Initial	2.43
21880200-034KF25A	Main Building; Upper Level, Kitchen, North Wall, East Faucet	Kitchen Fixture	Initial	3.52
21880200-035KF25A	Main Building; Upper Level, Kitchen, East Wall, Faucet	Kitchen Fixture	Initial	6.00
21880200-036KF25A	Main Building; Upper Level, Kitchen, West Wall, Sprayer	Kitchen Fixture	Initial	3.60
21880200-037KF25A	Main Building; Upper Level, Kitchen, West Wall, Faucet	Kitchen Fixture	Initial	0.856
21880200-038IM25A	Main Building; Upper Level, Kitchen, Ice Maker	Ice Maker	Initial	ND
21880200-039BF25A	Main Building; Upper Level, Break Room 18 Restroom	Bathroom Fixture	Initial	11.7
21880200-040WB25A	Main Building; Upper Level, West Corridor	Bottle Filler	Initial	0.370
21880200-041DW25A	Main Building; Upper Level, West Corridor	Drinking Fountain	Initial	ND
21880200-042BF25A	Main Building; Upper Level, West Corridor, Men's Restroom, North Faucet	Bathroom Fixture	Initial	19.3
21880200-043BF25A	Main Building; Upper Level, West Corridor, Men's Restroom, Middle Faucet	Bathroom Fixture	Initial	5.77
21880200-044BF25A	Main Building; Upper Level, West Corridor, Men's Restroom, South Faucet	Bathroom Fixture	Initial	14.0
21880200-045BF25A	Main Building; Upper Level, West Corridor, Women's Restroom, South Faucet	Bathroom Fixture	Initial	15.4
21880200-046BF25A	Main Building; Upper Level, West Corridor, Women's Restroom, Middle Faucet	Bathroom Fixture	Initial	6.04

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
21880200-047BF25A	Main Building; Upper Level, West Corridor, Women's Restroom, North Faucet	Bathroom Fixture	Initial	14.3
21880200-048NS25A	Main Building; Upper Level, Nurses Office	Nurses Station	Initial	10.5
21880200-049DW25A	Main Building; Upper Level, East Corridor	Drinking Fountain	Initial	0.211
21880200-050KF25A	Main Building; Upper Level, Kitchen, Island Handwashing Sink	Kitchen Fixture	Initial	1.07

ND = no lead detected

ppb = parts per billion

Results above the action level of 15 ppb are highlighted yellow

Please refer to the attached 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.

The nine fixtures that were analyzed to be above the action level of 15 ppb should be taken out of commission immediately. Once remediation is complete, additional testing must be performed to demonstrate that lead concentrations are below 15 ppb prior to returning the fixtures to service. Additionally, one fixture was not operational at the time of PBS' sampling. This fixture was documented and assigned an identification number in accordance with ODE's guidelines. If plans exist to utilize this fixture in the future, it will need to be sampled before being put back into service. If it is to remain non-operational, no additional action is required at this time. See below for more information on this fixture.

- **21880200-017DW** - Main Building; Lower-Level, East Corridor, Drinking Fountain

Science classroom fixtures used by students between 6th and 12th grade are exempt from sampling as per ODE guidelines. 34 such fixtures were noted in the lower level of the school in science classrooms 100 and 101. These fixtures were not sampled or assigned identification numbers. 17 of these fixtures were in science classroom 100, the remaining 17 were in science classroom 101. While they do not need to be sampled, these fixtures must have signs present designating them as non-drinking water sources.

REIMBURSEMENT

The district is eligible for reimbursement from the State of Oregon for the cost of laboratory analytical testing and shipping, but not consultant fees. This is done by completing the ODE's reimbursement template spreadsheet for each facility and submitting the information to ODE. PBS is available to assist with filing for reimbursement upon request.

ONGOING TESTING

According to OAR 333-061-0400, school districts are required to complete ongoing testing at least once every six years, starting from July 1, 2020. Taps are exempt from ongoing testing if the tap was installed after January 4, 2014, and meets the lead-free standard of no more than 0.25% lead by weight and the piping feeding the tap is a material other than copper or was installed after January 4, 2014; the solder and flux meets the leadfree standard of no more than 0.2% lead; and was tested during initial testing and results were less than 1 ppb lead.

Please feel free to contact me at 503.349.6861 or sean.grabiner@pbsusa.com with any questions or comments

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean Grabiner', with a stylized flourish at the end.

Sean Grabiner, CSP
Project Manager
PBS Engineering and Environmental Inc.

Attachments: Laboratory Results
 Chain-of-Custody Form

The information contained in this document is proprietary and shall not be duplicated, used, or disclosed in whole or in part to other parties without the permission of PBS.



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Tuesday, January 28, 2025

Sean Grabiner

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A5A1146 - Riverdale School District - Riverdale High School/24013163

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 A5A1146, which was received by the laboratory on 1/14/2025 at 10:22:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: 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 16.1 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

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

Jason Woodcock, Project Manager

**ANALYTICAL REPORT****AMENDED 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: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21880200-001WB25A	A5A1146-01	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-002DW25A	A5A1146-02	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-003BF25A	A5A1146-03	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-004BF25A	A5A1146-04	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-005BF25A	A5A1146-05	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-006BF25A	A5A1146-06	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-007BF25A	A5A1146-07	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-008BF25A	A5A1146-08	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-009BF25A	A5A1146-09	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-010BF25A	A5A1146-10	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-011BF25A	A5A1146-11	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-012DW25A	A5A1146-12	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-013IM25A	A5A1146-13	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-014BF25A	A5A1146-14	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-015BF25A	A5A1146-15	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-016BF25A	A5A1146-16	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-018CF25A	A5A1146-17	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-019CF25A	A5A1146-18	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-020CF25A	A5A1146-19	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-021CF25A	A5A1146-20	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-022SF25A	A5A1146-21	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-023DW25A	A5A1146-22	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-024DW25A	A5A1146-23	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-025BF25A	A5A1146-24	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-026BF25A	A5A1146-25	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-027BF25A	A5A1146-26	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-028BF25A	A5A1146-27	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-029BF25A	A5A1146-28	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-030BF25A	A5A1146-29	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-031SF25A	A5A1146-30	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-032KF25A	A5A1146-31	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-033KF25A	A5A1146-32	Drinking Water	01/11/25 00:00	01/14/25 10:22

Apex Laboratories

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Jason Woodcock, Project Manager

**ANALYTICAL REPORT****AMENDED 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: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21880200-034KF25A	A5A1146-33	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-035KF25A	A5A1146-34	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-036KF25A	A5A1146-35	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-037KF25A	A5A1146-36	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-038IM25A	A5A1146-37	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-039BF25A	A5A1146-38	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-040WB25A	A5A1146-39	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-041DW25A	A5A1146-40	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-042BF25A	A5A1146-41	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-043BF25A	A5A1146-42	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-044BF25A	A5A1146-43	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-045BF25A	A5A1146-44	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-046BF25A	A5A1146-45	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-047BF25A	A5A1146-46	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-048NS25A	A5A1146-47	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-049DW25A	A5A1146-48	Drinking Water	01/11/25 00:00	01/14/25 10:22
21880200-050KF25A	A5A1146-49	Drinking Water	01/11/25 00:00	01/14/25 10:22

Apex Laboratories

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Jason Woodcock, Project Manager



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AMENDED REPORT

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Riverdale School District

Project Number: Riverdale High School/2401

Project Manager: Sean Grabiner

Report ID:

A5A1146 - 01 28 25 1534

ANALYTICAL CASE NARRATIVE

Work Order: **A5A1146**

Apex Laboratories

Amended Report Revision 1:

Change to Sample Identification (ID)-

This report supersedes all previous reports.

The suffixes for all of the client sample IDs initially reported as 24A have been changed to read 25A.

Jason Woodcock
Project Manager
1/28/25

Apex Laboratories

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Jason Woodcock, Project Manager



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Portland, OR 97239

Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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
21880200-001WB25A (A5A1146-01) Matrix: Drinking Water								
Batch: 25A0487								
Lead	ND	---	0.200	ug/L	1	01/17/25 14:58	EPA 200.8	
21880200-002DW25A (A5A1146-02) Matrix: Drinking Water								
Batch: 25A0487								
Lead	ND	---	0.200	ug/L	1	01/17/25 15:00	EPA 200.8	
21880200-003BF25A (A5A1146-03) Matrix: Drinking Water								
Batch: 25A0487								
Lead	2.36	---	0.200	ug/L	1	01/17/25 15:02	EPA 200.8	
21880200-004BF25A (A5A1146-04) Matrix: Drinking Water								
Batch: 25A0487								
Lead	2.50	---	0.200	ug/L	1	01/17/25 15:04	EPA 200.8	
21880200-005BF25A (A5A1146-05) Matrix: Drinking Water								
Batch: 25A0487								
Lead	2.44	---	0.200	ug/L	1	01/17/25 15:11	EPA 200.8	
21880200-006BF25A (A5A1146-06) Matrix: Drinking Water								
Batch: 25A0487								
Lead	2.25	---	0.200	ug/L	1	01/17/25 15:13	EPA 200.8	
21880200-007BF25A (A5A1146-07) Matrix: Drinking Water								
Batch: 25A0487								
Lead	2.26	---	0.200	ug/L	1	01/17/25 15:15	EPA 200.8	
21880200-008BF25A (A5A1146-08) Matrix: Drinking Water								
Batch: 25A0487								
Lead	3.51	---	0.200	ug/L	1	01/17/25 15:17	EPA 200.8	
21880200-009BF25A (A5A1146-09) Matrix: Drinking Water								
Batch: 25A0500								
Lead	26.8	---	0.200	ug/L	1	01/17/25 16:05	EPA 200.8	

Apex Laboratories

Jason Woodcock, Project Manager

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4412 S Corbett Ave

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Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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
21880200-010BF25A (A5A1146-10) Matrix: Drinking Water								
Batch: 25A0500								
Lead	17.1	---	0.200	ug/L	1	01/17/25 16:07	EPA 200.8	
21880200-011BF25A (A5A1146-11) Matrix: Drinking Water								
Batch: 25A0500								
Lead	19.6	---	0.200	ug/L	1	01/17/25 16:09	EPA 200.8	
21880200-012DW25A (A5A1146-12) Matrix: Drinking Water								
Batch: 25A0500								
Lead	0.223	---	0.200	ug/L	1	01/17/25 16:11	EPA 200.8	
21880200-013IM25A (A5A1146-13) Matrix: Drinking Water								
Batch: 25A0500								
Lead	ND	---	0.200	ug/L	1	01/17/25 16:13	EPA 200.8	
21880200-014BF25A (A5A1146-14) Matrix: Drinking Water								
Batch: 25A0500								
Lead	27.8	---	0.200	ug/L	1	01/17/25 16:15	EPA 200.8	
21880200-015BF25A (A5A1146-15) Matrix: Drinking Water								
Batch: 25A0500								
Lead	17.5	---	0.200	ug/L	1	01/17/25 16:16	EPA 200.8	
21880200-016BF25A (A5A1146-16) Matrix: Drinking Water								
Batch: 25A0500								
Lead	10.1	---	0.200	ug/L	1	01/17/25 16:18	EPA 200.8	
21880200-018CF25A (A5A1146-17) Matrix: Drinking Water								
Batch: 25A0537								
Lead	1.84	---	0.200	ug/L	1	01/16/25 16:41	EPA 200.8	
21880200-019CF25A (A5A1146-18) Matrix: Drinking Water								
Batch: 25A0537								
Lead	1.18	---	0.200	ug/L	1	01/16/25 16:48	EPA 200.8	

Apex Laboratories

Jason Woodcock, Project Manager

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AMENDED 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: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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
21880200-020CF25A (A5A1146-19)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	1.35	---	0.200	ug/L	1	01/16/25 16:50	EPA 200.8	
21880200-021CF25A (A5A1146-20)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	1.38	---	0.200	ug/L	1	01/16/25 16:52	EPA 200.8	
21880200-022SF25A (A5A1146-21)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	1.83	---	0.200	ug/L	1	01/16/25 16:54	EPA 200.8	
21880200-023DW25A (A5A1146-22)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	ND	---	0.200	ug/L	1	01/16/25 16:56	EPA 200.8	
21880200-024DW25A (A5A1146-23)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	ND	---	0.200	ug/L	1	01/16/25 16:58	EPA 200.8	
21880200-025BF25A (A5A1146-24)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	23.9	---	0.200	ug/L	1	01/16/25 16:59	EPA 200.8	
21880200-026BF25A (A5A1146-25)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	6.26	---	0.200	ug/L	1	01/16/25 17:01	EPA 200.8	
21880200-027BF25A (A5A1146-26)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	14.6	---	0.200	ug/L	1	01/16/25 17:03	EPA 200.8	
21880200-028BF25A (A5A1146-27)								
Matrix: Drinking Water								
Batch: 25A0537								
Lead	5.34	---	0.200	ug/L	1	01/16/25 17:05	EPA 200.8	

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ANALYTICAL REPORT

AMENDED 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: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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
21880200-029BF25A (A5A1146-28) Matrix: Drinking Water								
Batch: 25A0537								
Lead	11.3	---	0.200	ug/L	1	01/16/25 17:11	EPA 200.8	
21880200-030BF25A (A5A1146-29) Matrix: Drinking Water								
Batch: 25A0537								
Lead	15.0	---	0.200	ug/L	1	01/16/25 17:13	EPA 200.8	
21880200-031SF25A (A5A1146-30) Matrix: Drinking Water								
Batch: 25A0537								
Lead	0.960	---	0.200	ug/L	1	01/16/25 17:15	EPA 200.8	
21880200-032KF25A (A5A1146-31) Matrix: Drinking Water								
Batch: 25A0537								
Lead	3.28	---	0.200	ug/L	1	01/16/25 17:17	EPA 200.8	
21880200-033KF25A (A5A1146-32) Matrix: Drinking Water								
Batch: 25A0537								
Lead	2.43	---	0.200	ug/L	1	01/16/25 17:18	EPA 200.8	
21880200-034KF25A (A5A1146-33) Matrix: Drinking Water								
Batch: 25A0537								
Lead	3.52	---	0.200	ug/L	1	01/16/25 17:20	EPA 200.8	
21880200-035KF25A (A5A1146-34) Matrix: Drinking Water								
Batch: 25A0537								
Lead	6.00	---	0.200	ug/L	1	01/16/25 17:22	EPA 200.8	
21880200-036KF25A (A5A1146-35) Matrix: Drinking Water								
Batch: 25A0537								
Lead	3.60	---	0.200	ug/L	1	01/16/25 17:24	EPA 200.8	
21880200-037KF25A (A5A1146-36) Matrix: Drinking Water								
Batch: 25A0614								
Lead	0.856	---	0.200	ug/L	1	01/17/25 16:31	EPA 200.8	

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21880200-038IM25A (A5A1146-37) Matrix: Drinking Water								
Batch: 25A0614								
Lead	ND	---	0.200	ug/L	1	01/17/25 16:37	EPA 200.8	
21880200-039BF25A (A5A1146-38) Matrix: Drinking Water								
Batch: 25A0614								
Lead	11.7	---	0.200	ug/L	1	01/17/25 16:39	EPA 200.8	
21880200-040WB25A (A5A1146-39) Matrix: Drinking Water								
Batch: 25A0614								
Lead	0.370	---	0.200	ug/L	1	01/17/25 16:41	EPA 200.8	
21880200-041DW25A (A5A1146-40) Matrix: Drinking Water								
Batch: 25A0614								
Lead	ND	---	0.200	ug/L	1	01/17/25 16:42	EPA 200.8	
21880200-042BF25A (A5A1146-41) Matrix: Drinking Water								
Batch: 25A0614								
Lead	19.3	---	0.200	ug/L	1	01/17/25 16:44	EPA 200.8	
21880200-043BF25A (A5A1146-42) Matrix: Drinking Water								
Batch: 25A0614								
Lead	5.77	---	0.200	ug/L	1	01/17/25 16:52	EPA 200.8	
21880200-044BF25A (A5A1146-43) Matrix: Drinking Water								
Batch: 25A0614								
Lead	14.0	---	0.200	ug/L	1	01/17/25 16:54	EPA 200.8	
21880200-045BF25A (A5A1146-44) Matrix: Drinking Water								
Batch: 25A0614								
Lead	15.4	---	0.200	ug/L	1	01/17/25 16:55	EPA 200.8	
21880200-046BF25A (A5A1146-45) Matrix: Drinking Water								
Batch: 25A0614								
Lead	6.04	---	0.200	ug/L	1	01/17/25 16:57	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
21880200-047BF25A (A5A1146-46)				Matrix: Drinking Water				
Batch: 25A0614								
Lead	14.3	---	0.200	ug/L	1	01/17/25 16:59	EPA 200.8	
21880200-048NS25A (A5A1146-47)				Matrix: Drinking Water				
Batch: 25A0614								
Lead	10.5	---	0.200	ug/L	1	01/17/25 17:01	EPA 200.8	
21880200-049DW25A (A5A1146-48)				Matrix: Drinking Water				
Batch: 25A0614								
Lead	0.211	---	0.200	ug/L	1	01/17/25 17:03	EPA 200.8	
21880200-050KF25A (A5A1146-49)				Matrix: Drinking Water				
Batch: 25A0614								
Lead	1.07	---	0.200	ug/L	1	01/17/25 17:05	EPA 200.8	

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Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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 25A0487 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (25A0487-BLK1)		Prepared: 01/15/25 11:18 Analyzed: 01/17/25 14:23										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (25A0487-BS1)		Prepared: 01/15/25 11:18 Analyzed: 01/17/25 14:25										
EPA 200.8												
Lead	15.9	---	0.201	ug/L	1	15.0	---	106	85 - 115%	---	---	
Matrix Spike (25A0487-MS2)		Prepared: 01/15/25 11:18 Analyzed: 01/17/25 15:19										
QC Source Sample: 21880200-008BF25A (A5A1146-08)												
EPA 200.8												
Lead	18.0	---	0.201	ug/L	1	15.0	3.51	97	70 - 130%	---	---	
Batch 25A0500 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (25A0500-BLK1)		Prepared: 01/15/25 13:19 Analyzed: 01/17/25 15:21										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (25A0500-BS1)		Prepared: 01/15/25 13:19 Analyzed: 01/17/25 15:22										
EPA 200.8												
Lead	14.6	---	0.201	ug/L	1	15.0	---	98	85 - 115%	---	---	
Matrix Spike (25A0500-MS2)		Prepared: 01/15/25 13:19 Analyzed: 01/17/25 16:20										
QC Source Sample: 21880200-016BF25A (A5A1146-16)												
EPA 200.8												
Lead	24.5	---	0.201	ug/L	1	15.0	10.1	96	70 - 130%	---	---	

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Portland, OR 97239

Project: Riverdale School District

Project Number: Riverdale High School/2401

Project Manager: Sean Grabiner

Report ID:

A5A1146 - 01 28 25 1534

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 25A0537 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (25A0537-BLK1)		Prepared: 01/16/25 10:54 Analyzed: 01/16/25 16:32										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (25A0537-BS1)		Prepared: 01/16/25 10:54 Analyzed: 01/16/25 16:33										
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	
Matrix Spike (25A0537-MS2)		Prepared: 01/16/25 10:54 Analyzed: 01/16/25 17:26										
QC Source Sample: 21880200-036KF25A (A5A1146-35)												
EPA 200.8												
Lead	18.0	---	0.201	ug/L	1	15.0	3.60	96	70 - 130%	---	---	

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4412 S Corbett Ave

Portland, OR 97239

Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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 25A0614 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (25A0614-BLK1)		Prepared: 01/17/25 13:11			Analyzed: 01/17/25 16:28							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (25A0614-BS1)		Prepared: 01/17/25 13:11			Analyzed: 01/17/25 16:29							
EPA 200.8												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	
Duplicate (25A0614-DUP1)		Prepared: 01/17/25 13:11			Analyzed: 01/17/25 16:33							
QC Source Sample: 21880200-037KF25A (A5A1146-36)												
EPA 200.8												
Lead	0.848	---	0.200	ug/L	1	---	0.856	---	---	0.9	20%	
Matrix Spike (25A0614-MS1)		Prepared: 01/17/25 13:11			Analyzed: 01/17/25 16:35							
QC Source Sample: 21880200-037KF25A (A5A1146-36)												
EPA 200.8												
Lead	15.7	---	0.201	ug/L	1	15.0	0.856	99	70 - 130%	---	---	

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Jason Woodcock, Project Manager

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**ANALYTICAL REPORT****AMENDED 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: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534****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: 25A0487</u>							
A5A1146-01	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-02	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-03	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-04	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-05	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-06	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-07	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
A5A1146-08	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 11:18	10mL/10mL	10mL/10mL	1.00
<u>Batch: 25A0500</u>							
A5A1146-09	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-10	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-11	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-12	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-13	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-14	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-15	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
A5A1146-16	Drinking Water	EPA 200.8	01/11/25 00:00	01/15/25 13:19	10mL/10mL	10mL/10mL	1.00
<u>Batch: 25A0537</u>							
A5A1146-17	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-18	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-19	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-20	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-21	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-22	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-23	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-24	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-25	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-26	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-27	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-28	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-29	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-30	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-31	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-32	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-33	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00

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ORELAP ID: OR100062

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4412 S Corbett Ave

Portland, OR 97239

Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534**

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
A5A1146-34	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
A5A1146-35	Drinking Water	EPA 200.8	01/11/25 00:00	01/16/25 10:54	10mL/10mL	10mL/10mL	1.00
Batch: 25A0614							
A5A1146-36	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-37	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-38	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-39	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-40	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-41	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-42	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-43	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-44	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-45	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-46	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-47	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-48	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00
A5A1146-49	Drinking Water	EPA 200.8	01/11/25 00:00	01/17/25 13:11	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

AMENDED 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: Riverdale School District

Project Number: Riverdale High School/2401

Project Manager: Sean Grabiner

Report ID:

A5A1146 - 01 28 25 1534

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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Portland, OR 97239

Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534****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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Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

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

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Benzofluoranthene Isomer Reporting:

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

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Decanted Samples:

Soils/Sediments:

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

Water Samples:

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

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses.

In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

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

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Project: **Riverdale School District**Project Number: **Riverdale High School/2401**Project Manager: **Sean Grabiner****Report ID:****A5A1146 - 01 28 25 1534****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: **Riverdale School District**

 Project Number: **Riverdale High School/2401**

 Project Manager: **Sean Grabiner**
Report ID:
A5A1146 - 01 28 25 1534

W01# A5A1146


 SCHOOL NAME: RIVERDALE HS

 PROJECT #: 24013163

 ANALYSIS REQUESTED: LEAD (Pb)

 DATE: 1/11/25

 RELINQ'D BY/SIGNATURE: SEAN GRABINER / [Signature]

 DATE/TIME: 1/13/25 10:30

 RECEIVED BY/SIGNATURE: [Signature] Justin Ekhermi

 DATE/TIME: 1/14/25 1022

 EMAIL RESULTS TO: SEAN.GRABINER@PBSUSA.COM

 TURN AROUND TIME: STANDARD

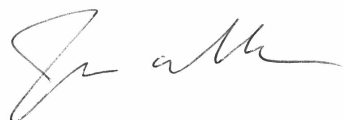
SAMPLE DATA FORM

LAB	SAMPLE #	SAMPLE TYPE	ROOM AND LOCATION
	21880200-001 WB25A	Initial	LOWER LEVEL; Gym Lobby, BOTTLE FILLER
	-002 DW25A	Initial	" " ; " " ; DRINKING FOUNTAIN
	-003 BF25A	Initial	" " ; " " ; MEN'S RESTROOM, SOUTH SINK
	-004 BF25A	Initial	" " ; " " ; " " ; MIDDLE SINK
	-005 BF25A	Initial	" " ; " " ; " " ; NORTH SINK
	-006 BF25A	Initial	" " ; " " ; WOMEN'S RESTROOM, NORTH SINK
	-007 BF25A	Initial	" " ; " " ; " " ; MIDDLE SINK
	-008 BF25A	Initial	" " ; " " ; " " ; SOUTH SINK
	-009 BF25A	Initial	" " ; " " ; MEN'S LOCKER ROOM OFFICE, ASPHALT RESTROOM, SINK
	-010 BF25A	Initial	" " ; " " ; " " ; EAST SINK
	-011 BF25A	Initial	" " ; " " ; " " ; WEST SINK
	-012 DW25A	Initial	" " ; " " ; LOBBY OUTSIDE WASHROOM, DRINKING FOUNTAIN
	-013 IM25A	Initial	" " ; " " ; WEIGHT ROOM, ICE MACHINE
	-014 BF25A	Initial	" " ; " " ; WOMEN'S LOCKER ROOM OFFICE RESTROOM, SINK
	-015 BF25A	Initial	" " ; " " ; " " ; EAST SINK
	-016 BF25A	Initial	" " ; " " ; " " ; WEST SINK
	-018 CF25A	Initial	" " ; " " ; ART ROOM 102, NORTH WALL, NORTH SINK
	-019 CF25A	Initial	" " ; " " ; " " ; NORTH WALL, SOUTH SINK
	-020 CF25A	Initial	" " ; " " ; " " ; SOUTH WALL, EAST SINK
	-021 CF25A	Initial	" " ; " " ; " " ; " " ; WEST SINK
	-022 SF25A	Initial	" " ; " " ; STAFF WORKROOM, SINK
	-023 DW25A	Initial	" " ; " " ; WEST CORRIDOR, NORTH FOUNTAIN
	-024 DW25A	Initial	" " ; " " ; " " ; SOUTH FOUNTAIN
	-025 BF25A	Initial	" " ; " " ; WEST CORRIDOR, MEN'S RESTROOM, NORTH SINK
	-026 BF25A	Initial	" " ; " " ; " " ; " " ; MIDDLE SINK
	-027 BF25A	Initial	" " ; " " ; " " ; " " ; SOUTH SINK

 PAGE 1 OF 2

 PBS ENGINEERING + ENVIRONMENTAL, 4412 SW Corbett Ave, Portland, OR 97239
 (503)-248-1939, Fax: 1 (888)-866-727-0140

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Portland, OR 97239Project: Riverdale School District

Project Number: **Riverdale High School/2401**

Project Manager: **Sean Grabiner**

Report ID:

A5A1146 - 01 28 25 1534

NO# 45A1146



SCHOOL NAME: RIVERDALE HS

PROJECT #: 24013163

ANALYSIS REQUESTED: LEAD (Pb)

DATE: 1/11/25

RELINQ'D BY/SIGNATURE: SPN GLENNER / AA

DATE/TIME: 1/13/25 10:30

RECEIVED BY/SIGNATURE: James Eskevari

DATE/TIME: 1/4/25 1022

EMAIL RESULTS TO: SEAN.GRABINER@PBSUSA.COM

TURN AROUND TIME: 6 months

SAMPLE DATA FORM

LAB	SAMPLE #	SAMPLE TYPE	ROOM AND LOCATION
Z1880200	-02B BF25A	Initial	LOWER LEVEL; WEST WARDEN, WOMAN'S RESTROOM - SOUTH SINK
	-029 BF25A	Initial	" " ; " " , MIDDLE SINK
	-030 BF25A	Initial	" " ; " " , NORTH SINK
	-031 SF25A	Initial	UPPER LEVEL; ~~SAFETY ROOM IS~~ ^{BREAK ROOM IS} , SINK
	-032 KF25A	Initial	" " ; KITCHEN, NORTH WALL, SPRAYER
	-033 KF25A	Initial	" " ; " " , HALLWAY, ~~WEST FAUCET~~
	-034 KF25A	Initial	" " ; " " , EAST WALL, ~~EAST FAUCET~~
	-035 KF25A	Initial	" " ; " " , EAST WALL, FAUCET
	-036 KF25A	Initial	" " ; " " , WEST WALL, SPRAYER
	-037 KF25A	Initial	" " ; " " , FAUCET
	-038 Im 25A	Initial	" " ; " " , ICE MACHINE
	-039 BF25A	Initial	" " ; BREAK ROOM & RESTROOM, FAUCET
	-040 WB25A	Initial	" " ; WEST CORRIDOR, BOTTLE FILLER
	-041 DW25A	Initial	" " ; DRINKING FONTAIN
	-042 BF25A	Initial	" " ; MEN'S RESTROOM, NORTH SINK
	-043 BF25A	Initial	" " ; " " , MIDDLE SINK
	-044 BF25A	Initial	" " ; " " , SOUTH SINK
	-045 BF25A	Initial	" " ; WOMAN'S RESTROOM, SOUTH SINK
	-046 BF25A	Initial	" " ; " " , MIDDLE SINK
	-047 BF25A	Initial	" " ; " " , NORTH SINK
	~~-048 BF25A~~	Initial	KITCHEN, ISLAND, HANDWASHING SINK
	-048 NS25A	Initial	" " ; NURSE'S OFFICE, SINK
	-049 DW25A	Initial	" " ; EAST CORRIDOR, DRINKING FONTAINS
	-050 KF25A	Initial	" " ; KITCHEN, ISLAND, HANDWASHING SINK
		Initial	

PAGE 2 OF 2

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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A5 A1146

Project/Project #: RIVERDALE HS / 24013163

Delivery Info:

Date/time received: 4/14/25 @ 1022 By: JPE

Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ OtherFrom USDA Regulated Origin? Yes ☐ No ☒

Cooler Inspection Date/time inspected: 4/14/25 @ 1219 By: JPE

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)	16.1						
Custody seals? (Y/ ☒)	N						
Received on ice? (Y/ ☒)	N						
Temp. blanks? (Y/ ☒)	N						
Ice type: (Gel/Real/ ☒ Other)	None						
Condition (In/ ☒ Out)	Out						

Cooler out of temp? ☒ Possible reason why: Drinking watersGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 4/14/25 @ 1412 By: KN

All samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: cond lps missing prefixes and suffixes.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:

KN

Witness:

Cooler Inspected by:

KN

Form Y-003 R-02

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