



October 8, 2024

Brett Borgeson
Portland Public School
501 N Dixon Street
Portland, Oregon

Via email: bborgeson@pps.net

Regarding: Drinking Water Sampling Report
Rigler Elementary School
5401 NE Prescott Street
Portland, OR 97218

PBS Project POR029-0418011-24010762

Mr. Borgeson:

On October 4, 2024, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling and analysis for lead at Rigler Elementary School in Portland, Oregon. The testing was requested by Portland Public Schools in order to respond to building occupant concerns.

Background and Sampling Procedure

PBS sampled all outlets designated as drinking outlets by Portland Public Schools. The sampling methodology followed the protocol described in Section 4 of the EPA document *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018* and guidelines established by Oregon Health Authority and Oregon Department of Education.

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 during an early morning after school was in session the previous day, and before the fixture had been used again in the morning. The 3Ts' sampling protocol is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified.

Results

First draw samples were collected from 12 fixtures and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis using EPA Method 200.8 ICPMS. **All sample results showed concentrations of lead well below the action level of 15 ppb.**

Table 1: Rigler Elementary School - Sample Results

Fixture Number	Location / Room No.	Fixture Type	Results (ppb)
DF-1627	Hallway by Room 10B	Drinking Fountain/Bottle Filler	0.409
DF-1631	Hallway by Cafeteria	Drinking Fountain/Bottle Filler	0.333
DF-1628	Cafeteria	Drinking Fountain/Bottle Filler	0.242
DF-5846	Kitchen	Sink	2.71
DF-1644	Hallway by Room 11A	Drinking Fountain/Bottle Filler	0.284
DF-1643	Hallway by Room 21F	Drinking Fountain/Bottle Filler	ND
DF-5848	Staff Room	Sink	0.342
DF-1733	Hallway by Room 27A	Drinking Fountain/Bottle Filler	ND
DF-1640	Hallway by Room 37	Drinking Fountain/Bottle Filler	0.508
DF-1634	Hallway by Room 31	Drinking Fountain/Bottle Filler	ND
DF-5847	Health Room	Sink	0.427
DF-1633	Sun School	Drinking Fountain/Bottle Filler	0.605

ND = no lead detected

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

Please feel free to contact me at 971.284.7762 or joel.mccarthy@pbsusa.com with any questions or comments.

Sincerely,

Joel McCarthy
Digitally signed by Joel McCarthy
Date: 2024.10.08 13:06:45 -07'00'

Joel McCarthy
Senior Industrial Hygiene Project Manager

Attachments: Laboratory Analytical Report



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, October 8, 2024

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

RE: A4J1040 - Portland Public Schools - Rigler/POR029-0418011-24010762

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 A4J1040, which was received by the laboratory on 10/4/2024 at 8:57:00AM.

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			
<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	20.3	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 97239

Project: **Portland Public Schools**

Project Number: **Rigler/POR029-0418011-240**

Project Manager: **Joel McCarthy**

Report ID:

A4J1040 - 10 08 24 1033

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DF-1627	A4J1040-01	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1631	A4J1040-02	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1628	A4J1040-03	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-5846	A4J1040-04	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1644	A4J1040-05	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1643	A4J1040-06	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-5848	A4J1040-07	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1733	A4J1040-08	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1640	A4J1040-09	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1634	A4J1040-10	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-5847	A4J1040-11	Drinking Water	10/04/24 00:00	10/04/24 08:57
DF-1633	A4J1040-12	Drinking Water	10/04/24 00:00	10/04/24 08:57

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Portland Public Schools
Project Number: Rigler/POR029-0418011-240
Project Manager: Joel McCarthy**Report ID:**
A4J1040 - 10 08 24 1033

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
DF-1627 (A4J1040-01) Matrix: Drinking Water								
Batch: 24J0190								
Lead	0.409	---	0.200	ug/L	1	10/07/24 14:54	EPA 200.8	
DF-1631 (A4J1040-02) Matrix: Drinking Water								
Batch: 24J0190								
Lead	0.333	---	0.200	ug/L	1	10/07/24 14:56	EPA 200.8	
DF-1628 (A4J1040-03) Matrix: Drinking Water								
Batch: 24J0190								
Lead	0.242	---	0.200	ug/L	1	10/07/24 14:58	EPA 200.8	
DF-5846 (A4J1040-04) Matrix: Drinking Water								
Batch: 24J0190								
Lead	2.71	---	0.200	ug/L	1	10/07/24 14:59	EPA 200.8	
DF-1644 (A4J1040-05) Matrix: Drinking Water								
Batch: 24J0190								
Lead	0.284	---	0.200	ug/L	1	10/07/24 15:01	EPA 200.8	
DF-1643 (A4J1040-06) Matrix: Drinking Water								
Batch: 24J0190								
Lead	ND	---	0.200	ug/L	1	10/07/24 15:03	EPA 200.8	
DF-5848 (A4J1040-07) Matrix: Drinking Water								
Batch: 24J0190								
Lead	0.342	---	0.200	ug/L	1	10/07/24 15:05	EPA 200.8	
DF-1733 (A4J1040-08) Matrix: Drinking Water								
Batch: 24J0190								
Lead	ND	---	0.200	ug/L	1	10/07/24 15:07	EPA 200.8	
DF-1640 (A4J1040-09) Matrix: Drinking Water								
Batch: 24J0190								
Lead	0.508	---	0.200	ug/L	1	10/07/24 15:09	EPA 200.8	

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4412 S Corbett Ave
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Project: **Portland Public Schools**
Project Number: **Rigler/POR029-0418011-240**
Project Manager: **Joel McCarthy**

Report ID:
A4J1040 - 10 08 24 1033

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
DF-1634 (A4J1040-10)				Matrix: Drinking Water				
Batch: 24J0190								
Lead	ND	---	0.200	ug/L	1	10/07/24 15:10	EPA 200.8	
DF-5847 (A4J1040-11)				Matrix: Drinking Water				
Batch: 24J0190								
Lead	0.427	---	0.200	ug/L	1	10/07/24 15:16	EPA 200.8	
DF-1633 (A4J1040-12)				Matrix: Drinking Water				
Batch: 24J0190								
Lead	0.605	---	0.200	ug/L	1	10/07/24 15:18	EPA 200.8	

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PBS Engineering and Environmental
4412 S Corbett Ave
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Project: **Portland Public Schools**
Project Number: **Rigler/POR029-0418011-240**
Project Manager: **Joel McCarthy**

Report ID:
A4J1040 - 10 08 24 1033

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 24J0190 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (24J0190-BLK1)		Prepared: 10/04/24 10:23			Analyzed: 10/07/24 14:24							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24J0190-BS1)		Prepared: 10/04/24 10:23			Analyzed: 10/07/24 14:26							
EPA 200.8												
Lead	15.2	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	
Matrix Spike (24J0190-MS2)		Prepared: 10/04/24 10:23			Analyzed: 10/07/24 15:20							
QC Source Sample: DF-1633 (A4J1040-12)												
EPA 200.8												
Lead	15.4	---	0.201	ug/L	1	15.0	0.605	99	70 - 130%	---	---	

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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 Environmental4412 S Corbett Ave
Portland, OR 97239Project: **Portland Public Schools**Project Number: **Rigler/POR029-0418011-240**Project Manager: **Joel McCarthy****Report ID:****A4J1040 - 10 08 24 1033****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: 24J0190</u>							
A4J1040-01	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-02	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-03	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-04	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-05	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-06	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-07	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-08	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-09	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-10	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-11	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00
A4J1040-12	Drinking Water	EPA 200.8	10/04/24 00:00	10/04/24 10:23	10mL/10mL	10mL/10mL	1.00

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PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Portland Public Schools

Project Number: Rigler/POR029-0418011-240

Project Manager: Joel McCarthy

Report ID:

A4J1040 - 10 08 24 1033

QUALIFIER DEFINITIONS

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

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

Apex Laboratories

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ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Portland Public Schools**

Project Number: **Rigler/POR029-0418011-241**

Project Manager: **Joel McCarthy**

Report ID:

A4J1040 - 10 08 24 1033

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

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Portland Public Schools**

Project Number: **Rigler/POR029-0418011-24**

Project Manager: **Joel McCarthy**

Report ID:

A4J1040 - 10 08 24 1033

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Benzofluoranthene Isomer Reporting:

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

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

Project: **Portland Public Schools**
Project Number: **Rigler/POR029-0418011-240**
Project Manager: **Joel McCarthy**

Report ID:
A4J1040 - 10 08 24 1033

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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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **Portland Public Schools**Project Number: **Rigler/POR029-0418011-24010762**Project Manager: **Joel McCarthy**

Report ID:

A4J1040 - 10 08 24 1033

APEX LABS COOLER RECEIPT FORM

Client: PBS Eng & Env Element WO#: A4 J1040Project/Project #: Rigler POR029-0418011-24010762

Delivery Info:

Date/time received: 10/4/14 @ 857 By: APWDelivered by: Apex ☒ Client ☒ XESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒Cooler Inspection Date/time inspected: 10/4/14 @ 857 By: APWChain 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>20.3</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>None</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: 10/4/14 @ 0912 By: APWAll 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: A23172Comments: Labeled by: APWWitness: JSCooler Inspected by: APW

Form Y-003 R-02

Apex Laboratories

Jason Woodcock, Project Manager

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