January 29, 2025

Joshua Collop
Pasco School District
1215 West Lewis Street
Pasco, WA 99301
Via email: jcollop@PSD1.org

Regarding: Drinking Water Sampling for Lead
Virgie Robinson Elementary School
125 S Wehe Ave
Pasco, WA 99301
PBS Project 25003035

Dear Mr. Collop:

PBS Engineering and Environmental (PBS) performed limited drinking water sampling at Virgie Robinson Elementary School for Pasco School District (the District). Drinking water in Washington State is regulated by the State of Washington Engrossed Second Substitute House Bill 1139. The testing process followed the protocols described in the Environmental Protection Agency (EPA) document, "*3T's for Reducing Lead in Drinking Water in Schools.*" Our scope of work was limited to sampling of newly installed fixtures.

BACKGROUND AND SAMPLING PROCEDURE

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 an identification number to the fixture and collected a first draw sample. The first draw sample consisted of the first 250 milliliters (mL) of water drawn from the 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 water sampling process was conducted by a Washington State certified lead risk assessor. The samples were delivered under chain of custody to On-Site Environmental of Redmond, Washington, for lead analysis.

FINDINGS

This sampling event included a total of three fixtures located in rooms 161, 186 and 210. The concentration of lead in the samples ranged from 1.4 to 6 parts per billion (ppb). See Table 1 below for a list of sampled fixtures.

Sample Number	Sample Location	Lead Concentration (ppb)
WA-11001-5020-001CF	Room 161, classroom faucet, center tap	1.5
WA-11001-5020-002CF	Room 186, classroom faucet, center tap	1.4
WA-11001-5020-003CF	Room 210, classroom faucet, left tap	6.0

For additional sample detail, please refer to the attached laboratory report and chain of custody form. The laboratory analytical results are reported in micrograms per liter (µg/L), a unit of measure that is equivalent to ppb.

The EPA protocol recommends that follow-up flush sampling be conducted at fixture locations where first draw sample contain lead concentrations of greater than 15 ppb. PBS does not recommend the collection of any follow-up flush samples from this site.

Please feel free to contact me at 458.210.5390 or carson.linklater@pbsusa.com with any questions or comments.

Sincerely,

Carson Linklater
Digitally signed by Carson Linklater
Date: 2025.01.31 12:36:14 -08'00'

Carson Linklater
Project Manager
PBS Engineering and Environmental LLC

Attachments: Laboratory Results
Chain-of-Custody Form
Lead Risk Assessor Certification

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 23, 2025

Carson Linklater
PBS Engineering & Environmental
400 Bradley Blvd., Suite 106
Richland, WA 99352

Re: Analytical Data for Project 25003035; PSD-Virgie Robinson Elementary
Laboratory Reference No. 2501-178

Dear Carson:

Enclosed are the analytical results and associated quality control data for samples submitted on January 17, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 23, 2025
Samples Submitted: January 17, 2025
Laboratory Reference: 2501-178
Project: 25003035; PSD-Virgie Robinson Elementary

Case Narrative

Samples were collected on January 16, 2025 and received by the laboratory on January 17, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: January 23, 2025
Samples Submitted: January 17, 2025
Laboratory Reference: 2501-178
Project: 25003035; PSD-Virgie Robinson Elementary

DRINKING WATER LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WA-11001-5020-001CF**					
Laboratory ID:	01-178-01					
Lead	**1.5**	1.0	EPA 200.8		1-22-25	
Client ID:	**WA-11001-5020-002CF**					
Laboratory ID:	01-178-02					
Lead	**1.4**	1.0	EPA 200.8		1-22-25	
Client ID:	**WA-11001-5020-003CF**					
Laboratory ID:	01-178-03					
Lead	**6.0**	1.0	EPA 200.8		1-22-25	

Date of Report: January 23, 2025
Samples Submitted: January 17, 2025
Laboratory Reference: 2501-178
Project: 25003035; PSD-Virgie Robinson Elementary

DRINKING WATER LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0122DW2					
Lead	**ND**	1.0	EPA 200.8		1-22-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-142-21										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	01-142-21										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**76.2**	**81.2**	80.0	80.0	ND	**95**	**102**	75-125	6	20	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: PBS ENGINEERING & ENVIRONMENTAL

Project Number: 25003035

Project Name: PSD - Virgie Robinson Elementary

Project Manager: CARSON LINKLATER

Sampled by: TAYVIN TRUJILLO

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☒ 5 Days (other)

Laboratory Number: 01-178

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Drinking Water EPA 200.8 (Lead & Copper)	Drinking Water EPA 13 Priority Pollutant Metals	Drinking Water EPA 24 Target Analyte Metals (TAL)	Drinking Water EPA 200.8 (TOTAL PB)	% Moisture
1	WA-11001-5020-001CF	1/16/25	0545	W	1																						
2	WA-11001-5020-002CF	"	"	"	"																						
3	WA-11001-5020-003CF	"	"	"	"																						

	Signature	Company	Date	Time
Relinquished		PBS E&E	1/16/25	1300
Received		OSE	1/17/25	1030
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

PBS ENGINEERING & ENVIRONMENTAL
400 BRADLEY BLVD. SUITE 106
RICHLAND, WA 99352

EMAIL RESUULTS TO:
- ~~KANANI.YOUNG@PBSUSA.COM~~
- CARSON.LINKLATER@PBSUSA.COM
- ~~KAITLYN.GAMBLE@PBSUSA.COM~~

TAYVIN.TRUJILLO@APEXCOS.com

BILL TO: ACCOUNTPAYABLES@PBSUSA.COM
O: 509-942-1600 / D: 509-375-7833

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Activities Program

Carson Kai Linklater

Has fulfilled the certification requirements of WAC 365-230 and has been certified to conduct lead based paint activities as a ***Risk Assessor***.

Certification #	Issuance Date	Expiration Date
8877	06/14/2023	03/30/2026