

850 Poplar Street Pittsburgh, PA 15220 phone: 412.922.4000 fax: 412.922.4043 intertek.com/building psiusa.com

January 27, 2025, revised March 31, 2025

Pine Richland School District

702 Warrendale Road Gibsonia, Pennsylvania

Attn: Mr. Jefferey Zimmerman Maintenance Supervisor jzimmerman@pinerichland.org

Re: Follow-up Potable Water Lead Screening Pine Richland School District Gibsonia, Allegheny County, Pennsylvania PSI Project No. 08165069-4

Dear Mr. Zimmerman:

In accordance with your request, Professional Service Industries, Inc. (PSI), an Intertek company, conducted a limited lead water screening of client-defined potable water sources at the Pine Richland School District facilities. PSI's sampling included thirty-five (35) samples in the following school buildings at the Pine Richland School District:

- Pine Richland Elementary (5 samples)
- Eden Hall (5 samples)
- Pine Richland Hance Elementary (5 samples)
- Pine Richland Wexford Elementary (5 samples)
- Pine Richland High School (5 samples)
- Pine Richland Athletic Fields (5 samples)
- Pine Richland Middle School (5 samples)

PSI was given authorization to conduct the lead-in-water screening by Mr. Jeffrey Zimmerman, Maintenance Supervisor for the Pine Richland School District. The sampling and analysis were conducted in accordance with the agreement between PSI and the Pine Richland School District.

<u>SCOPE</u>

Water samples were collected on December 18, 2024 from the identified potable water outlets selected by the client in the Pine Richland School District. The samples were collected from 35 potable water sources, including faucets and water fountains. A "first draw" sample is defined as the first water to come out of the tap after an 8-hour period of inactivity, but no more than 18-hours. The number of samples and the sample locations





were determined by the client. Lead was detected above the analytical detection limit of 1.0 ppb in 7 of the 35 samples collected. Of the 7 samples where lead was detected, **two** (2) had a lead concentration above the proposed PA State recommended upper limit of 5.0 ppb but below the EPA Action Level of 15.0 ppb.

Those two locations were flushed and resampled on February 6 and 28, 2025. No lead was detected above the laboratory analytical detection limit in the sample collected from the Wexford Office sink following the February 6 & 28, 2025 resampling. Lead was detected at concentrations of 3.8 ppb and 5.0 ppb in the sample collected from the kettle at Hance following the February 6 & 28, 2025 resampling. Based on the presence of lead approaching the Women for a Healthy Environment limit of 5.0 ppb, the kettle will be removed from service.

METHODOLOGY

Pine Richland staff collected the samples for the February 6 & 28, 2025 re-sampling. The "first draw" water samples were collected directly from water fountains or faucets (cold water spigots) which had been isolated from service for approximately 8-18 hours. The samples were collected directly into laboratory-supplied 250 ml bottles containing a HNO₃ preservative solution.

The samples were packed in a cooler and transmitted under chain of custody to Microbac Laboratories Inc. located at 100 Marshall Drive in Warrendale, Pennsylvania for analysis. This laboratory is a PA certified drinking water laboratory (PA Cert # 02-00257) accredited by the PA Department of Environmental Protection (PA DEP). The samples were analyzed for lead content by laboratory method EPA 200.8.

While the EPA drinking water recommended 'action level' for lead in Schools for drinking water at the tap is 0.020 milligrams per liter (mg/L) or 20 ug/L or 20 ppb, the **proposed PA Statewide Standard** for Lead in School drinking water maximum contaminant level is **5 ppb**. The EPA's "Lead and Copper Rule" (LCR) for Public Water suppliers (5CFR26460-26564) established an Action Level of 0.015 mg/L (15 ug/L or 15 ppb) for lead based on the 90th percentile level of tap water samples (1 L samples).

Public Water Supply Testing vs. Testing at Schools

- It is important to note that the lead testing protocol used by public water systems is aimed at identifying system-wide problems rather than problems at outlets in individual buildings. Moreover, the protocols for sample size and sampling procedures are different. Under the LCR for public water systems, a lead action level of 15 ppb is established for 1 L samples taken by public water systems at high risk residences. If more than 10 percent of the samples at residences exceed 15 ppb, system-wide corrosion control treatment may be necessary. The 15-ppb action level for public water systems is therefore a trigger for treatment rather than an exposure level.
- EPA recommends that schools collect 250 ml first-draw samples from water fountains and outlets, and that the water fountains and/or outlets be taken out of



service if the lead level exceeds 20 ppb. The sample was designed to pinpoint specific fountains and outlets that require remediation (e.g. water cooler replacement). The school sampling protocol maximizes the likelihood that the highest concentrations of lead are found because the first 250 ml are analyzed for lead after overnight stagnation.

• Some other local, State (such as NY State), and other agencies have adopted the more conservative lead action level of 15 ug/L (ppb). Women for a Healthy Environment recommends that the outlet be remediated if lead concentrations are between 5 and 10 ppb, and the outlet be taken out of service if the lead exceeds 10 ppb.

No lead was detected above the laboratory analytical detection limit in the sample collected from the Wexford Office sink following the February 6 & 28, 2025 resampling. Lead was detected at concentrations of 3.8 ppb and 5.0 ppb in the sample collected from the kettle at Hance following the February 6 & 28, 2025 resampling. Based on the presence of lead approaching the Women for a Healthy Environment limit of 5.0 ppb, the kettle will be removed from service.

Detailed sample summary tables for each of the buildings sampled, including sample numbers and sources sampled, sample location and the laboratory results, are provided as attachments to this report, along with the laboratory analytical reports.

CONCLUSIONS

The EPA's "Lead and Copper Rule" (LCR) for Public Water suppliers (5CFR26460-26564) established an Action Level of 0.015 mg/L (15 ug/L or 15 ppb) for lead based on the 90th percentile level of tap water samples (1 L samples). EPA has recommended that schools collect 250 ml first draw water samples with an action Level of 20 ppb. New York State has further recommended that an Action Level for lead in drinking water be set at 15 ppb. For purposes of this report, the Woman for a Healthy Environment Action Level of 5 ppb has been set.

Based on the presence of lead approaching the Women for a Healthy Environment limit of 5.0 ppb, the Hance kitchen kettle will be removed from service. No further action appears warranted for the other locations tested.

RECOMMENDATIONS

Upon receipt of the sampling results, PSI recommended that the outlets with concentrations exceeding the EPA recommended limit of 20 ppb be isolated, cleaned or replaced, and then re-sampled. PSI also recommended cleaning or replacing then re-sampling the potable water outlets that exceeded 5 ppb to verify concentrations.

The EPA recommends that "at a minimum, every outlet that is regularly used for cooking and drinking should be sampled." Periodic, routine testing is recommended. Regular testing can be valuable because it establishes a record of the water quality.



If any changes are made in the plumbing system, PSI recommends testing the outlets prior to regular use.

<u>WARRANTY</u>

The field observations, measurements, and research reported herein are considered sufficient in detail and scope to form for the analysis of the selected water quality parameters. The investigation and conclusions presented herein are based upon the subjective evaluation of limited data. They may not represent all conditions at the subject site as they reflect the information gathered from specific locations. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.

The water quality sampling and analysis has been developed to provide the client with information regarding select parameter concentrations in the water samples collected at the subject property. It is necessarily limited to the conditions observed and to the information available at the time of the work.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. PSI does not accept responsibility for changes in the state of the art, nor for changes in the regulations. PSI believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

This report for the above referenced property represents the product of PSI's professional expertise and judgment in the environmental and industrial hygiene consulting industry. This report is certified to, can be relied upon by, and has been prepared for the exclusive use of the client. PSI appreciates you selecting our services for your needs. Please contact us at 412-385-0469 should you have any questions regarding this report.

Respectfully Submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Michael Kopar, CIE Project Manager

p:\0816\2025\lead in water\08165069 pine richland screening\08165069-4 pine richland 2024 lead-in-water screening.docx Attachments: Laboratory Analysis Report & Chain of Custody Records



TABLE 1.0 DRINKING WATER SAMPLES Pine Richland Eden Hall Sample Date: December 18, 2024

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
EH-01	Kettle	Kitchen Middle kettle	First Draw	3.0
EH-02	WF	Inside cafe, right WF	First Draw	< 1.0
EH-03	WF	Outside Room 325	First Draw	< 1.0
EH-04	WF	Outside Rom 814	First Draw	< 1.0
EH-05	WF	Act Room 402	First Draw	< 1.0

WF – Water Fountain





TABLE 2.0DRINKING WATER SAMPLESPine Richland Hance ElementarySample Date: December 18, 2024

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
HE-1	Kettle			9.0
HE-1 (2-6-25)		Kitchen (right)	First Draw	3.8
HE-1 (2-28-25)				5.0
HE-2	Faucet	Office	First Draw	< 1.0
HE-3	WF	Outside gym	First Draw	< 1.0
HE-4	WF	Outside Rm 139	First Draw	< 1.0
HE-5	WF	Outside Room 113 cafe	First Draw	< 1.0

WF – Water Fountain





TABLE 3.0 DRINKING WATER SAMPLES Pine Richland High School Sample Date: December 18, 2024

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
HS-1	BF	Outside Weight Rm	First Draw	< 1.0
HS-2	BF	Green gym Weight Room	First Draw	< 1.0
HS-3	WF	Cafeteria storage	First Draw	< 1.0
HS-4	WF	Room 317W	First Draw	< 1.0
HS-5	WF	Outside Room 20	First Draw	< 1.0

WF – Water Fountain





TABLE 4.0 DRINKING WATER SAMPLES Pine Richland Middle School Sample Date: December 18, 2024

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
MS-1	Sink	Kitchen rear	First Draw	2.0
MS-2	Sink	Room 300 special needs	First Draw	< 1.0
MS-3	Sink	Room 400 Faculty	First Draw	< 1.0
MS-4	WF	Outside cafe	First Draw	< 1.0
MS-5	WF	Outside Room 207	First Draw	2.0

WF – Water Fountain





TABLE 5.0 DRINKING WATER SAMPLES Pine Richland - Richland Elementary Sample Date: December 18, 2024

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
RE-1	BF	Outside Room 103	First Draw	< 1.0
RE-2	Sink	Outside Room 219	First Draw	<1.0
RE-3	Sink	Kit Prep by C113	First Draw	< 1.0
RE-4	WF	Girl's LR	First Draw	< 1.0
RE-5	WF	Outside Room 117 (lunch)	First Draw	< 1.0

WF – Water Fountain





TABLE 6.0DRINKING WATER SAMPLESPine Richland Stadium / AthleticsSample Date: November 30, 2023

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
SD-1	Sink	Concession A	First Draw	< 1.0
SD-2	Sink	Concession B	First Draw	< 1.0
SD-3	Sink	Spirit Room	First Draw	1.0
SD-4	WF	Home locker (left)	First Draw	< 1.0
SD-5	WF	Visitor locker (left)	First Draw	< 1.0

WF – Water Fountain





TABLE 7.0 DRINKING WATER SAMPLES Pine Richland Wexford Elementary Sample Date: December 18, 2024

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
WE-1	Sink	Kit Food prep	First Draw	< 1.0
WE-2				5.0
WE-2 (2-6-25)	Sink	Main office	First Draw	< 1.0
WE-2 (2-28-25)				< 1.0
WE-3	WF	Kindergarten Locker Area (L)	First Draw	< 1.0
WE-4	WF	Outside Nurse's office	First Draw	< 1.0
WE-5	WF	Outside Rm D 115 music	First Draw	< 1.0

WF – Water Fountain



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Microbac Laboratories Inc., Pittsburgh Division

CERTIFICATE OF ANALYSIS

A5C0507

Intertek-PSI	Project Name: Pine Richard
Mike Kopar	Project / PO Number: 08165069
850 Poplar ST	Received: 03/04/2025
Pittsburgh, PA 15220	Reported: 03/15/2025

Analytical Testing Parameters

Client Sample ID:	Hance Kitchen								
Sample Matrix:	Drinking Water					Collected B	y: Client		
Lab Sample ID:	A5C0507-01					Collection D)ate: 02/06/2	2025 7:01	
	Analy	/ses Performed	by: Microbac	Laboratorie	es, Inc	Dayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, F	Rv. 5.4 (1994)								
Lead		0.0038	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1702	DLO
Client Sample ID:	Wexford Office Sink								
Sample Matrix:	Drinking Water					Collected B	y: Client		
Lab Sample ID:	A5C0507-02					Collection D)ate: 02/06/2	2025 7:38	
	Analy	/ses Performed	by: Microbac	Laboratorie	es, Inc	Dayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, F	Rv. 5.4 (1994)								
Lead		<0.0010	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1704	DLO
Client Sample ID:	Wexford Office								
Sample Matrix:	Drinking Water					Collected B	v: Client		

	0			- , -					
Lab Sample ID:	A5C0507-03				(Collection I	Date: 02/28/2	2025 7:15	
		Analyses Performed I	by: Microbac	Laboratorie	es, Inc D	ayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, F	Rv. 5.4 (1994)								
Lead		<0.0010	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1708	DLO

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CERTIFICATE OF ANALYSIS

A5C0507

Client Sample ID:	Hance Kitchen								
Sample Matrix:	Drinking Water				(Collected B	y: Client		
Lab Sample ID:	A5C0507-04					Collection I	Date: 02/28/2	.025 7:00	
	Analyses	Performed	by: Microbac	Laboratorie	es, Inc D	ayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, R	v. 5.4 (1994)								
Lead		0.0050	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1710	DLO
Microbac Laboratories Federal, state or local Definitions	s, Inc. advises the recipient of thi authorities before acting on the	data.	nfirm such limit	ts and units	of concentr	ration with t	he appropriate		
AL:	US EPA Action Level								
mg/L:	Milligrams per Liter								
RL:	Reporting Limit								
RPD:	Relative Percent Difference								
Project Requested 0	Certification(s)								
Microbac Laborate	pries Inc., Pittsburgh Division								
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Microbac Laborato	ories, Inc Dayville		_						
68-04413			Penr	isylvania De	epartment o	of Environme	ental Protection		

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<u>https://www.microbac.com/standard-terms-conditions></u>.

Reviewed and Approved By:

arolyn M. Vollentine

Carolyn Vollentine Service Center Manager Reported: 03/15/2025 13:31 Pittsburgh Division 100 Marshall Drive Warrendale, PA 15086 724.772.0610

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A 5 C O 5 0 Intertek-PSI - Pittsburgh, PA PM: Devin Wolford

Page 3 of 3

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rev.12/26/2017

Microbac Laboratories Inc., Pittsburgh Division

CERTIFICATE OF ANALYSIS

A5C0507

Intertek-PSI	Project Name: Pine Richard
Mike Kopar	Project / PO Number: 08165069
850 Poplar ST	Received: 03/04/2025
Pittsburgh, PA 15220	Reported: 03/15/2025

Analytical Testing Parameters

Client Sample ID:	Hance Kitchen								
Sample Matrix:	Drinking Water					Collected By	client		
Lab Sample ID:	A5C0507-01					Collection D	ate: 02/06/2	2025 7:01	
	Anal	yses Performed	by: Microbac	Laboratorie	es, Inc	Dayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, F	Rv. 5.4 (1994)								
Lead		0.0038	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1702	DLO
Client Sample ID:	Wexford Office Sink								
Sample Matrix:	Drinking Water					Collected By	client		
Lab Sample ID:	A5C0507-02					Collection D	ate: 02/06/2	2025 7:38	
	Anal	yses Performed	by: Microbac	Laboratorie	es, Inc	Dayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, F	Rv. 5.4 (1994)								
Lead		<0.0010	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1704	DLO
Client Sample ID:	Wexford Office								
Sample Matrix:	Drinking Water					Collected By	Client		

Lab Sample ID:	A5C0507-03			(2025 7:15				
		Analyses Performed	by: Microbac	Laboratorie	es, Inc D	ayville			
Metals Total by ICPMS	6	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, R	v. 5.4 (1994)								
Lead		<0.0010	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1708	DLO

MICROBAC[®]

Microbac Laboratories Inc., Pittsburgh Division

CERTIFICATE OF ANALYSIS

A5C0507

Client Sample ID:	Hance Kitchen								
Sample Matrix:	Drinking Water				(Collected B	y: Client		
Lab Sample ID:	A5C0507-04					Collection I	Date: 02/28/2	.025 7:00	
	Analyses	Performed	by: Microbac	Laboratorie	es, Inc D	ayville			
Metals Total by ICPM	S	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, R	v. 5.4 (1994)								
Lead		0.0050	0.015 AL	0.0010	mg/L		03/10/25 1351	03/10/25 1710	DLO
Microbac Laboratories Federal, state or local Definitions	s, Inc. advises the recipient of thi authorities before acting on the	data.	nfirm such limit	ts and units	of concentr	ration with t	he appropriate		
AL:	US EPA Action Level								
mg/L:	Milligrams per Liter								
RL:	Reporting Limit								
RPD:	Relative Percent Difference								
Project Requested 0	Certification(s)								
Microbac Laborate	pries Inc., Pittsburgh Division								
02-00257			Penr	isylvania De	epartment o	of Environme	ental Protection		
Microbac Laborato	ories, Inc Dayville		_						
68-04413			Penr	isylvania De	epartment o	of Environme	ental Protection		

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<u>https://www.microbac.com/standard-terms-conditions></u>.

Reviewed and Approved By:

arolyn M. Vollentine

Carolyn Vollentine Service Center Manager Reported: 03/15/2025 13:31 Pittsburgh Division 100 Marshall Drive Warrendale, PA 15086 724.772.0610

MICROBAC*

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A 5 C O 5 0 Intertek-PSI - Pittsburgh, PA PM: Devin Wolford

Page 3 of 3

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Lab Repo	rt Address		Invoice Add	dress					Lurnaroun	(5 fo 7	husinese	dave)	Tempera	ture Upon 1	Receipt (°C)	Terrar M.	
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Address:	850 Puplar st	2 2	Address:									÷	Holding	Time	20	43-T	192
City, State	, zip: Pittsbugh PA 15220		City, State,	Zip:					(nee	eded by)			Samples	Received o	on Ice? Yes N	IO ANA	
Contact:	Mile Koper		Contact:				œ		Report Typ	ie .			Custody	Seals Intac	t? Yes No 4	1A	
Telephone	No .: 412.385.0469	1	Telephone	No.:					[]Results (Only []L	_evel 1 []Level 2	[]Level3	[]Level 4	[]EDD	114 ¹⁴¹ 1111111111111111111111111111111	
Send Rep	ortvia: []Mail []Fax Ke-n	nail (address)					Send Invo	ice via:	[] Mail	[] Fax	kl e-mail	(address)	erts- 1.1150 p. dar gar 3-	ه امانه دیک و کوری و و و مدینان و و و و و	8 4 4 16 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
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Sampled b	by (PRINT): Clive f		Sampler Signature: *	n	e la	iL	• •	1441 - 1475 - 1475 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 - 1476 -	Sampler No.	Phone :	724	630.	1713		* • • • • • • • • • • • • • • • • • • •		
Intern Antoine and	* Matrix Types: Soil/Solid (S),	Sludge, Oil, Wipe	, Drinking Wat	er (DV	V), Gro	undwa	ater (GW), Surf	ace Wate	er (SW), Wast Ifate (8) Sodi	e Water	(WW), Ot	her (spe Hexane	oify) (U) Unpre	served	2000 2000		- 1
*	* Preservative Types: (1) HNO3, (2)	H2SO4, (3) HCl, ((4) NaOH, (5) /		cetate,				F	REQUES	TED ANA	LYSIS				nines P	reservea
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•		Date	Time	o. of Can	atrix	rab / Con	Preservative	6.000							Additional	Time:	14:25 als: 445
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