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Pittsburgh, PA 15220
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psiusa.com

October 25, 2022

Allegheny Clarion Valley School District

762 Route 58

Box 345

Foxburg, Pennsylvania 16036

Attn: Mr. Mark Milford

Director of Buildings and Grounds

Mark.milford@acvsd.org

Re: 2022 Potable Lead in Water Screening

Allegheny Clarion Valley

Foxburg, Clarion County, Pennsylvania

PSI Project No. 08164520-2

Dear Mr. Milford:

In accordance with your request, Professional Service Industries, Inc. (PSI), an Intertek company, conducted a lead water screening of client-defined potable water sources at the Allegheny-Clarion Valley School District facilities. The screening was conducted in accordance with Act 39 requirements. The Allegheny-Clarion Valley School District previously tested, remediated and re-sampled outlets that exceeded 5.0 ppb in 2018/2019 and conducted screenings in 2019, 2020 and 2021. PSI's sampling included 5 "first draw" samples in the High School building and 5 "first draw" samples at the Elementary School building at the Allegheny-Clarion Valley School District.

PSI was given authorization to analyze the lead-in-water samples by Mr. Mark Milford, Director of Buildings & Grounds for the Allegheny-Clarion Valley School District referencing PSI Proposal 0816-320820, dated September 4, 2020.

SCOPE

Water samples were collected from the identified potable water outlets selected by the client in the Allegheny-Clarion Valley School District. The samples were collected from 10 potable water sources, including faucets and water fountains on October 4, 2022. 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. Of the 10 samples collected, **none** had lead concentrations above the proposed PA State recommended upper limit of 5.0 ppb or the laboratory analytical detection limit of 1.0 ppb.





METHODOLOGY

A total of ten (10) “first draw” water samples from potable drinking water outlets on October 4, 2022. 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 Pace Analytical Laboratories located at 575 Broad Hollow Road, in Melville, NY 11747 for analysis. This laboratory is a PA certified drinking water laboratory (PA Cert # 68-00350) 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.



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

Of the 10 samples collected, **none** (0) had lead concentrations above the proposed PA State recommended upper limit of 5.0 ppb or the laboratory analytical detection limit of 1.0 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). 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.

RECOMMENDATIONS

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.

WARRANTY

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 412-922-4001 x 0383 should you have any questions regarding this report.

Respectfully Submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Michael Kopar, CIE
Project Manager

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Attachments: Drinking Water Sampling Tables
Laboratory Analysis Report & Chain of Custody Records



TABLE 1.0
DRINKING WATER SAMPLES
Allegheny-Clarion Valley High School
Sample Date: October 4, 2022

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
HS-41S	Faucet	High School – Maintenance Garage	1 st Draw	< 1.0
HS-30F	Fountain	High School – Nurse's Hall WF	1 st Draw	< 1.0
HS-28S	Faucet	High School – Faculty sink	1 st Draw	< 1.0
HS-14F	Fountain	High School – Library Hall WF	1 st Draw	< 1.0
HS-06F	Fountain	High School – Cafeteria WF	1 st Draw	< 1.0

WF - Water Fountain

Bolded results exceeded the EPA Recommended Action Level of 20 ug/L (Pb), the NY State Action Level of 15 ppb and/or the proposed PA State Level of 5 ppb





TABLE 2.0
DRINKING WATER SAMPLES
Allegheny-Clarion Valley Elementary School
Sample Date: October 4, 2022

Sample No.	Source	Sample Location	Sample type	Analytical Result (Pb) (ug/L = ppb)
EL-13F	Fountain	Elem School – Cafeteria Hall WF	1 st Draw	< 1.0
EL-27F	Fountain	Elem School – ½ WF	1 st Draw	< 1.0
EL-38F	Fountain	Elem School – 5/6 WF	1 st Draw	< 1.0
EL-55F	Fountain	Elem School – ¾ WF	1 st Draw	< 1.0
EL-04F	Fountain	Elem School – Gym Hall WF	1 st Draw	< 1.0

WF - Water Fountain

Bolded results exceeded the EPA Recommended Action Level of 20 ug/L (Pb), the NY State Action Level of 15 ppb and/or the proposed PA State Level of 5 ppb



October 19, 2022

Mike Kopar
Intertek-PSI
850 Poplar Street
Pittsburgh, PA 15220

RE: Project: ALLEG-DARINO VALLEY 10/4
Pace Project No.: 70232329

Dear Mike Kopar:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Andrew J. Lynch
andrew.lynch@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: David Christner, Professional Service Industries
Eric Oldroyd, Intertek-PSI



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ALLEG-DARINO VALLEY 10/4

Pace Project No.: 70232329

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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ANALYTICAL RESULTS

Project: ALLEG-DARINO VALLEY 10/4
Pace Project No.: 70232329

Sample: HS-41S MAINT GARAGE SINK **Lab ID: 70232329001** Collected: 10/04/22 05:25 Received: 10/06/22 14:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8 Pace Analytical Services - Melville								
Lead	<1.0	ug/L	1.0	1		10/18/22 19:52	7439-92-1	

Sample: HS-30F NURSE HALL FOUNTAIN **Lab ID: 70232329002** Collected: 10/04/22 05:27 Received: 10/06/22 14:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8 Pace Analytical Services - Melville								
Lead	<1.0	ug/L	1.0	1		10/18/22 19:53	7439-92-1	

Sample: HS-28S FACULTY SINK **Lab ID: 70232329003** Collected: 10/04/22 05:29 Received: 10/06/22 14:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8 Pace Analytical Services - Melville								
Lead	<1.0	ug/L	1.0	1		10/18/22 19:55	7439-92-1	

Sample: HS-14F LIBRARY HALL FOUNTAIN **Lab ID: 70232329004** Collected: 10/04/22 05:32 Received: 10/06/22 14:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8 Pace Analytical Services - Melville								
Lead	<1.0	ug/L	1.0	1		10/18/22 19:56	7439-92-1	

Sample: HS-06F CAFETERIA **Lab ID: 70232329005** Collected: 10/04/22 05:37 Received: 10/06/22 14:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8 Pace Analytical Services - Melville								
Lead	<1.0	ug/L	1.0	1		10/18/22 20:01	7439-92-1	

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ANALYTICAL RESULTS

Project: ALLEG-DARINO VALLEY 10/4
Pace Project No.: 70232329

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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Sample: EL-13F CAFETERIA HALL		Lab ID: 70232329006	Collected: 10/04/22 05:41	Received: 10/06/22 14:27	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		10/18/22 20:02	7439-92-1	

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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Sample: EL-27F 1/2 FOUNTAIN		Lab ID: 70232329007	Collected: 10/04/22 05:43	Received: 10/06/22 14:27	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		10/18/22 20:04	7439-92-1	

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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Sample: EL-38F 5/6 FOUNTAIN		Lab ID: 70232329008	Collected: 10/04/22 05:45	Received: 10/06/22 14:27	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		10/18/22 20:05	7439-92-1	

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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Sample: EL-55F 3/4 FOUNTAIN		Lab ID: 70232329009	Collected: 10/04/22 05:47	Received: 10/06/22 14:27	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		10/18/22 20:10	7439-92-1	

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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Sample: EL-04F GYM HALL		Lab ID: 70232329010	Collected: 10/04/22 05:49	Received: 10/06/22 14:27	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		10/18/22 20:11	7439-92-1	

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QUALITY CONTROL DATA

Project: ALLEG-DARINO VALLEY 10/4
Pace Project No.: 70232329

QC Batch: 278304 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70232329001, 70232329002, 70232329003, 70232329004

METHOD BLANK: 1406468 Matrix: Water
Associated Lab Samples: 70232329001, 70232329002, 70232329003, 70232329004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	10/18/22 19:09	

LABORATORY CONTROL SAMPLE: 1406469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	47.6	95	85-115	

MATRIX SPIKE SAMPLE: 1406471

Parameter	Units	70233211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.6	50	52.5	100	70-130	

MATRIX SPIKE SAMPLE: 1406473

Parameter	Units	70233211002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.3	50	54.1	105	70-130	

SAMPLE DUPLICATE: 1406470

Parameter	Units	70233211001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	2.6	2.6	1	

SAMPLE DUPLICATE: 1406472

Parameter	Units	70233211002 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.3	1.3	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ALLEG-DARINO VALLEY 10/4

Pace Project No.: 70232329

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALLEG-DARINO VALLEY 10/4

Pace Project No.: 70232329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70232329001	HS-41S MAINT GARAGE SINK	EPA 200.8	278304		
70232329002	HS-30F NURSE HALL FOUNTAIN	EPA 200.8	278304		
70232329003	HS-28S FACULTY SINK	EPA 200.8	278304		
70232329004	HS-14F LIBRARY HALL FOUNTAIN	EPA 200.8	278304		
70232329005	HS-06F CAFETERIA	EPA 200.8	278305		
70232329006	EL-13F CAFETERIA HALL	EPA 200.8	278305		
70232329007	EL-27F 1/2 FOUNTAIN	EPA 200.8	278305		
70232329008	EL-38F 5/6 FOUNTAIN	EPA 200.8	278305		
70232329009	EL-55F 3/4 FOUNTAIN	EPA 200.8	278305		
70232329010	EL-04F GYM HALL	EPA 200.8	278305		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70232329

Client Name: PSI

Project: PM: AJL Due Date: 10/20/22 CLIENT: PSIC

Courier: [x] Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other

Tracking #: 9546 2324 4760

Custody Seal on Cooler/Box Present: [x] Yes [] No Seals intact: [x] Yes [] No [] N/A

Packing Material: [] Bubble Wrap [] Bubble Bags [] Ziploc [x] None [] Other

Thermometer Used: T1148 Correction Factor: +0.1

Cooler Temperature (°C): 14.8 Cooler Temperature Corrected (°C): 19.4

Temp should be above freezing to 6.0°C

USDA Regulated Soil [] N/A, water sample

Temperature Blank Present: [] Yes [x] No

Type of Ice: Wet Blue [x] None

[] Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: 10/6/22 SH

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? [] Yes [] No

Did samples originate from a foreign source

including Hawaii and Puerto Rico)? [] Yes [x] No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

Table with 17 rows and 3 columns. Columns: Question, Yes/No/N/A, and COMMENTS. Includes items like Chain of Custody Present, Samples Arrived within Hold Time, and pH paper Lot # 212521.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.



American Council for Accredited Certification

hereby certifies that

Michael N. Kopar

has met all the specific standards and qualifications of the re-certification process,
including continued professional development, and is hereby re-certified as a

CIE

**Council-certified
Indoor Environmentalist**

This certificate expires on June 30, 2024.

Charles F. Wiles, Executive Director

00861

Certificate Number

This certificate remains the property of the American Council for Accredited Certification.