PEQUANNOCK TOWNSHIP SCHOOL DISTRICT

LEAD IN DRINKING WATER POST REMEDIATION REPORT

PERFORMED FOR:

PEQUANNOCK TOWNSHIP SCHOOL DISTRICT
85 SUNSET ROAD
PEQUANNOCK, NJ 07444

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
1248 WRIGHTS LANE
WEST CHESTER, PA 19380

APRIL 2025

Westchester Environmental

April 15, 2025

Mr. Dwight Anderson
Pequannock Township School District
85 Sunset Road
Pequannock, NJ 07444

Re: POST REMEDITION LEAD IN DRINKING WATER REPORT

Dear Mr. Anderson,

Please find enclosed the post remediation report for the sampling conducted in the Nurse's Office at the Pequannock Township High School.

The remediation measures taken were successful in lowering the lead concentration below the action limit in the Nurse's office.

Thank you for giving us the opportunity to be of service. Please do not hesitate to contact us at 610-431-7545 or email cpiccininni@westchesterenvironmental.com or info@westchesterenvironmental.com.

Sincerely,

Westchester Environmental, LLC

Christopher Piccininni
Environmental Specialist

TABLE OF CONTENTS

PEQUANNOCK TOWNSHIP SCHOOL DISTRICT

1.0 EXECUTIVE SUMMARY 2
2.0 INTRODUCTION 3
3.0 SAMPLING AND ANALYSES 4
4.0 SAMPLE RESULTS 5
5.0 DISCUSSION & RECOMMENDATIONS 6
6.0 DISCLAIMER 7

1.0 EXECUTIVE SUMMARY

Westchester Environmental LLC (WCE) was contracted by Mr. Dwight Anderson of the Pequannock Township School District to conduct post remediation lead in water testing for the school district for the 2024-2025 school year.

The objective of this sampling was to collect and analyze water samples at the fixture where the initial first draw samples, collected on November 23, 2024, contained lead above the New Jersey Department of Environmental Protection's (NJDEP) action level of 15.5 micrograms per liter (ug/L) or 15.5 parts per billion (ppb). The analysis of lead content was based using U.S. Environmental Protection Agency (EPA) Method 200.8 for lead in drinking water

The post remediation sampling was performed by Christopher Piccininni of WCE over two sampling events on December 22, 2024, and March 29, 2025. During these visits, only first draw samples were collected in the Nurse's office on the first floor at the Pequannock Township High School.

December 22, 2024: First round of post remediation sampling

Building		Location Code	Results (ug/L)	Action Level (ug/L)	Lead Hazard (Yes/No)
1	Pequannock Township High School	PHS-1FL-NS-Nurse Office-F	16.1	15.5	Yes

Immediate Action Required:

Water usage at the above location was discontinued until further post remediation measures were taken. This location was retested (see table below) to ensure the remedial work was successful.

March 29, 2025: Second round of post remediation sampling

Building		Location Code	Results (ug/L)	Action Level (ug/L)	Lead Hazard (Yes/No)
1	Pequannock Township High School	PHS-1FL-NS-Nurse Office-F	< 1.00	15.5	No

Action Required:

No action is required at the present time.

-END OF SECTION-

2.0 INTRODUCTION

The post-remediation sampling on December 22, 2024, and March 29, 2025. was conducted in the Nurses office on the first floor at the Pequannock Township High School. During these visits, one first draw drinking water sample was collected.

The purpose of the sampling was to collect a water sample from the remediated fixture that exceeded the New Jersey Department of Environmental Protection's (NJDEP) lead action level of 15.5 micrograms per liter(ug/L) of 15.5 parts per billion(ppb) during the initial sampling conducted on November 23, 2024.

Lead in school drinking water continues to be a serious concern, with children in many schools potentially drinking water with dangerous levels of lead. Even when water entering a facility meets all federal and state public health standards for lead concentrations, older plumbing materials found in schools can contribute to elevated lead levels in the drinking water.

The NJDEP's action level for lead in drinking water is set at 15. However, for the purposes of compliance, any concentration greater than 15 µg/L (as defined as greater than or equal to 15.5 µg/L) is considered to exceed the lead action level. If sampling exceeds the level, then action will need to be taken.

The Environmental Protection Agency (EPA) itself states that 15 ug/L is not a health-based standard but rather based on what is feasible for water systems to achieve. According to the EPA, given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

On October 8, 2024, the EPA announced the finalization of key improvements to the Lead and Copper Rule (LCR), which introduces new regulations that will reshape how public water suppliers manage lead service lines. These changes are critical to protecting public health and will become effective in late 2027, three years after their publication.

One of the most significant changes is the reduction of the lead action level to 10 ug/L. Water systems that exceed this threshold must take immediate corrective actions, including notifying the public, implementing corrosion control treatments, and expediting lead service line replacement.

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

One first draw post remediation sample was collected during each of the two sampling events. Post-remediation samples are used to determine if remediation measures taken sufficiently addressed the exceedances observed during the initial sampling events.

1. December 22, 2024 - One first draw sample in the Nurse's office on the first floor at the Pequannock Township High School was collected.

2. March 29, 2025 - One first draw sample was collected in the Nurse's office on the first floor at the Pequannock Township High School.

The collected samples were labeled with a unique identification number and transported to Suburban Laboratory for analysis of lead in drinking water using EPA Method 200.8. Suburban Testing Labs located at 1037F MacArthur Rd, Reading, PA 19605, is a NJ certified Lead in Drinking Water testing facility.

The guidelines below were referenced for sampling:

1. New Jersey Department of Education N.J.A.C. 6A:26

2. The USEPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

3. Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water as well as the Safe Drinking Water Act of 1974".

-END OF SECTION-

4.0 SAMPLE RESULTS

The tables below show the first draw concentrations of lead (microgram per liter) at the previously failed location on the dates sampled. The NJDEP establishes 15.5 ug/L as the lead action limit.

December 22, 2024: First Draw First Post Remediation

Building		Location Code	Results (ug/L)	Action Level (ug/L)	Lead Hazard (Yes/No)
1	Pequannock Township High School	PHS-1FL-NS-Nurse Office-F	16.1	15.5	Yes

March 29, 2025: First Draw Second Post Remediation

Building		Location Code	Results (ug/L)	Action Level (ug/L)	Lead Hazard (Yes/No)
1	Pequannock Township High School	PHS-1FL-NS-Nurse Office-F	< 1.00	15.5	No

-END OF SECTION

5.0 DISCUSSION & RECOMMENDATIONS

Lead can enter water when plumbing materials corrode, especially if the water is acidic or has low mineral content. Lead pipes, faucets, and fixtures are the most common sources of lead in drinking water.

The Safe Drinking Water Act requires the EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur with an adequate margin of safety. These non-enforceable health goals, based solely on possible health risks, are called maximum contaminant level goals (MCLGs). The EPA has set the maximum contaminant level goal for lead in drinking water at zero because lead is a toxic metal that can be harmful to human health even at low exposure levels. Lead is persistent, and it can bioaccumulate in the body over time.

According to the US EPA, lead enters drinking water primarily through plumbing materials. Post-remediation samples are used to determine if remediation measures taken had sufficiently addressed the exceedances observed during the initial sampling event. The lead content in the samples collected was analyzed using U.S. Environmental Protection Agency (EPA) Method 200.8 for lead in drinking water.

First Post Remediation Sampling Results:

The post remediation first draw sample collected on December 22, 2024 in the Nurses office on the first floor at the Pequannock Township High School **exceeded** the action limit of 15.5 ug/L.

Immediate Action: Water usage at the above location was discontinued and further post remediation measures were taken. This location was retested to make sure the remedial work was successful.

Second Post Remediation Sampling Results:

The post remediation first draw sample collected on March 29, 2025 in the Nurses office on the first floor at the Pequannock Township High School **fell below** the action limit of 15.5 ug/L.

Action Required: No action is required at the present time. The remediation measures taken were successful in lowering the lead concentration below the action limit.

-END OF SECTION-

6.0 DISCLAIMER

The type of samples collected for this assessment are referred to as grab samples. Grab samples are individual discrete samples collected at a specific time and location.

No guarantee or warranty of the findings and conclusions is implied within the intent of this report. It is limited to only those items listed in the report and is a snapshot of the conditions existing at the time of the assessment as conditions may vary with time.

WCE assumes no liability with regard to decisions made or the use of any information contained in this report, which is prepared exclusively for and is confidential to the above noted client. These services are designed to provide an analytical tool to assist the client, and the user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC

Christopher Piccininni
Environmental Specialist

-END OF REPORT-

Westchester Environmental

APPENDIX I

LEAD IN DRINKING WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

Results Report

Order ID: 4L05322

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Pequannock Township School District
85 Sunset Rd.
Pequannock, NJ 07444

Attn: Christopher Piccininni

Regulatory ID:

Sample Number: 4L05322-01 | Site: PHS-1FL-NS-Nurse Office | Sample ID: First 001
Collector: CMP | Collect Date: 12/22/2024 7:05 am | Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
Metals										
Lead	16.1	µg/L	EPA 200.8	1.00		1	12/27/24	MBS	12/31/24 19:16	RBP

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH, Final* for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's NELAP Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Lauren Ulle
Project Manager I

Report Generated On: 01/03/2025 8:31 am 4L05322
STL_Results Revision #3.0 Effective: 05/29/2024

4L05322
Lauren Ulle

SUBURBAN TESTING LABS

TESTING LABS

1037F MacArthur Road, Reading, PA 19605
610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

(Check One) Standard 24hr 48hr 72hr Other

Client Name:	Westchester Environmental LLC.			Project Name:	Pequannock Township SD
Address:	1248 Wrights Lane	Phone:	610-431-7545	Address:	Pequannock Township School District
	West Chester, PA 19380	Email:	cpiccininni@westchesterenvironmental.com		85 Sunset Rd., Pequannock, NJ 07444
Contact Name:	Chris Piccininni			Payment / P.O. Info:	

Comments:

Flush / First Draw	Location Code	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample Description / Site ID
First	PHS-1FL-NS-Nurse Office	12/22/24	07:05 AM	CMP	001	Pb EPA 200.8	1	PW	G	P	H	Nurse Office

Relinquished by: CP Date: 12/23/24
Time: 8:00AM

Received By: Date: 12-23-24 Temp °C:
Time: 1703 Acceptable Y / N

Relinquished by: Date: 12-23-24 Temp °C: 16 C
Time: 1630 Acceptable Y / N
No ice

Received in Lab By: Date: 12-23-24 Temp °C: 16.6°
Time: 1735 Acceptable Y / N
No ice

Sample Conditions		Matrix Key		Bottle Type Key
Submitted w/ COC	Y / N	NPW = Non-Potable Water		P = Plastic
		Solid = Raw Sludge, Dewatered Sludge,soil, etc. (reported as mg/l)		G = Glass
Number of containers match number on	Y / N	PW = Potable Water (not for SWDA compliance)		O= Other
		SWDA = Safe Drinking Water Act Potable Sample		Preservative Key
All containers intact	Y / N	Sample Type Key	SWDA Sample Type	H = Sodium Thiosulphate A = Ascorbic Acid H = HNO3 C = HCl S = H_2SO_4 OH = NaOH O = Other NA = None Required
Tests within holding times	Y / N	G = Grab 8 HC = 8 Hour Composite	D = Disrtibution E = Entry Point R = Raw C = Check S = Special M = Maximum Residence	
40 ml. VOA vials free of headspace ?	Y / N	24 HC = 24 Hour Composite		

(1) 250mL P + HNO3
O= pH<2 KMS2 12-23-24

Results Report

Order ID: 5D03423

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Pequannock Township SD
85 Sunset Rd
Pequannock, NJ 07444

Attn: Christopher Piccininni

Regulatory ID:

Sample Number: 5D03423-01 | Site: PHS-1FL-NS-Nurse Office | Sample ID: First
Collector: CMP | Collect Date: 03/29/2025 8:05 am | Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
Metals										
Lead	< 1.00	µg/L	EPA 200.8	1.00		1	04/04/25	RPV	04/04/25 19:23	RPV

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH, Final* for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's NELAP Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Lauren Ulle
Project Manager I

Report Generated On: 04/09/2025 1:33 pm 5D03423
STL_Results Revision #3.0 Effective: 05/29/2024

5D03423
Lauren Ulle

SUBURBAN TESTING LABS

TESTING LABS

Chain of Custody Record

1037F MacArthur Road, Reading, PA 19605
610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

One) Standard 24hr 48hr 72hr Other

Client Name:	**Westchester Environmental LLC.**			Project Name:	Pequannock Township SD
Address:	**1248 Wrights Lane**	**Phone:**	610-431-7545	Address:	Pequannock Township School District
	West Chester, PA 19380	**Email:**	cpiccininni@westchesterenvironmental.com		85 Sunset Rd., Pequannock, NJ 07444
Contact Name:	**Chris Piccininni**			Payment / P.O. Info:	

Comments:

Flush / First Draw	Location Code	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample Description / Site ID
First	PHS-1FL-NS-Nurse Office	03/29/25	08:05 AM	CMP	001	* Pb EPA 200.8	1	PW	G	P	H	Nurse Office

Relinquished by: CP Date: 4/2/25
Time: 7:15AM

Received By: Don Wilson Date: 4/2/25 Temp °C:
Time: 1022 Acceptable Y / N

Relinquished by: Don Wilson Date: 4/2/25 Temp °C: 3.0
Time: 1540 Acceptable Y / N

Received in Lab By: Don Wilson Date: 4/2/25 Temp °C: 3.0
Time: 1545 Acceptable Y / N

* 250 mL P+HNO3 pH<2 DRW 4/2/25 NS203

Sample Conditions		Matrix Key	Sample Type Key	SWDA Sample Type	Bottle Type Key
Submitted w/ COC	Y / N	NPW = Non-Potable Water	G = Grab	D = Disrtibution	P = Plastic
		Solid = Raw Sludge, Dewatered Sludge,soil, etc. (reported as mg/l)	8 HC = 8 Hour Composite	E = Entry Point	G = Glass
Number of containers match number on	Y / N	PW = Potable Water (not for SWDA compliance)	24 HC = 24 Hour Composite	R = Raw	O= Other
		SWDA = Safe Drinking Water Act Potable Sample		C = Check	**Preservative Key**
All containers intact	Y / N			S = Special	H = Sodium Thiosulphate
Tests within holding times	Y / N			M = Maximum Residence	A = Ascorbic Acid
40 ml. VOA vials free of headspace ?	Y / N				H = HNO_3
					C = HCl
					S = H_2SO_4
					OH = NaOH
					O = Other
					NA = None Required