



WARREN HILLS REGIONAL SCHOOL DISTRICT

LEAD IN DRINKING WATER POST-REMEDIATION SAMPLING REPORT

PERFORMED FOR:

WARREN HILLS REGIONAL SCHOOL DISTRICT
89 BOWERSTOWN ROAD
WASHINGTON, NJ 07882

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
1248 WRIGHTS LANE
WEST CHESTER, PA 19380

MARCH 2025



March 18, 2025

Mr. Michael Mason
Warren Hills Regional School District
89 Bowerstown Road
Washington, NJ 07882

**Re: LEAD IN DRINKING WATER POST-REMEDIATION SAMPLING
REPORT-**

Dear Mr. Mason,

Please find enclosed the report for the Lead in Drinking Water – Post-Remediation Sampling conducted for the Warren Hills Regional School District.

One post remediation sample in kitchen 514C exceeded the lead action level of 15.5.

Thank you for giving us the opportunity to be of service. If you have any questions, please contact me at 610-431-7545 or email me at cpiccininni@westchesterenvironmental.com.

Sincerely,

Westchester Environmental, LLC

A handwritten signature in black ink, appearing to read 'Christopher Piccininni', is written over a light blue circular background.

Christopher Piccininni
Environmental Specialist

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WARREN HILLS REGIONAL SCHOOL DISTRICT

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1.0 EXECUTIVE SUMMARY

Westchester Environmental, LLC (WCE) was contracted by Mr. Michael Mason of the Warren Hills Regional 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 fixtures where the initial first draw samples, collected on September 7, 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 Westchester Environmental, LLC over two sampling events. The Administrative Building and the Warren Hills Regional High School were sampled during the first round of post remediation sampling on December 21, 2024. The results detailed below indicate that the remediation measures at the Administrative Building were successful, but the sample collected at the High School exceeded the action level of 15.5 ug/L.

12/21/24 - First Draw

Building	Location Code	Results (ppb)	Action Level (ppb)	Lead Hazard (Yes/No)
1 Warren Hills High School	Kitchen 514C - 10	72.1	15.5	Yes
2 Administrative Building	1st Fl. Break Room - Right Sink	2.11	15.5	No

During the second round of post remediation on February 10, 2025, a first draw and a flush sample were collected at the Warren Hills Regional High School location. The first draw exceeded the action level of 15.5 ug/L while the flush sample came back below the action level.

02/10/25 - Lead Water Exceedances - First Draw

Building	Location Code	Results (ppb)	Action Level (ppb)	Lead Hazard (Yes/No)
1 Warren Hills High School	Kitchen 514C - 10	302	15.5	Yes
2 Warren Hills High School	Kitchen 514C - 10 Flush	6.12	15.5	No

Immediate Action Required:

Discontinue using water at the above location until further post remediation measures are taken. This location will need to be retested before it can be put into service to make sure the remedial work was successful.

-END OF SECTION-

2.0 INTRODUCTION

The post-remediation sampling on December 21, 2024 was conducted at one predetermined location in the Administrative Building and one predetermined location at the Warren Hills Regional High School. During this visit, two first draw drinking water samples were collected.

The second post remediation sampling was conducted on February 10, 2025 at the Warren Hills Regional High School. One first and one flush sample were collected during this visit, to confirm again if the outlet or piping was the cause of the exceedances.

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 the 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

During the two sampling events, a total of four samples – three first draw and one flush were collected. The post-remediation samples are used to determine if remediation measures taken sufficiently addressed the exceedances of 15.5 ug/L observed during the initial sampling event.

1. December 21, 2024 - One first draw sample from the Administrative Building, and one first draw from the Warren Hills Regional High School were collected.
2. February 10, 2025 - One first draw sample and one flush sample were collected from the Warren Hills Regional High School.

All 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 documents listed below were followed for guidance:

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 sampled locations on December 21, 2024 and on February 10, 2025. The NJDEP establishes 15.5 ug/L as the lead action limit.

Table 1: 12/21/24 - First Draw Post Remediation

Building	Location Code	Results (ppb)	Action Level (ppb)	Lead Hazard (Yes/No)
1 Warren Hills High School	Kitchen 514C - 10	72.1	15.5	Yes
2 Administrative Building	1st Fl. Break Room - Right Sink	2.11	15.5	No

Table 2: 02/10/24 - First & Flush Draw Post Remediation

Building	Location Code	Results (ppb)	Action Level (ppb)	Lead Hazard (Yes/No)
1 Warren Hills High School	Kitchen 514C - 10	302	15.5	Yes
2 Warren Hills High School	Kitchen 514C - 10 Flush	6.12	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.

Based on laboratory analysis of the samples analyzed, **one post remediation first draw sample in Kitchen 514 at the Warren Hills High School exceeded the action limit of 15.5 ug/L.**

According to the US EPA, lead enters drinking water primarily through plumbing materials. For further information on guidance protocols that were followed please refer to The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools". The following are recommended, based on the laboratory analysis after the second round of sampling.

Action Required:

1. Continue to leave the water turned off at the Warren Hills High School in Kitchen 514.
2. Refer to EPA's "**for Reducing Lead in Drinking Water in Schools and Child Care Facilities**" for other short term and long term suggested remediation measures and notification procedures.
3. This location should be decommissioned for the remainder of the school year. Before the point can be re-commissioned, it will need to be tested to ensure it does not exceed the action level to prove that the post remediation measures were successful.

-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 regards 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-

APPENDIX I

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



Results Report

Order ID: 4L05324

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Warren Hills Regional SD Multiple Buildings

Attn: Christopher Piccininni

Regulatory ID:

Sample Number: 4L05324-01
Collector: CMP

Site: WHHS-1FL-FP-Kitchen 514C-Water Pot
Collect Date: 12/21/2024 6:00 am

Sample ID: First 001
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	-----	-----	----	-----------	----	---------------	----

Metals

Lead	72.1	µg/L	EPA 200.8	1.00		1	12/27/24	MBS	12/31/24 19:24	RBP
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Sample Number: 4L05324-02
Collector: CMP

Site: WHA-1FL-S-Right
Collect Date: 12/21/2024 6:08 am

Sample ID: First 002
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	-----	-----	----	-----------	----	---------------	----

Metals

Lead	2.11	µg/L	EPA 200.8	1.00		1	12/27/24	MBS	12/31/24 19:28	RBP
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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.

Report Generated On: 01/03/2025 8:29 am
STL_Results Revision #3.0

4L05324
Effective: 05/29/2024



SUBURBAN
TESTING LABS

Reviewed and Released By:

Lauren Ullé
Project Manager I

Report Generated On: 01/03/2025 8:29 am 4L05324
STL_Results Revision #3.0 Effective: 05/29/2024





TESTING LABS

4L05324
Lauren Uille

ick One)

Standard

24hr

48hr

72hr

Other

Client Name:	Westchester Environmental LLC.
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Address:	1248 Wrights Lane
----------	-------------------

Phone:	610-431-7545
--------	--------------

Project Name: Warren Hills Regional SD

Address: Multiple Buildings

	West Chester, PA 19380
--	------------------------

Email: cpiccininni@westchesterenvironmental.com

Payment / P.O. Info:

Comments:

[illegible]

Relinquished by:

Received By:

Relinquished by:

Received in Lab By:

Date: 12/23/24

Time: 8:00 AM

Date: 12.23²⁴ Temp °C:

Time: 1403 Acceptable Y / N

Date: 12.23.24 Temp °C: 16.64

Time: 1630 Acceptable Y / N

Date: 12-23-21 Temp °C: 16.6°

Time: 1739 Acceptable Y / N

Sample Conditions	Matrix Key	Bottle Type Key														
Submitted w/ COC (Y) N	NPW = Non-Potable Water	P = Plastic G = Glass O = Other														
Number of containers match number on COC? (Y) N	Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as mg/l) PW = Potable Water (not for SWDA compliance) SWDA = Safe Drinking Water Act Potable Sample	Preservative Key H = Sodium Thiosulphate A = Ascorbic Acid H = HNO ₃ C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required														
All containers intact (Y) N	<table border="1"> <thead> <tr> <th>Sample Type Key</th><th>SWDA Sample Type</th></tr> </thead> <tbody> <tr> <td>G = Grab</td><td>D = Distribution</td></tr> <tr> <td>8 HC = 8 Hour Composite</td><td>E = Entry Point</td></tr> <tr> <td></td><td>R = Raw</td></tr> <tr> <td></td><td>C = Check</td></tr> <tr> <td></td><td>S = Special</td></tr> <tr> <td></td><td>M = Maximum Residence</td></tr> </tbody> </table>	Sample Type Key	SWDA Sample Type	G = Grab	D = Distribution	8 HC = 8 Hour Composite	E = Entry Point		R = Raw		C = Check		S = Special		M = Maximum Residence	
Sample Type Key	SWDA Sample Type															
G = Grab	D = Distribution															
8 HC = 8 Hour Composite	E = Entry Point															
	R = Raw															
	C = Check															
	S = Special															
	M = Maximum Residence															
Tests within holding times (Y) N																
40 ml. VOA vials free of headspace? (Y) N	24 HC = 24 Hour Composite															

(2) 250 mL P + HNO₃
O = pH = 2 KMnO₄ 12-23-20



Results Report

Order ID: 5B03809

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Warren Hills Regional SD
High School

Attn: Christopher Piccininni

Regulatory ID:

Sample Number: 5B03809-01
Collector: CMP

Site: WHHS-1FL-FP-Kitchen 514C- Water Po
Collect Date: 02/10/2025 7:10 am

Sample ID: First 001
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	302	T1	µg/L	EPA 200.8	5.00	5	02/14/25	RBP	02/19/25 19:38	RBP
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Sample Number: 5B03809-02
Collector: CMP

Site: WHHS-1FL-FP-Kitchen 514C- Water Po
Collect Date: 02/10/2025 7:12 am

Sample ID: Flush 002
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	6.12		µg/L	EPA 200.8	1.00	1	02/14/25	RBP	02/19/25 0:08	RBP
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Data Qualifiers:

T1 Turbidity is >1 and the sample was not digested.

Sample Receipt Conditions:

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

Report Generated On: 02/20/2025 4:08 pm
STL_Results Revision #3.0

5B03809
Effective: 05/29/2024





SUBURBAN TESTING LABS

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.

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

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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: 02/20/2025 4:08 pm 5B03809
STL_Results Revision #3.0 Effective: 05/29/2024





5B03809
Lauren Ulle



SUBURBAN
TESTING LABS

TESTING LABS

Chain of Custody Record

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

(Check One)

☒ Standard

☐ 24hr

☐ 48hr

☐ 72hr

☐ Other

Client Name:	Westchester Environmental LLC.		Project Name:	Warren Hills Regional SD	
Address:	1248 Wrights Lane	Phone:	610-431-7545		
	West Chester, PA 19380	Email:	cpiccininni@westchesterenviromental.com		
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
X First	WHHS-1FL-FP-Kitchen 514C- Water Pot	02/10/25	07:10 AM	CMP	001	Pb EPA 200.8	1	PW	G	P	H	Kitchen 514C- Water Pot Faucet
X Flush	WHHS-1FL-FP-Kitchen 514C- Water Pot - F	02/10/25	07:12 AM	CMP	002	Pb EPA 200.8	1	PW	G	P	H	Kitchen 514C- Water Pot Line

Relinquished by:

Received By:

Relinquished by:

Received in Lab By:

Date: 2/12/25

Time: 7:30 AM

Date: 2-12-25 Temp °C:

Time: 12:16 Acceptable Y / N

Date: 2-12-25 Temp °C:

Time: 1:05 Acceptable Y / N

Date: 2-12-25 Temp °C: 17.8°C

Time: 1:07 Acceptable Y / N

Date: 2-12-25 Temp °C: 17.8°C

Time: 1:07 Acceptable Y / N

Date: 2-12-25 Temp °C: 17.8°C

Time: 1:07 Acceptable Y / N

Sample Conditions	Matrix Key	Bottle Type Key
Submitted w/ COC ☒ Y / ☐ N	NPW = Non-Potable Water	P = Plastic
Number of containers match ☒ Y / ☐ N	Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as mg/l)	G = Glass
All containers intact ☒ Y / ☐ N	PW = Potable Water (not for SWDA compliance)	O = Other
Tests within holding times ☒ Y / ☐ N	SWDA = Safe Drinking Water Act Potable Sample	
40 mL VOA vials free of headspace? ☒ Y / ☐ N		
	Sample Type Key	Preservative Key
	G = Grab	H = Sodium
	8 HC = 8 Hour	Thiosulphate
	Composite	Acid
	24 HC = 24 Hour	A = Ascorbic
	Residence	H = HNO3
		C = HCl
		S =
		H2SO4
		OH = NaOH
		O = Other
		None
		Required
		NA =