

WHITMAN

Creating Solutions. Exceeding Expectations.

LEAD IN DRINKING WATER SAMPLING

FOR

7-9 WATCHUNG AVENUE
PLAINFIELD, NJ 07060

CRESTHAVEN ACADEMY
530 W 7TH STREET
PLAINFIELD, NJ 07060

PROJECT 24-01-13T

PERFORMED BY
WHITMAN

August 2, 2024

**LEAD IN DRINKING WATER SAMPLING
7-9 WATCHUNG AVENUE
PLAINFIELD, NJ 07060**

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ATTACHMENTS

Attachment 1 – Lead Sampling Results

**LEAD IN DRINKING WATER SAMPLING
7-9 WATCHUNG AVENUE
PLAINFIELD, NJ 07060**

1.0 PROJECT BACKGROUND

There are three ways that lead can contaminate drinking water in school facilities, the water source, the plumbing material, or the actual drinking water outlet fixture. Most sources of drinking water (e.g. ground and surface water) have no lead, or very low levels of lead (i.e., under 5 micrograms per liter [$\mu\text{g}/\text{l}$] or parts per billion [ppb]). Once the drinking water leaves the public water supply system or treatment plant, it comes into contact with piping and plumbing materials that may contain lead. Some lead may get into the water from the distribution system – the network of pipes that carry the water to homes, businesses, and schools in the community. Some communities have lead components in their distribution systems, such as lead joints in cast iron mains, service connections, pigtails, and goosenecks. Even though a public water supplier may deliver water that meets all Federal and State public health standards for lead, there may be lead in the drinking water because of the plumbing in the school facility. Interior plumbing, soldered joints, leaded brass fittings, and various drinking water outlets that contain lead materials are the primary contributors of lead in drinking water. It is also important to note that brass plumbing components contain lead. Since 1986, all plumbing materials must be “lead free”. Although there is an increased probability that a given plumbing component installed prior to 1986 could contain more lead than the newer components, the occurrence of lead in drinking water cannot be predicted solely based upon the age of the component or the school facility. The current law allows plumbing materials up to 0.25 percent lead to be labeled as “lead free”. However, prior to January 4, 2014, “lead free” allowed up to 8 percent lead content of the wetted surfaces of plumbing products including those labeled National Sanitation Foundation (NSF) certified. The best way to determine if a school might have elevated levels of lead in its drinking water is by testing the drinking water in that school. Testing facilitates an evaluation of the plumbing materials and helps target appropriate remedial action. It is a key step in understanding the problem, if there is one, and designing an appropriate response.

2.0 SAMPLING/SCREENING METHODOLOGY

2.1 Purpose

Lead in a water sample taken from an outlet can originate from the outlet fixture (e.g. the faucet, bubbler etc.), plumbing upstream of the outlet fixture (e.g. pipe, joints, valves, fittings etc.), or it can already be in the water that is entering the facility. Sample results are then compared to assist in determining the sources of lead contamination and the appropriate corrective measures. Prior to sampling, Whitman ensured that outlets deviating from normal usage were flushed 8-48 hours prior to sampling.

Initial first draw samples are taken from drinking water outlets and food preparation outlets (e.g., bubblers, kitchen faucets) in the facility. These samples determine the lead content of water sitting in water outlets that are used for drinking or cooking within the building(s).

2.2 NJDEP Limits

If initial first draw test results reveal lead concentrations greater than 15 µg/l (ppb) in a 250 mL sample for a given outlet, follow-up flush testing is required to determine if the lead contamination results are from the fixture or from interior plumbing.

3.0 LEAD IN DRINKING WATER SAMPLING RESULTS DISCUSSION

The summary of lead sample results is presented below. The sampling conducted complied with NJDEP protocol and all samples were submitted to Integrated Analytical Laboratories (NJDEP NELAP #14751) under a completed Chain of Custody Form.

Location	Sample ID #	Date	Time	Lead Result µg/L	NJDEP Lead Limit - µg/L
Morehouse Hallway Water Fountain	S1	7/16/2024	8:47 am	<1.00	15
Kitchen Prep Sink	S2	7/16/2024	8:50 am	<1.00	15
Nurse's Office Sink	S3	7/16/2024	8:54 am	<1.00	15
Art Room Middle Sink	S4	7/16/2024	8:56 am	<1.00	15
Michigan Hallway Water Fountain	S5	7/16/2024	8:59 am	<1.00	15
Field Blank	FB	7/16/2024	9:05 am	<1.00	15

4.0 **CONCLUSIONS**

All lead results were below the 15 µg/L New Jersey Action Level except the results listed in red.

The immediate remedial action required after an exceedance of the lead action level is to remove the water outlet from service. The District should review all the data results and plumbing profiles before deciding on remediation measures. Depending on the data and the plumbing profile some remediation measures may not be efficient at reducing the lead levels, so it is important to evaluate these.

Follow-up flush Samples are required if the Initial first-draw sample result is greater than the lead action level.

5.0 **LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS**

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Whitman's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Whitman is unaware and has not had the opportunity to evaluate.

The conclusions presented in this report are professional opinions based solely upon Whitman's visual observations of accessible areas, testing data, and current regulatory requirements. These conclusions are intended exclusively for the purpose stated herein, at the sites indicated, and for the project indicated.

No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

Feel free to contact me at 732-390-5858 with any questions or if further clarification is needed.

Sincerely,



John Beaupre
Senior Vice President

Attachments

ATTACHMENT 1
LEAD SAMPLE RESULTS

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012423423
LIMS Reference ID: AC23423
EMSL Customer ID: WHIT53

Attention: John Beaupre
 Whitman Companies, Inc. [WHIT53]
 100 Franklin Square Dr.Suite 200
 Somerset, NJ 08873
 (732) 390-5858
 jbeaupre@whitmanco.com

Project Name: Cresthaven Academy / 7-9 Watchung Ave
Customer PO: 24-01-13
EMSL Sales Rep: John LaFleur
Received: 07/17/2024 09:00
Reported: 07/31/2024 15:38

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: S1 Lims Reference ID: AC23423-01 Matrix: Drinking Water Sampled: 07/16/24 08:47:00									
Metals									
Lead	ND		1	1.00	µg/L	07/17/24 16:44	07/18/24 10:58	PL	EPA 200.8 (DA)/EPA 200.8
Sample: S2 Lims Reference ID: AC23423-02 Matrix: Drinking Water Sampled: 07/16/24 08:50:00									
Metals									
Lead	ND		1	1.00	µg/L	07/17/24 16:44	07/18/24 11:00	PL	EPA 200.8 (DA)/EPA 200.8
Sample: S3 Lims Reference ID: AC23423-03 Matrix: Drinking Water Sampled: 07/16/24 08:54:00									
Metals									
Lead	ND		1	1.00	µg/L	07/17/24 16:44	07/18/24 11:02	PL	EPA 200.8 (DA)/EPA 200.8
Sample: S4 Lims Reference ID: AC23423-04 Matrix: Drinking Water Sampled: 07/16/24 08:56:00									
Metals									
Lead	ND		1	1.00	µg/L	07/17/24 16:44	07/18/24 11:05	PL	EPA 200.8 (DA)/EPA 200.8
Sample: S5 Lims Reference ID: AC23423-05 Matrix: Drinking Water Sampled: 07/16/24 08:59:00									
Metals									
Lead	ND		1	1.00	µg/L	07/17/24 16:44	07/18/24 11:07	PL	EPA 200.8 (DA)/EPA 200.8
Sample: FB Lims Reference ID: AC23423-06 Matrix: Drinking Water Sampled: 07/16/24 09:05:00									
Metals									
Lead	ND		1	1.00	µg/L	07/17/24 16:44	07/18/24 11:09	PL	EPA 200.8 (DA)/EPA 200.8

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Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 200.8 in Drinking Water</i>	
Lead	NJDEP

List of Certifications

Code	Description	Number	Expires
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.



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Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC23423

Customer Information

Customer ID: _____

Company Name: Whitman

Contact Name: John Beagre

Street Address: 100 Franklin Square Dr. Suite 200

City, State, Zip: Somerset, NJ 08873

Phone: (732) 350-5858

Email(s) for Report: jbeagre@whitman.com

Country: US

Billing Information

Billing ID: _____

Company Name: _____

Billing Contact: Same

Street Address: _____

City, State, Zip: _____

Country: _____

Phone: _____

Email(s) for Invoice: _____

Purchase Order: 24-01-13

US State where samples collected: NJ

State of Connecticut (CT) must select project location:
 Residential (Non-Taxable) Commercial (Taxable) State Reporting Required? Yes No

PWS ID: _____

Other (Specify) Yes No

Samples Received Chilled? Yes No

Samples Collected by (Check One): EMSL CLIENT Other

Sampled By Signature: [Signature]

Sampled By Name: C. Graft

No. of Samples in Shipment: 6

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal.

Standard Turn-Around-Time: 2 Weeks 1 Week 4 Days 3 Days 2 Days 1 Day

List Test(s) Needed (Write in test below, then check on sample line:)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix	Preservative	Test								Comments			
						Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8				
51		<input checked="" type="checkbox"/>	7/10/24 8:27	W	2	<input checked="" type="checkbox"/>											
52		<input checked="" type="checkbox"/>	8:50	W	2	<input checked="" type="checkbox"/>											
53		<input checked="" type="checkbox"/>	8:51	W	2	<input checked="" type="checkbox"/>											
54		<input checked="" type="checkbox"/>	8:50	W	2	<input checked="" type="checkbox"/>											

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.):
* Drinking Water

Reporting Requirements: Results Only Results and QC Reduced Deliverables Hzresults EDD Excel Other (Describe Above)

Method of Shipment: _____

Relinquished by: [Signature] Date/Time: 7/14/24 10:22

Relinquished by: [Signature] Date/Time: 7/15/24 10:22am



EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC023423

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	List of Test(s) Needed (Write in test below, then check on sample line.)								Comments	
						Test 1:	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:		
55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8:59	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FB3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9:05	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Sample Condition Upon Receipt:

Method of Shipment:

Relinquished by: *[Signature]*

Relinquished by: *[Signature]*

Date/Time: 7/14/24 10:22

Date/Time: 7/14/24 10:22

Received by: *[Signature]*

Received by: *[Signature]*

Date/Time: 7/14/24 10:22

Date/Time: 7/17/24 9am

Controlled Document - COC-07 Chemistry R11 02/26/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.