

ENVIVOVISION 20-21 Wagaraw Road - Bldg. 35E, Fair Lawn, NJ 07410 PH (973) 636-9145 FAX (973) 636-9144 Email: Envirovision@optonline.net Email: Envirovision@optonline.net

CLIENT: Springfield.. Public Schools Project Number 21-358

Edward Walton Elementary School PROJECT: Lead (Pb) in Water Sampling

ADDRESS: 601 Mountain Avenue, Springfield NJ 07081

FIELD TECHNICIANS: Leonardo Bitondo REPORT DATE: September 15, 2021

As per your request, EnviroVision Consultants, Inc. was contracted by Springfield Public Schools to conduct Lead (Pb) in water sampling at the Walton Elementary School on August 27, 2021. The sample locations, in addition to a unique sample location code was determined/assigned by school district personnel. The school district performed the proper flushing of outlets prior to sampling and EnviroVision was instructed to collect only first draw samples for this sampling event. The school district's corresponding flushing logs should be attached to this report.

The facility was closed at the time of sampling in order to prevent occupants from utilizing any water outlets. After flushing, the water in the facility must remain motionless in the plumbing fixtures for a minimum of 8 hours, but no more than 48 hours. Cold water samples were collected in pre-cleaned high-density polyethylene (HDPE) 250mL wide mouth bottles.

Samples were analyzed at EMSL Analytical, Inc. in Cinnaminson, New Jersey *(NJDEP#03036), accredited in accordance with NELAC (National Environmental Laboratory Accreditation Conference). The analytical method utilized was inductively coupled plasma mass spectrometry ICP-MS (EPA 200.8).

Fourteen of the sixteen initially requested samples were collected from the Walton Elementary School. The remaining water outlets were either permanently out of service or disabled due to Covid-19 restrictions.

Results: Thirteen of the samples analyzed were either "None Detected" or less than the EPA established threshold for lead in drinking water. However, one of the samples was above the allowable limit established by The United States Environmental Protection Agency (USEPA) of 15 parts per billion (ppb). When a water outlet/faucet meets or exceeds the USEPA threshold, EnviroVision recommends that the outlet/faucet be immediately put out of service until the system can be further evaluated and proper remedial action is achieved.



Page 2 (Walton Elementary School)

Project Number 21-358

WALTON ELEMENTARY SCHOOL- LEAD (Pb) in Water Results of Concern

Outlet ID/Sample Number	Location	Results
DW9 (EW)	Room 18 Water Bubbler	21.6 ppb

Due to the elevated levels in the above outlets, we recommend that some or all of the following steps be taken at this time;

- > Closure of the affected water outlet(s) until the system can be further evaluated and proper remedial action is achieved.
- > Removal and replacement with non-lead containing fixtures.
- > Installation of filtration systems.
- ➤ Development of a Flushing Program for those taps high in lead and turbidity (this may include automatic flushing systems).
- Contact the local water utility company to obtain information about their corrosion control procedures and how it might affect the District's control plans.
- > Permanent closure of outlet(s).

Once the remedial action(s) are complete, follow up testing is required to ensure alterations/replacement to plumbing fixtures has lowered the amount of lead to acceptable levels.

I have also enclosed documents with detailed steps from the New Jersey Department of Environmental Protection regarding notifications that must be made, posting of results, and initial and long-term remedial requirements.

If you have any questions, or if we could be of any further assistance, please feel free to contact our office. EnviroVision looks forward to providing you with the service and attention to detail you have come to expect from us.

Sincerely,

EnviroVision Consultants, Inc.

Cathy DiNardo

Cathy DiNardo, Project Manager

Attached: Lab results, Associated data sheets, DEP Overview of Lead in Drinking Water at School Facilities, DEP Guidance for Selecting a Remedial Measure for Lead Removal



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: Leonardo Bitondo

9/14/2021

EnviroVision Consultants, Inc 20-21 Wagaraw Rd Bldg 35E Fair Lawn, NJ 07410

Phone: (973) 636-9145

Fax:

(973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/30/2021. The results are tabulated on the attached data pages for the following client designated project:

Edward Waltor School

The reference number for these samples is EMSL Order #012110094. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry Laboratory Director

lean al. Wholy



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted. NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



Method

METALS

Method

METALS

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (856) 303-2500 / (856) 858-4571

EnvChemistry2@emsl.com http://www.EMSL.com

EMSL Order: CustomerID:

012110094

RAMA51

CustomerPO: ProjectID:

Leonardo Bitondo **EnviroVision Consultants, Inc** 20-21 Wagaraw Rd Bldg 35E Fair Lawn, NJ 07410

Project: Edward Waltor School

Phone: Fax:

(973) 636-9145

Received:

(973) 636-9144 8/30/2021 09:00 AM

		Analytical Results
Client Sample Description	TLI-EW	Collected:
	Teachers Lounge Sink	
- Mannaga Court		

Prep **RL Units** Date & Analyst

8/27/2021

6:30:00 AM

Analysis Date & Analyst

012110094-0001

200.8 Lead DW4-EW Client Sample Description

Parameter

Collected:

1.00 µg/L

RL Units

8/27/2021

Lab ID:

VD

9/9/2021

Lab ID:

9/9/2021 19:00 VD 012110094-0002

Date & Analyst

Bubbler

6:30:00 AM

Prep Analysis

Method Parameter **METALS** 9/9/2021 ٧D 9/9/2021 19:04 VD 1.59 1.00 µg/L 200.8 Lead DW5-EW

Client Sample Description Bubbler

Collected:

8/27/2021

Lab ID:

012110094-0003

6:41:00 AM Prep

Result

2.71

Result

Result Parameter

RL Units

Date & Analyst

Date & Analyst

Analysis Date & Analyst

200.8

DW6-EW

Lead

2.04

1.00 µg/L

9/9/2021

VD

9/9/2021 19:05 VD

Client Sample Description

Bubbler

Collected:

8/27/2021 6:43:00 AM Lab ID:

012110094-0004

Analysis Prep RL Units Date & Analyst Date & Analyst Result Method Parameter

METALS

200.8 Lead 5.33

1.00 µg/L

9/9/2021

VD

VD 9/9/2021 19:06

Client Sample Description DW7-EW

Bubbler

Collected:

8/27/2021 6:46:00 AM Lab ID:

012110094-0005

Prep Analysis Result **RL Units** Date & Analyst Date & Analyst Parameter Method

METALS

200.8

1.00 µg/L

9/9/2021

VD 9/9/2021 19:11 VD



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 (856) 303-2500 / (856) 858-4571

http://www.EMSL.com EnvChemistry2@emsl.com EMSL Order: CustomerID:

012110094

RAMA51

CustomerPO: ProjectID:

Attn: Leonardo Bitondo **EnviroVision Consultants, Inc** 20-21 Wagaraw Rd Bldg 35E

Fair Lawn, NJ 07410 Project: Edward Waltor School

Phone: Fay.

(973) 636-9145 (973) 636-9144

Received:

8/30/2021 09:00 AM

Analytical Results

Client Sample Description

DW8-EW

Collected:

8/27/2021

Lab ID: 012110094-0006

Bubbler

RL Units

6:48:00 AM

Prep Analysis

METALS

Method

200.8

Lead

Parameter

Parameter

1.01

Result

1.00 µg/L

9/9/2021

VD 9/9/2021 19:12 VD

Client Sample Description

DW9-EW Bubbler

Collected:

8/27/2021 6:50:00 AM Lab ID:

Prep

Date & Analyst

Date & Analyst

012110094-0007

Analysis

Date & Analyst

Date & Analyst

Method

METALS

200.8

I ead

Lead

21.6

Result

1.00 µg/L

RL Units

9/10/2021

IC 9/13/2021 16:38

JW

Client Sample Description

DW10-EW Bubbler

Collected:

8/27/2021

012110094-0008

6:57:00 AM

Method

Parameter **METALS**

Result

RL Units

Prep Date & Analyst

Lab ID:

Analysis Date & Analyst

200.8

DW11-EW

8.80

1.00 µg/L

9/9/2021

9/9/2021 19:13 VD

Client Sample Description

Collected:

8/27/2021

Lab ID:

Lab ID:

012110094-0009

Bubbler

Parameter

7:00:00 AM

Prep

Method

METALS

ND

Result

RL Units

Date & Analyst

Analysis Date & Analyst

200.8

Client Sample Description

DW12-EW

1.00 µg/L

9/9/2021

9/9/2021 19:15 VD

8/27/2021 7:03:00 AM

Bubbler

Parameter

Collected:

012110094-0010

Method

200.8

Lead

Result

RL Units

Prep Date & Analyst

Analysis Date & Analyst

METALS

ND

1.00 µg/L

9/9/2021

9/9/2021 19:16 VD



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (856) 303-2500 / (856) 858-4571

http://www.EMSL.com EnvChemistry2@emsl.com EMSL Order: CustomerID:

012110094

RAMA51

CustomerPO: ProjectID:

Attn: Leonardo Bitondo **EnviroVision Consultants, Inc** 20-21 Wagaraw Rd Bldg 35E

Fair Lawn, NJ 07410

Project: Edward Waltor School

Fax: Received:

Phone:

(973) 636-9145 (973) 636-9144

8/30/2021 09:00 AM

Analytical Results

DW13-EW 8/27/2021 Client Sample Description Collected: Lab ID: 012110094-0011 7:05:00 AM Bubbler Prep Analysis Method **Parameter** Result **RL** Units Date & Analyst Date & Analyst **METALS** 1.28 1.00 µg/L 9/9/2021 VD 9/9/2021 19:18 200.8 Lead VD Client Sample Description WC3-EWBF Collected: 8/27/2021 Lab ID: 012110094-0012 Bottle Filler 7:09:00 AM Analysis Prep Method Parameter Result **RL Units** Date & Analyst Date & Analyst **METALS** ND 1.00 µg/L 9/9/2021 VD 9/9/2021 19:19 200.8 WC1-EWBF Collected: 8/27/2021 Lab ID: 012110094-0013 Client Sample Description 7:11:00 AM Bottle Filler Analysis Prep Date & Analyst Date & Analyst Method Parameter Result **RL Units METALS** 9/9/2021 VD 9/9/2021 19:23 VD ND 1.00 µg/L 200.8 Lead Collected: 8/27/2021 Lab ID: 012110094-0014 Client Sample Description **NSI-EW** 7:13:00 AM Nurse Sink Analysis Prep Date & Analyst Date & Analyst Method **Parameter** Result **RL Units** METALS 6.35 1.00 µg/L 9/9/2021 VD 9/9/2021 19:27 VD Lead 200.8 **BLANK** Collected: 8/27/2021 Lab ID: 012110094-0015 Client Sample Description 7:16:00 AM Blank Prep Analysis Date & Analyst Date & Analyst Result **RL Units** Method Parameter **METALS** 9/9/2021 9/9/2021 19:29 ND 1.00 µg/L

Definitions:

200.8

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

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

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

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

Control Sample Dec Time Performent HCL Section Secti	annennine kirjayanne aramatatatapi kirjayanin in ciaa assarannin in ciaa assarannin tarahannin tarahannin tarah					Preservative	Ē	List Test(s) Needed (Wine in test below, then check on sample line:)		st below, fi	en check o	n sample li	ne:)	
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				15.6% 15.6%		1 200								きる
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BY EMST, PISCATAWAY

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

Page 2 of 2

OrderID: 012110094 EMAIL EnvChemistry2@EMSL.com 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.'s Laboratory Terms and Conditions by Customer. Page 2 of 2 PHONE (800) 220-3675 SER SEL を対したる Comments EMSL Analytical, Inc. Cinnaminson, NJ 08077 **200**万 **200**万 PISCATAWAY 200 Rt. 130 N Date/Time Date/Time List Test(s) Needed (Write in test below, then check on sample line.) necessary if needed for additional sample information モんしょ (いっぱん ろんらく) Special Instructions and for Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Defection, etc.) AGREE TO ELECTRONIC SIGNATURE (By checking I consent to signing this Chain of Custody document by electronic signature.) Environmental Chemistry Chain of Custody EMSL Order Number / Lab Use Only SIBILODGY Received by Received by 2 ISBI V > ובשק וע Officer
Describe In
Special Instructions Preservative 3 O O 色れのの W=Water S=Soll A=Air SL=Sludge O=Other 3 3 Matrix 3 Date/Time: Date / Time Collected 8/27/R 声 Jordan Rrysk Grab entrolled Document - COC-07 Chemistry R11 02/26/2021 Method of Shipment Chap 254 Additional Pages of the Chain of Custody are only comp いることなる。 3 Client Sample ID のある Relinquished by:

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Page 3 Of

Attachment C - Drinking Water Outlet Inventory

(Complete for each school)

Address: 601 Mountain Ave

Name of School: Edward Walton

Grade Levels: pre k thru 2

Year School Constructed: 1956 Renovated/Additions: 2005

Individual school project officer Name/Signature.

Date Completed:

	Comments		<		
	Water Cooler Model				
led:	Make		Elkay	Elkay	Elkay
Date Completed.	Chiller (Y/N)	N O	Yes	No	No
	Motion Activated (Y/N)	No	0	No	No
	Aerator/ Screen (Y/N)	Yes	Yes	o N	No O
	Filter ⁴ Brass (Y/N) Fittings, Faucets or valves? (Y/N)	Yes	0 N	<u>8</u>	ON O
ne/Signature:	Filter ⁴ (Y/N)	<u>0</u>	o Z	8 8	No
	Signs of Corrosion 3 (Y/N)	o Z	ON ON	N _O	No
	Operational ² (Y/N)	Yes	ON	Yes	Yes
ct officer Nan	Code	TL1	WC2	DW3	DW4
Individual school project officer Name/Signature:	Location	Teachers Iounge	Hallway by RM5	Room 24	Room 23
Individue	Type	Teachers lounge cold outlet	Water	Water	Water bubbler
	#	_	8	က	4

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Áttachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

SPRINGFIELD PUBLIC SCHOOLS Sampling Plan

7 /04 /17	1/04/1/ Version 1				-															EZ H20	LZWSRI	اد	EZ H20	LZWSRI			
		Elkay		Elkay		Elkay		Elkay		Elkay		Elkay		Elkay		Elkay		Elkay		Elkay			Elkay		-	Unknow	c
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sampling Plan		No		2		<u>8</u>		9		8		8		% 		% 8		<u>8</u>		Yes			Yes		-	2	
sampi		9 8		9		2		9 Z		9		2		<u>8</u>		S N		8		S N			8 N			2	
CHOOLS		S S		8		8 N		% N		8 8		_S		No		9 N		8 N		Yes			Yes		;	Yes	
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SPRINGFIELD PUBLIC SCHOOLS	<u> </u>	No		2		2 N		% 		2		No		No		8		8 N		No			2			<u>2</u>	
<u> </u>		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes			Yes			Yes	
		DW5		DW6		DW7		DW8		DW9		DW10		DW11		DW12		DW13		WC3			WC1			NS1	
		Room 21		Room 22		Room 20		Room 19		Room 18		Room 17		Room 16		Room 15		Room 14		2 nd floor	hallway by	bathrooms	Hallway by	gymnasium		Nurses	office
		Water	Bubbler	Water	Bubbler	Water	bubbler	Water	bubbler	Water	Bubbler	Water	bubbler	Water	bubbler	Water	bubbler	Water	bubbler	Water	cooler		Water	Cooler		Nurses	office sink
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