



April 25, 2024

Mr. Johnny Mills
Operations Manager
1617 JFK Blvd., Suite 580
Philadelphia, PA 19103

RE: Lead (Pb) in Water Testing
Freire Charter School Wilmington
201 W 14th Street, Wilmington, DE 19801
IEC Project # 2024.059.4

Dear Mr. Mills:

Indoor Environmental Concepts, LLC (IEC) was retained by the Freire Charter Schools to perform an assessment and testing of the drinking water outlets servicing the Freire Charter School Wilmington for the presence of lead (Pb). The lead in water testing was performed pursuant to the regulations and guidance documents from Delaware's Division of Public Health and Delaware's Department of Education and the United States Environmental Protection Agency (EPA) protocols as recommended in their publication 3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance. The EPA developed the 3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance, which has been incorporated into this sampling protocol because the Agency is concerned about the potential for elevated lead levels in drinking water in schools.

Safe Drinking Water Compliance

The EPA recommends that schools collect 250 mL first-draw samples from water fountains, water bottle filler stations and potable water outlets for the analysis for lead (Pb). The EPA also recommends that these potable water outlets do not exceed 20 parts per billion (ppb) or 0.020 milligrams of lead per liter of water (mg/L). However, to guarantee that students have access to safe drinking water at Delaware schools, The action level used by the Delaware Codes is **15 parts per billion** (ppb) of lead. The action level of 15 ppb of lead or less was used in the interpretation of results for the samples collected and analyzed at the Freire Charter School Wilmington.

Lead Sampling Collection and Results

A trained technician collected samples from water outlets and the samples were sent to a certified laboratory for analysis. The samples were collected after an 8-to-18-hour stagnation period. All samples were taken before the facility opened and before any water was used by building occupants. Where practical and feasible, samples were first collected at drinking water outlets that were as close as possible to the building water main. Cold water lines were sampled when possible. All water samples were collected in laboratory supplied, pre-cleaned 250 milliliter (mL) bottles preserved with Nitric Acid

(HNO₃). The bottles were labeled with a unique sample identification number and the sample location and time sampled were recorded on the chain of custody form. All samples were sealed immediately after collection and delivered to the laboratory for the analysis of lead content via ICP/MS by EPA Method 200.8. A copy of the laboratory analytical reports, certifications, and chain of custody forms can be found as attachments to this report.

First-draw sampling was performed by IEC at forty-one (41) drinking water outlets on April 5, 2024. Of those outlets, all forty-one (41) were reported to have a lead concentration below the action level of 15 ppb.

In general, an ongoing flushing program should be implemented as a routine practice to improve the overall water quality at this facility. Flushing involves opening taps and letting the water run to remove water that has been standing in the interior pipes and/or the outlets. The flushing time can vary by the type of outlet being cleared. The degree to which flushing helps reduce lead levels can also vary depending upon the age and condition of the plumbing and the corrosiveness of the water. Flushing individual outlets immediately prior to use is recommended in conjunction with signage and flushing schedules. In addition, EPA recommends locating the faucet furthest away from the service line on each wing and floor of the building, opening the faucets, and let the water run for 10 minutes.

In summary, the assessment and testing performed indicate that the lead levels of the drinking water outlets servicing the school currently meet federal and State of Delaware guidelines, following the recommendations and provisions described herein.

Background

Historically, 15 ppb has been the EPA's stated action level, and an enforceable standard, for lead in drinking water under the [EPA's Lead and Copper Rule regulations](#). It was also the stated level of action in the 2020 grant awarded to DPH and DOE.

Given the health effects of lead, EPA advocates that any school conducting sampling for lead make public any test results. In addition, such schools should identify activities they are pursuing to correct any lead problems. Advice, suggestions, and samples to assist in the public notification process is available from the EPA in their 3Ts for Reducing Lead in Drinking Water in Schools. This publication is available online on the EPA's website.

Sincerely:

Indoor Environmental Concepts, LLC



Michael P. Menz, CIH, CHMM

President

Attachments

AC12943



Project Name: Freire Wilmington

File #: 2024.059.4

Laboratory: EMSL

Analysis: Lead in Drinking Water – 200.8/6020A

Turnaround Time: 2 week

Collected by: Michael Menz

Date: April 5, 2024

Transmitted by: Michael Menz

Date: 4/5/24 10:05pm

Received by: Chelene WI

Date: 4/5/24 10:05

Sample #	Location	Fixture Type	Time sampled
1	0405-01 Kitchen 115 B left sink	S	8:12
2	0405-02 Kitchen 115 B far right sink	S	8:13
3	0405-03 Café... sink o/s 115 B	S	8:14
4	0405-04 Café... bubbler chiller	WC	8:16
5	0405-05 Café... water bottle filler	BF	8:17
6	0405-06 101 Office sink	S	8:19
7	0405-07 First floor hallway bubbler chiller	WC	8:19
8	0405-08 First sink left women's bathroom 1 st floor	S	8:20
9	0405-09 Left sink men's bathroom 1 st floor	S	8:21
	0405-10 108 nurse's office sink LOCKED	S	
10	0405-11 Staff restroom 1 st floor sink	S	8:25
11	0405-12 2 nd floor womens bathroom	S	8:28
12	0405-13 Hallway 2 nd floor water fountain bottle filler W cooler	WC	8:29
13	0405-14 2 nd floor staff bathroom sink	S	8:30
14	0405-15 2 nd floor water fountain bubbler (across 206) cooler	WC	8:31
15	0405-16 2 nd floor water fountain bottle filler (across 206)	BF	8:32
16	0405-17 213 nurse sink	S	8:32
17	0405-18 2 nd floor men's bathroom	S	8:33
18	0405-19 3 rd floor water fountain bubbler (next to elevator) cooler Bubbler	WC (B)	8:34

Michael Menz 4/05/24 9:30am of 2
 RORY PWS. (WI)

AC12943

Freire Wilmington

19	0405-20	3 rd floor staff bathroom sink	S	8:37
20	0405-21	3 rd floor hallway water fountain ^{water cooler} bubbler (across 306)	WC	8:31
21	0405-22	3 rd floor hallway water fountain bottle filler (across 306)	BF	8:38
	0405-23	309 <u>science lab</u>		
22	0405-24	3 rd floor men's bathroom	S	8:39
23	0405-25	3 rd floor women's bathroom	S	8:40
24	0405-26	4 th floor women's bathroom	S	8:42
25	0405-27	4 th floor hallway water fountain ^{cup filler} bubbler (next to elevator)	B	8:43
	0405-28	4th floor hallway water fountain bottle filler (next to elevator)		
26	0405-29	4 th floor staff bathroom sink	S	8:45
27	0405-30	4 th floor men's bathroom	S	8:46
28	0405-31	4 th floor water fountain ^{water cooler} bubbler (across from 406)	WC	8:47
29	0405-32	4 th floor hallway water fountain bottle filler (across from 406)	BF	8:47
30	0405-33	gym; women's bathroom	S	8:51
31	0405-34	gym men's bathroom	S	8:52
32	0405-35	gym, disabled person bathroom	S	8:53
33	0405-36	gym, right water cooler	WC	8:54
34	0405-37	gym left water cooler	WC	8:55
35	0405-38	bottler filler	BF	8:56
36	0405-39	Locker room #1	S	8:58
37	0405-40	Locker room #2	S	8:59
38	0405-41	main bldg. ground level water cooler	WS	9:03
39	0405-42	" " " " women lavatory	S	9:04
40	0405-43	" " " " men lavatory	S	9:06
41	0405-44	men lavatory, inside left	S	9:07

Email results to:

labresults@indoorenvconcepts.comPage 2 of 2

**EMSL Analytical, Inc.**

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

EMSL Order ID: 012412943
LIMS Reference ID: AC12943
EMSL Customer ID: INDA25

Attention: Michael Menz
 Indoor Environmental Concepts, LLC [INDA25]
 117 N Black Horse Pike
 Runnemede, NJ 08078
 (856) 628-6020
 mpmenz@indoorenvconcepts.com

Project Name: Freire Wilmington
Customer PO:
EMSL Sales Rep: Gary Perlmutter
Received: 04/05/2024 09:30
Reported: 04/19/2024 17:20

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 0405-01/Kitchen 115 B left sink Lims Reference ID: AC12943-01 Matrix: Drinking Water Sampled: 04/05/24 08:12:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:21	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-02/Kitchen 115 B far right sink Lims Reference ID: AC12943-02 Matrix: Drinking Water Sampled: 04/05/24 08:13:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:26	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-03/Cafe....sink o/s 115 B Lims Reference ID: AC12943-03 Matrix: Drinking Water Sampled: 04/05/24 08:14:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:28	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-04/Cafe....chiller Lims Reference ID: AC12943-04 Matrix: Drinking Water Sampled: 04/05/24 08:16:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:30	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-05/Cafe....water bottle filler Lims Reference ID: AC12943-05 Matrix: Drinking Water Sampled: 04/05/24 08:17:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:32	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-06/101 Office sink Lims Reference ID: AC12943-06 Matrix: Drinking Water Sampled: 04/05/24 08:19:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:40	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-07/First floor hallway chiller Lims Reference ID: AC12943-07 Matrix: Drinking Water Sampled: 04/05/24 08:19:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/16/24 11:27	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-08/Women's bathroom 1st floor Lims Reference ID: AC12943-08 Matrix: Drinking Water Sampled: 04/05/24 08:20:00									
Metals									
Lead	2.12		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:46	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-09/Men's bathroom 1st floor Lims Reference ID: AC12943-09 Matrix: Drinking Water Sampled: 04/05/24 08:21:00									
Metals									
Lead	1.06		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:48	LXK	EPA 200.8 (DA)/EPA 200.8

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Analytical Results (Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 0405-11/Staff restroom 1st floor sink									
				Lims Reference ID:	AC12943-10	Matrix: Drinking Water		Sampled: 04/05/24 08:25:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:50	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-12/2nd floor womens bathroom									
				Lims Reference ID:	AC12943-11	Matrix: Drinking Water		Sampled: 04/05/24 08:28:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:52	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-13/Hallway 2nd floor water cooler									
				Lims Reference ID:	AC12943-12	Matrix: Drinking Water		Sampled: 04/05/24 08:29:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 19:58	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-14/2nd floor staff bathroom sink									
				Lims Reference ID:	AC12943-13	Matrix: Drinking Water		Sampled: 04/05/24 08:30:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:00	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-15/2nd floor water fountain (across 206) cooler									
				Lims Reference ID:	AC12943-14	Matrix: Drinking Water		Sampled: 04/05/24 08:31:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:10	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-16/2nd floor water fountain bottle filler (across 206)									
				Lims Reference ID:	AC12943-15	Matrix: Drinking Water		Sampled: 04/05/24 08:32:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:12	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-17/213 nurse sink									
				Lims Reference ID:	AC12943-16	Matrix: Drinking Water		Sampled: 04/05/24 08:32:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:14	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-18/2nd floor men's bathroom									
				Lims Reference ID:	AC12943-17	Matrix: Drinking Water		Sampled: 04/05/24 08:33:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:16	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-19/3rd floor water fountain (next to elevator) bubbler									
				Lims Reference ID:	AC12943-18	Matrix: Drinking Water		Sampled: 04/05/24 08:34:00	
Metals									

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Analytical Results (Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 0405-19/3rd floor water fountain (next to elevator) bubbler (Continued)									
			Lims Reference ID:		AC12943-18	Matrix: Drinking Water		Sampled: 04/05/24 08:34:00	
Metals (Continued)									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:19	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-20/3rd floor staff bathroom sink									
			Lims Reference ID:		AC12943-19	Matrix: Drinking Water		Sampled: 04/05/24 08:37:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:21	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-21/3rd floor hallway water fountain water cooler (across 306)									
			Lims Reference ID:		AC12943-20	Matrix: Drinking Water		Sampled: 04/05/24 08:37:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 13:50	04/15/24 20:23	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-22/3rd floor hallway water fountain bottle filler (across 306)									
			Lims Reference ID:		AC12943-21	Matrix: Drinking Water		Sampled: 04/05/24 08:38:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:39	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-24/3rd floor men's bathroom									
			Lims Reference ID:		AC12943-22	Matrix: Drinking Water		Sampled: 04/05/24 08:39:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:45	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-25/3rd floor women's bathroom									
			Lims Reference ID:		AC12943-23	Matrix: Drinking Water		Sampled: 04/05/24 08:40:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:47	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-26/4th floor women's bathroom									
			Lims Reference ID:		AC12943-24	Matrix: Drinking Water		Sampled: 04/05/24 08:42:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:49	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-27/4th floor hallway water fountain cup filler (next to elevator)									
			Lims Reference ID:		AC12943-25	Matrix: Drinking Water		Sampled: 04/05/24 08:43:00	
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:51	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-29/4th floor staff bathroom sink									
			Lims Reference ID:		AC12943-26	Matrix: Drinking Water		Sampled: 04/05/24 08:45:00	

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Analytical Results (Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 0405-29/4th floor staff bathroom sink (Continued) Lims Reference ID: AC12943-26 Matrix: Drinking Water Sampled: 04/05/24 08:45:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:57	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-30/4th floor men's bathroom Lims Reference ID: AC12943-27 Matrix: Drinking Water Sampled: 04/05/24 08:46:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 20:59	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-31/4th floor water fountain water cooler (across from 406) Lims Reference ID: AC12943-28 Matrix: Drinking Water Sampled: 04/05/24 08:47:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:01	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-32/4th floor hallway water fountain bottle filler (across from 406) Lims Reference ID: AC12943-29 Matrix: Drinking Water Sampled: 04/05/24 08:47:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:03	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-33/Lobby gym women's bathroom Lims Reference ID: AC12943-30 Matrix: Drinking Water Sampled: 04/05/24 08:51:00									
Metals									
Lead	7.03		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:06	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-34/Lobby gym men's bathroom Lims Reference ID: AC12943-31 Matrix: Drinking Water Sampled: 04/05/24 08:52:00									
Metals									
Lead	3.03		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:08	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-35/Lobby gym disabled person bathroom Lims Reference ID: AC12943-32 Matrix: Drinking Water Sampled: 04/05/24 08:53:00									
Metals									
Lead	3.78		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:14	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-36/Lobby gym right water cooler Lims Reference ID: AC12943-33 Matrix: Drinking Water Sampled: 04/05/24 08:54:00									
Metals									
Lead	1.22		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:16	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-37/Lobby gym left water cooler Lims Reference ID: AC12943-34 Matrix: Drinking Water Sampled: 04/05/24 08:55:00									

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Analytical Results (Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 0405-37/Lobby gym left water cooler (Continued) Lims Reference ID: AC12943-34 Matrix: Drinking Water Sampled: 04/05/24 08:55:00									
Metals									
Lead	1.60		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:22	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-38/Lobby gym left bottle filler Lims Reference ID: AC12943-35 Matrix: Drinking Water Sampled: 04/05/24 08:57:00									
Metals									
Lead	1.54		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:24	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-39/Locker room #1 Lims Reference ID: AC12943-36 Matrix: Drinking Water Sampled: 04/05/24 08:58:00									
Metals									
Lead	2.90		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:26	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-40/Locker room #2 Lims Reference ID: AC12943-37 Matrix: Drinking Water Sampled: 04/05/24 08:59:00									
Metals									
Lead	5.09		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:28	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-41/Main bldg ground level water cooler Lims Reference ID: AC12943-38 Matrix: Drinking Water Sampled: 04/05/24 09:03:00									
Metals									
Lead	<1.00		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:30	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-42/Main bldg ground level women lavatory Lims Reference ID: AC12943-39 Matrix: Drinking Water Sampled: 04/05/24 09:04:00									
Metals									
Lead	14.9		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:32	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-43/Main bldg ground level men lavatory Lims Reference ID: AC12943-40 Matrix: Drinking Water Sampled: 04/05/24 09:06:00									
Metals									
Lead	7.46		1	1.00	µg/L	04/10/24 16:33	04/15/24 21:34	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: 0405-44/Main bldg ground level men lavatory inside left Lims Reference ID: AC12943-41 Matrix: Drinking Water Sampled: 04/05/24 09:07:00									
Metals									
Lead	10.9		1	1.00	µg/L	04/11/24 11:43	04/11/24 14:41	LXK	EPA 200.8 (DA)/EPA 200.8



EMSL Analytical, Inc.

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

EMSL Order ID: 012412943
LIMS Reference ID: AC12943
EMSL Customer ID: INDA25

Attention: Michael Menz
Indoor Environmental Concepts, LLC [INDA25]
117 N Black Horse Pike
Runnemede, NJ 08078
(856) 628-6020
mpmenz@indoorenvconcepts.com

Project Name: Freire Wilmington

Customer PO:
EMSL Sales Rep: Gary Perlmutter

Received: 04/05/2024 09:30

Reported: 04/19/2024 17:20

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

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

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."