Public Schools of Edison Township

312 Pierson Avenue * Edison, New Jersey 08837
Telephone (732) 452-4550 Fax (732) 452-4555

Bernard F. Bragen, Jr., Ed.D.
Superintendent of Schools

Ann Kluck
Assistant Business Administrator/
Board Secretary

June 27, 2022

Benjamin Franklin Elementary School
2485 Woodbridge Ave.
Edison, NJ 08817

Dear Benjamin Franklin Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, Edison Township Public School District tested our schools' drinking water for lead.

In accordance with the Department of Education regulations, Benjamin Franklin Elementary School will implement immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]). This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. Accordingly, all sources found to contain action levels were immediately taken out of service.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within Edison Township Public School District. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the sixteen samples taken, all but one tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).

The table below identifies the drinking water outlets that tested above the 15 µg/l for lead, the actual lead level, and what temporary remedial action Edison Township Public School District has taken to reduce the levels of lead at these locations.

Sample Location	First Draw Result in µg/l (ppb)	LCR Action Level (1) (ppb)	Remedial Action
Water fountain across Room 19 (R), Outlet #54A, Sample #14 FD	1034	15.0	The fixtures were taken out of service and new plumbing materials were ordered to alleviate the above threshold readings. The fixtures will remain out of service until future testing provides results below action level.

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes, and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8:30 a.m. and 4:00 p.m. and are also available on our website at **www.edison.k12.nj.us**. For more information about water quality in our schools, contact William Kolibas, Director of Buildings & Grounds at (732) 452-4550.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at **www.epa.gov/lead**, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,

Bernard F. Bragen, Jr., Ed.D.
Superintendent of Schools

OMEGA
ENVIRONMENTAL SERVICES, INC

William Kolibas
Public Schools of Edison Township
312 Pierson Avenue
Edison, NJ 08837

12/13/2021

RE: [Benjamin Franklin Elementary #11 - 2485 Woodbridge Avenue] – Lead in Water Summary Table {*Omega Project #: 21-1275-4*}

Samples collected on 11/18/2021.

RESULTS TABLE SUMMARY:

Sample #	Outlet #/Location	1st Draw (FD) Or Flush (FL)	Lead	
			Results (Ppb)	LCR Action Level (1) (Ppb)
1FD	01/Water Fountain Near (R) 148	FD	2.93	15
2 FD	02/Water Fountain Near (L) 148	FD	5.55	15
3 FD	03/Kitchen Sink (Right)	FD	1.36	15
4 FD	05/Water Fountain Next to Faculty Room (R)	FD	3.33	15
5 FD	05/Water Fountain Next to Faculty Room (L)	FD	1.96	15
6 FD	05A/Kitchen Sink Faculty Room	FD	ND	15
7 FD	08/Kitchen Sink Main Office	FD	2.12	15
8 FD	12/Water Fountain Nurse's Office	FD	6.55	15
9 FD	22/Water Fountain Near 109	FD	1.08	15
10 FD	31A/Water Fountain Near 139 (R)	FD	2.25	15
11 FD	25/Water Fountain Across 108 (R)	FD	2.53	15
12 FD	25/Water Fountain Across 108 (L)	FD	1.68	15
13 FD	54A/Water Fountain Across 119 (L)	FD	2.64	15
14 FD	54A/Water Fountain Across 119 (R)	FD	1034	15
15	Field Blank	Blank	ND	15
16 FD	Kitchen Sink (L)	FD	1.18	15

Take any outlets with results above 15.5 ppb out of service pending further investigation/remediation.

(1) EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.
FD – First Draw Sample
FL – Flush Sample (30 sec)
NA – Not Analyzed

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Lab**

12/3/2021

Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 11/24/2021. The results are tabulated on the attached data pages for the following client designated project:

Edison BOE/ Franklin / 21-1275-4

The reference number for these samples is EMSL Order #012113605. 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

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

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:	012113605
CustomerID:	OMEG50
CustomerPO:	21-1275-4
ProjectID:	

Attn: **Lab**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797
Received: 11/24/2021 09:00 AM

Project: **Edison BOE/ Franklin / 21-1275-4**

Analytical Results

Client Sample Description 1 FD
Water Fountain Near ® 148 / Filter Attached
Collected: 11/18/2021 7:10:00 AM
Lab ID: *012113605-0001*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	2.93	1.00	µg/L	11/29/2021 KB	11/30/2021 01:31 KB

Client Sample Description 2 FD
Water Fountain Near (L) 148 / Filter Attached
Collected: 11/18/2021 7:11:00 AM
Lab ID: *012113605-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	5.55	1.00	µg/L	11/29/2021 KB	11/30/2021 01:35 KB

Client Sample Description 3 FD
Kitchen Sink (Right)
Collected: 11/18/2021 6:41:00 AM
Lab ID: *012113605-0003*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.36	1.00	µg/L	11/29/2021 IC	11/30/2021 19:03 JW

Client Sample Description 4 FD
Water Fountain Next to Faculty Room ®
Collected: 11/18/2021 6:38:00 AM
Lab ID: *012113605-0004*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	3.33	1.00	µg/L	11/29/2021 KB	11/30/2021 01:37 KB

Client Sample Description 5 FD
Water Fountain Next to Faculty Room (L)
Collected: 11/18/2021 6:37:00 AM
Lab ID: *012113605-0005*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.96	1.00	µg/L	11/29/2021 IC	11/30/2021 19:06 JW

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:	012113605
CustomerID:	OMEG50
CustomerPO:	21-1275-4
ProjectID:	

Attn: **Lab**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797
Received: 11/24/2021 09:00 AM

Project: **Edison BOE/ Franklin / 21-1275-4**

Analytical Results

Client Sample Description 6 FD
Kitchen Sink Faculty Room
Collected: 11/18/2021 6:40:00 AM
Lab ID: *012113605-0006*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	ND	1.00	µg/L	11/29/2021	IC	11/30/2021 19:18	JW

Client Sample Description 7 FD
Kitchen Sink Main Office
Collected: 11/18/2021 6:47:00 AM
Lab ID: *012113605-0007*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	2.12	1.00	µg/L	11/29/2021	IC	11/30/2021 19:20	JW

Client Sample Description 8 FD
Water Fountain Nurse's Office
Collected: 11/18/2021 6:51:00 AM
Lab ID: *012113605-0008*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	6.55	1.00	µg/L	11/29/2021	IC	11/30/2021 19:23	JW

Client Sample Description 9 FD
Water Fountain Near 109 / Filter Attached
Collected: 11/18/2021 6:53:00 AM
Lab ID: *012113605-0009*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	1.08	1.00	µg/L	11/29/2021	KB	11/30/2021 01:38	KB

Client Sample Description 10 FD
Water Fountain Near 139 ®
Collected: 11/18/2021 7:07:00 AM
Lab ID: *012113605-0010*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	2.25	1.00	µg/L	11/29/2021	KB	11/30/2021 01:40	KB

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:	012113605
CustomerID:	OMEG50
CustomerPO:	21-1275-4
ProjectID:	

Attn: **Lab**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797
Received: 11/24/2021 09:00 AM

Project: **Edison BOE/ Franklin / 21-1275-4**

Analytical Results

Client Sample Description 11 FD Water Fountain Across 108 ® ***Collected:*** 11/18/2021 6:56:00 AM ***Lab ID:*** *012113605-0011*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	2.53	1.00	µg/L	11/29/2021	IC	11/30/2021 19:25	JW

Client Sample Description 12 FD Water Fountain Across 108 (L) ***Collected:*** 11/18/2021 6:58:00 AM ***Lab ID:*** *012113605-0012*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	1.68	1.00	µg/L	11/29/2021	KB	11/30/2021 01:41	KB

Client Sample Description 13 FD Water Fountain Across 119 (L) ***Collected:*** 11/18/2021 6:59:00 AM ***Lab ID:*** *012113605-0013*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	2.64	1.00	µg/L	11/29/2021	IC	11/30/2021 19:27	JW

Client Sample Description 14 FD Water Fountain Across 119 ® ***Collected:*** 11/18/2021 7:01:00 AM ***Lab ID:*** *012113605-0014*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	103 D	2.00	µg/L	11/29/2021	IC	11/30/2021 19:37	JW

Client Sample Description 15 Blank ***Collected:*** 11/18/2021 ***Lab ID:*** *012113605-0015*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
METALS								
200.8	Lead	ND	1.00	µg/L	11/29/2021	IC	11/30/2021 19:32	JW

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:	012113605
CustomerID:	OMEG50
CustomerPO:	21-1275-4
ProjectID:	

Attn: **Lab**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797
Received: 11/24/2021 09:00 AM

Project: **Edison BOE/ Franklin / 21-1275-4**

Analytical Results

Client Sample Description 16 FD Kitchen Sink (L) ***Collected:*** 11/18/2021 6:43:00 AM ***Lab ID:*** *012113605-0016*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.18	1.00	µg/L	11/29/2021 KB	11/30/2021 01:43 KB

Definitions:
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

OrderID: 012113605

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

012113605

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: Cinnaminson.sedi.lab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Omega Environmental	Company Name:	Omega Environmental
Contact Name:		Billing Contact:	
Street Address:	280 Huyler Street	Street Address:	280 Huyler Street
City, State, Zip:	S. Hackensack, NJ 07606	City, State, Zip:	S. Hackensack, NJ 07606
Country:	USA	Country:	USA
Phone:	201-489-8700	Phone:	201-489-8700
Email(s) for Report:	Lab@omega-env.com	Email(s) for Invoice:	ap@omega-env.com

Project Information

Project Name/No:	Edison BOE/ Franklin / 21-1275-4	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	NJ
State of Connecticut (CT) must select project location:	☐ Commercial (Taxable) ☐ Residential (Non-Taxable)		
Sampled By Name:	Keri-Dean Scarlett	Sampled By Signature:	Keri-Dean Scarlett
No. of Samples in Shipment:	16		

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☑ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm²	SW 846-7000B	Flame Atomic Absorption	0.003% (30ppm)	☐
*Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
AIR	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater Unpreserved / Preserved with HNO3 ☐ pH<2	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved / Preserved with HNO3 ☑ pH<2 11/24	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☑
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
Samples begin on the following page			

Method of Shipment: Pickup

Sample Condition Upon Receipt:

Relinquished by: Keri-Dean Scarlett	Date/Time: 11/18/21 8:30AM	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by: Jose Courier Calypso 11/24/21 9:00	Date/Time 11/23/21 9 pm

Controlled Document - COC-25 Lead R16 4/19/2021

*8010C Available Upon Request

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

16 EC

012113605

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

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

Franklin 21-1275-4

Sample Number	Outlet #	Sample Location	Volume / Area	Date / Time Sampled	Notes
1FD	01	Water Fountain Near (R) 148	250ML	11/18/21 7:10	Filter attached
2 FD	02	Water Fountain Near (L) 148		7:11	
3 FD	03	Kitchen Sink (Right)		6:41	
4 FD	05	Water Fountain Next to Faculty Room (R)		6:38	
5 FD	05	Water Fountain Next to Faculty Room (L)		6:37	
6 FD	05A	Kitchen Sink Faculty Room		6:40	
7 FD	08	Kitchen Sink Main Office		6:47	
8 FD	12	Water Fountain Nurse's Office		6:51	
9 FD	22	Water Fountain Near 109		6:53	Filter attached
10 FD	31A	Water Fountain Near 139 (R)		7:01	
11 FD	25	Water Fountain Across 108 (R)		6:56	
12 FD	25	Water Fountain Across 108 (L)		6:58	
13 FD	54A	Water Fountain Across 119 (L)		6:59	
14 FD	54A	Water Fountain Across 119 (R)		7:01	
15		Blank			
16 FD		Kitchen Sink (L)		6:53	

Method of Shipment:

Sample Condition Upon Receipt:

Relinquished by: [signature]	Date/Time: 11/18/21 8:30AM	Received by:	Date/Time	
Relinquished by:	Date/Time:	Received by: [signature]	Date/Time 11/22/21 9am	

OrderID: 012113605