



LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Jim Schwar
Franklin Township Board of Education
226 Quakertown Road
P.O. Box 368
Quakertown, NJ 08868

SITE INVESTIGATED: Elementary School
226 Quakertown Road
Quakertown, NJ 08868

ASSESSMENT BY: Kyle Brown
Omega Environmental Services, Inc.
280 Huyler Street
South Hackensack, NJ 07606

INVESTIGATION
CONDUCTED: 4/18/17

DATE OF REPORT: 5/8/17

(Omega Project # 16-27009)

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EXECUTIVE SUMMARY:

The Franklin Township Board of Education requested lead in water testing of potable water outlets at Franklin Township Elementary School, 226 Quakertown Road, Quakertown, NJ 08868.

Previous Testing

No information related to previous testing was available.

Recent Testing (4/18/17)

In order to assess the building water outlets a full testing of all potable outlets was performed on April 18, 2017.

Reportedly the outlets were not flushed or used on the day of testing.

First draw samples were collected of 31 water fountains and sinks.

All results were below the Lead and Copper action level of 15 ppb.

See Section 3 Discussion of Results

1 RESULTS TABLE:

Sample #	Location	1 st draw (FD)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
1	Basement Kitchen	FD	ND	15
2	APR Theater L	FD	ND	15
3	APR Theater R	FD	ND	15
4	In 153	FD	1.22	15
5	Corridor at 153	FD	3.83	15
6	In 152	FD	3.76	15
7	In 149	FD	ND	15
8	In 150	FD	1.22	15
9	Corridor at 149	FD	2.64	15
10	In 148	FD	1.07	15
11	In 151	FD	1.09	15
12	Corridor at 151	FD	1.12	15
13	In 141	FD	ND	15
14	Kitchen (left to right excluding handwashing sink)	FD	1.20	15
15	Kitchen (left to right excluding handwashing sink)	FD	1.78	15
16	Kitchen (left to right excluding handwashing sink)	FD	1.28	15
17	Kitchen (left to right excluding handwashing sink)	FD	1.31	15
18	Kitchen (left to right excluding handwashing sink)	FD	3.15	15
19	Exterior outside kitchen	FD	ND	15
20	Corridor 118 L	FD	ND	15
21	Corridor 118 R	FD	ND	15
22	In 110	FD	ND	15
23	Nurse Office 103	FD	ND	15
24	In 170	FD	ND	15
25	In 161	FD	ND	15
26	Corridor at 223 L	FD	ND	15
27	Corridor at 223 R	FD	ND	15
28	Corridor at 209 L	FD	1.21	15
29	Corridor at 209 R	FD	1.17	15
30	Corridor at 201 L	FD	1.02	15
31	Corridor at 201 R	FD	ND	15
32	Blank	FD	ND	15

⁽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)

ND – Indicates that the analyte was not detected at the reporting limit

2 SAMPLING METHODOLOGY:

First Draw Samples - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO₃) as a preservative.

The samples were packaged in a cooler and shipped to EMSL Analytical, Inc, Cinnaminson, NJ for total lead in potable water analysis (method E200.8 IOC).

3 DISCUSSION OF RESULTS:

All lead in water results were below the EPA Lead and Copper action level of 15 ppb. No analysis was performed for copper in water.

4 RECOMMENDATIONS:

Short term:

- No further action is recommended in regards to outlet testing.

Long Term:

- Repeat full building testing on an annual basis. Generally this should be performed in August prior to the start of the school season.
- Develop a Lead in Water Management Plan in accordance with the 2006 EPA 3Ts for Reducing Lead in Drinking Water in Schools.

A. Lead in Water Laboratory Reports



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

Michael Levay
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

5/3/2017

Phone: (201) 489-8700

Fax: (201) 489-8797

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/24/2017. The results are tabulated on the attached data pages for the following client designated project:

17-27009

The reference number for these samples is EMSL Order #011703121. 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's 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.

**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: 011703121
 CustomerID: OMEG50
 CustomerPO:
 ProjectID:

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

Phone: (201) 489-8700
 Fax: (201) 489-8797
 Received: 04/24/17 9:00 AM

Project: 17-27009

Analytical Results

Client Sample Description		Collected:	Lab ID:				
1-Bsmt Kitchen- FD		4/18/2017	011703121-0001				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
2-APR Theater L-FD		4/18/2017	011703121-0002				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
3- APR Theater R- FD		4/18/2017	011703121-0003				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
4- In 153- FD		4/18/2017	011703121-0004				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.22	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
5- Corr @ 153- FD		4/18/2017	011703121-0005				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	3.83	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
6- In 152- FD		4/18/2017	011703121-0006				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	3.76	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
7- In 149- FD		4/18/2017	011703121-0007				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		Collected:	Lab ID:				
8- In 150- FD		4/18/2017	011703121-0008				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst

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200 Route 130 North, Cinnaminson, NJ 08077
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EMSL Order: 011703121
 CustomerID: OMEG50
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Attn: **Michael Levay**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
 Fax: (201) 489-8797
 Received: 04/24/17 9:00 AM

Project: 17-27009

Analytical Results

Client Sample Description		Collected:	Lab ID:				
8- In 150- FD		4/18/2017	011703121-0008				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.22	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
9- Corr @ 149- FD		4/18/2017	011703121-0009				
200.8	Lead	2.64	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
10- In 148- FD		4/18/2017	011703121-0010				
200.8	Lead	1.07	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
11- In 151- FD		4/18/2017	011703121-0011				
200.8	Lead	1.09	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
12- Corr @ 151- FD		4/18/2017	011703121-0012				
200.8	Lead	1.12	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
13- In 141- FD		4/18/2017	011703121-0013				
200.8	Lead	ND	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
14- Kitchen (Left to Right)- FD		4/18/2017	011703121-0014				
200.8	Lead	1.20	1.00 µg/L	4/25/2017	AE	4/26/2017	EG
15- Kitchen (Left to Right)- FD		4/18/2017	011703121-0015				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst

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280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
 Fax: (201) 489-8797
 Received: 04/24/17 9:00 AM

Project: 17-27009

Analytical Results

Client Sample Description		15- Kitchen (Left to Right)- FD	Collected:	4/18/2017	Lab ID:	011703121-0015		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.78	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		16- Kitchen (Left to Right)- FD	Collected:	4/18/2017	Lab ID:	011703121-0016		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.28	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		17- Kitchen (Left to Right)- FD	Collected:	4/18/2017	Lab ID:	011703121-0017		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.31	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		178- Kitchen (Left to Right)- FD	Collected:	4/18/2017	Lab ID:	011703121-0018		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	3.15	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		19- Exterior Outside Kitchen- FD	Collected:	4/18/2017	Lab ID:	011703121-0019		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		20- Corr @ 118 L- FD	Collected:	4/18/2017	Lab ID:	011703121-0020		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		21- Corr @ 118 R- FD	Collected:	4/18/2017	Lab ID:	011703121-0021		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		22- In 110- FD	Collected:	4/18/2017	Lab ID:	011703121-0022		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst

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Phone: (201) 489-8700
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Project: 17-27009

Analytical Results

Client Sample Description		22- In 110- FD	Collected:	4/18/2017	Lab ID:	011703121-0022		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		23- Nurse Office 103- FD	Collected:	4/18/2017	Lab ID:	011703121-0023		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		24- In 170- FD	Collected:	4/18/2017	Lab ID:	011703121-0024		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		25- In 161- FD	Collected:	4/18/2017	Lab ID:	011703121-0025		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		26- Corr @ 223 L- FD	Collected:	4/18/2017	Lab ID:	011703121-0026		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		27- Corr @ 223 R- FD	Collected:	4/18/2017	Lab ID:	011703121-0027		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		28- Corr @ 209 L- FD	Collected:	4/18/2017	Lab ID:	011703121-0028		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.21	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Description		29- Corr @ 209 R- FD	Collected:	4/18/2017	Lab ID:	011703121-0029		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
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<http://www.EMSL.com> EnvChemistry2@emsl.com

EMSL Order: 011703121
 CustomerID: OMEG50
 CustomerPO:
 ProjectID:

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

Phone: (201) 489-8700
 Fax: (201) 489-8797
 Received: 04/24/17 9:00 AM

Project: 17-27009

Analytical Results

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
<i>Client Sample Description</i> 29- Corr @ 209 R- FD					<i>Collected:</i> 4/18/2017	<i>Lab ID:</i> 011703121-0029		
200.8	Lead	1.17	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 30- Corr @ 201 L- FD					<i>Collected:</i> 4/18/2017	<i>Lab ID:</i> 011703121-0030		
200.8	Lead	1.02	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 31- Corr @ 201 R- FD					<i>Collected:</i> 4/18/2017	<i>Lab ID:</i> 011703121-0031		
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 32- Blank- FD					<i>Collected:</i> 4/18/2017	<i>Lab ID:</i> 011703121-0032		
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG

Definitions:
 ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit (Analytical)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

Environmental Chemistry
Chain of Custody

EMSL Order Number (Lab Use Only):
011703121

Report To Contact Name: Michael Levay
Company Name: Omega Environmental
Street: 280 Huyler Street
City/State/Zip: S. Hackensack, NJ 07608
Phone: 201.489.8700
Fax: 201.342.5412

Bill To Company: Omega Environmental
Attention To: Accts Payable
Street: 280 Huyler Street
City/State/Zip: S. Hackensack, NJ 07608
Phone: 201.489.8700
Fax: 201.342.5412

Project Name: 17-27009
Email Results To: lab@omega-env.com
US State Samples Collected: NJ

Number of Samples in Shipment: 32
Date of Shipment: [Blank]
Sampler Signature: *Michael Levay*

Standard Turnaround Time: 2 Weeks 1 Week 4 Days 3 Days 2 Days 1 Day

Failure to complete will hinder processing of samples

Client Sample ID	Comp	Grab	Date/Time	Matrix	Preserv.	P ICP/MS	List Test(s) Needed	Comments
1 Bsmt Kitchen	FD	X	4/17 1:00	DW	2	X		
2 APR Theater L	FD	X		DW	2	X		
3 APR Theater R	FD	X		DW	2	X		
4 In 153	FD	X		DW	2	X		
5 Corr @153	FD	X		DW	2	X		
6 In 152	FD	X		DW	2	X		
7 In 149	FD	X		DW	2	X		
8 In 150	FD	X		DW	2	X		
9 Corr @ 149	FD	X		DW	2	X		
10 In 148	FD	X		DW	2	X		
11 In 151	FD	X		DW	2	X		
12 Corr @ 151	FD	X		DW	2	X		
13 In 141	FD	X		DW	2	X		
14 Kitchen (left to right excluding hanc	FD	X		DW	2	X		
15 Kitchen (left to right excluding hanc	FD	X		DW	2	X		
16 Kitchen (left to right excluding hanc	FD	X		DW	2	X		
17 Kitchen (left to right excluding hanc	FD	X		DW	2	X		
18 Kitchen (left to right excluding hanc	FD	X		DW	2	X		

Released By (Signature): *Michael Levay* **Date & Time:** 4/19 9:30
Received By: *Carrie Weiss* **Date & Time:** 4/21/17 9:30

Instructions or Comments: Results only Results and QC Reduced Deliverables Disk Deliverables Other

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

**Environmental Chemistry
Chain of Custody**

EMSL Order Number (Lab Use Only): 011703121

EMSL ANALYTICAL, INC.

Report To Contact Name: Michael Levy
Company Name: Omega Environmental
Street: 280 Huyler Street
City: S. Hackensack
Phon: 201.489.8700
Project Name: 17-27009
Number of Samples in Shipment: 32
Standard Turnaround Time: 2 Weeks
Failure to complete will hinder processing of samples

Bill To Company: Omega Environmental
Attention To: Accts Payable
Street: 280 Huyler Street
City/State/Zip: S. Hackensack, NJ 07606
Phone: 201.489.8700
lab@omega-env.com
Fax: 201.342.5412
Date of Shipment: 10/19/00
Sampler Signature: *[Signature]*
US State Samples Collected: NJ

Matrix: 1 Week 2 Days 3 Days 4 Days 1 Day

Client Sample ID	Comp	Grab	Date/Time	Matrix				Preserv.	List Test(s) Needed	Comments
				W=Water	S=Soil	A=Air	O=Other			
19 Exterior outside kitchen	FD	X	4/18/00	DW				2		
20 Corr @ 118 L	FD	X		DW				2		
21 Corr @ 118 R	FD	X		DW				2		
22 In 110	FD	X		DW				2		
23 Nurse Office 103	FD	X		DW				2		
24 In 170	FD	X		DW				2		
25 In 161	FD	X		DW				2		
26 Corr @ 223 L	FD	X		DW				2		
27 Corr @ 223 R	FD	X		DW				2		
28 Corr @ 209 L	FD	X		DW				2		
29 Corr @ 209 R	FD	X		DW				2		
30 Corr @ 201 L	FD	X		DW				2		
31 Corr @ 201 R	FD	X		DW				2		
32 Blank	FD	X		DW				2		
00	0	X		DW				2		
00	0	X		DW				2		
00	0	X		DW				2		
00	0	X		DW				2		
Released By (Signature): <i>[Signature]</i> Date & Time: 4/19 9:30										
Received By: _____ Date & Time: _____										

Please indicate reporting requirements: Results only Results and QC Reduced Deliverables Disk Deliverables Other

Instructions or Comments: