



## 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)

## TABLE OF CONTENTS

### EXECUTIVE SUMMARY/PROJECT OVERVIEW

1. RESULTS TABLE
2. SAMPLING METHODOLOGY
3. DISCUSSION OF RESULTS
4. RECOMMENDATIONS

### Appendices:

A. Laboratory Analytical Reports

## **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 <sup>st</sup> draw (FD)	Results (ppb)	LCR Action Level <sup>(1)</sup> (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

<sup>(1)</sup> 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 (HNO<sub>3</sub>) 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 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.

**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:	Prep Date	Analyst	Analysis Date	Analyst		
1-Bsmt Kitchen- FD		4/18/2017						
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
2-APR Theater L-FD		4/18/2017						
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
3- APR Theater R- FD		4/18/2017						
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
4- In 153- FD		4/18/2017						
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
5- Corr @ 153- FD		4/18/2017						
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
6- In 152- FD		4/18/2017						
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
7- In 149- FD		4/18/2017						
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
8- In 150- FD		4/18/2017						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst



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

**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](mailto: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:	Prep Date	Analyst	Analysis Date	Analyst		
15- Kitchen (Left to Right)- FD		4/18/2017						
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
16- Kitchen (Left to Right)- FD		4/18/2017						
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
17- Kitchen (Left to Right)- FD		4/18/2017						
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
178- Kitchen (Left to Right)- FD		4/18/2017						
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
19- Exterior Outside Kitchen- FD		4/18/2017						
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
20- Corr @ 118 L- FD		4/18/2017						
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
21- Corr @ 118 R- FD		4/18/2017						
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
22- In 110- FD		4/18/2017						
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

**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		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  
 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**

<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/18/2017</i>	<i>Lab ID:</i>	<i>011703121-0029</i>			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.17	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/18/2017</i>	<i>Lab ID:</i>	<i>011703121-0030</i>			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.02	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/18/2017</i>	<i>Lab ID:</i>	<i>011703121-0031</i>			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/18/2017</i>	<i>Lab ID:</i>	<i>011703121-0032</i>			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
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 Levey  
**Company Name:** Omega Environmental  
**Street:** 280 Huyler Street  
**City/State/Zip:** S. Hackensack, NJ 07606  
**Phone:** 201.489.8700  
**Fax:** 201.342.5412  
**Project Name:** 17-27009  
**Number of Samples in Shipment:** 32  
**Standard Turnaround Time:** 2 Weeks  
**Email Results To:** lab@omega-env.com  
**Date of Shipment:** [Blank]  
**Sampler Signature:** *[Signature]*

Client Sample ID	Comp	Grab	Date/Time	Matrix				Preserv.	List Test(s) Needed	Comments
				W=Water	S=Soil	A=Air	O=Other			
1 Bsm Kitchen	FD	X	4/19 9:30	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):** *[Signature]* **Date & Time:** 4/19 9:30  
**Received By:** *[Signature]* **Date & Time:** 4/24/17 9:30  
 Please indicate reporting requirements:  Results only  Results and QC  Reduced Deliverables  Disk Deliverables  Other  
**Instructions or Comments:**

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:** S. Hackensack  
**State:** NJ  
**Zip:** 201.342.5412  
**Phone:** 201.489.8700  
**Fax:** 201.342.5412  
**Project Name:** 17-27009  
**City/State/Zip:** S. Hackensack, NJ 07606  
**Phone:** 201.489.8700  
**Fax:** 201.342.5412  
**Number of Samples in Shipment:** 32  
**Email Results To:** lab@omega-env.com [US State Samples Collected: NJ]  
**Standard Turnaround Time:** 2 Weeks  
**Date of Shipment:** 1/01/2000  
**Sampler Signature:** *Michael Levay*

Failure to complete will hinder processing of samples

Following TATs are subject to Lab Approval:  1 Week  4 Days  3 Days  2 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	X	
20 Corr @ 118 L	FD	X		DW				2	X	
21 Corr @ 118 R	FD	X		DW				2	X	
22 In 110	FD	X		DW				2	X	
23 Nurse Office 103	FD	X		DW				2	X	
24 In 170	FD	X		DW				2	X	
25 In 161	FD	X		DW				2	X	
26 Corr @ 223 L	FD	X		DW				2	X	
27 Corr @ 223 R	FD	X		DW				2	X	
28 Corr @ 209 L	FD	X		DW				2	X	
29 Corr @ 209 R	FD	X		DW				2	X	
30 Corr @ 201 L	FD	X		DW				2	X	
31 Corr @ 201 R	FD	X		DW				2	X	
32 Blank	FD	X		DW				2	X	
00	0	X		DW				2	X	
00	0	X		DW				2	X	
00	0	X		DW				2	X	
00	0	X		DW				2	X	
Released By (Signature)			Date & Time							Date & Time
<i>Michael Levay</i>			1/19							4:30

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

Instructions or Comments: