



Potable Water Testing Report

Prepared for:

Voorhees Township Public Schools
329 Route 73
Voorhees, NJ 08043

Attention: Clark J. Mathes, Director of Buildings and Grounds

Project:

Water Testing for Lead
ET Hamilton Elementary School
Voorhees, NJ

Project Date: April 17, 2017

Prepared By:

David M. Kichula, CIH

Project No. 17152

May 12, 2017

Scope of Work:

Potable water testing was conducted at the ET Hamilton Elementary School in Voorhees, NJ. The testing protocol included inorganic lead. The field investigation was performed on April 17, 2017 by Voorhees Maintenance Staff.

Procedures:

Potable Water Testing:

Water samples were collected from a representative number of sinks and fountains throughout the school. The water samples were analyzed for the primary inorganic compound lead. The samples were collected as first draw samples from the water fixtures. The samples were collected early in the morning before any use had occurred by students and staff.

The results are reported in units of microgram per liter ($\mu\text{g/L}$) and are compared to the Drinking Water Standards established by the federal Environmental Protection Agency (EPA) and adopted by the New Jersey Department of Environmental Protection (NJDEP). The testing results are summarized in Table I and the laboratory reports are enclosed in Appendix A.

The Lead and Copper Rule established an action level of 15 $\mu\text{g/l}$ for lead. This means no more than 10 percent of the collected samples can be above the action level.

Discussion:

The drinking water results are summarized in Table I. The lead levels are reported in the range of $<1 \mu\text{g/L}$ to $21.9 \mu\text{g/L}$. All but one sample are reported within the Action Level of $15 \mu\text{g/L}$. One sample collected from the bubbler in Room 7 is reported with levels above the action level ($21.9 \mu\text{g/L}$).

The Lead and Copper Rule specifies that no more than 10 percent of the samples collected can be above the action level. Based on the sample results we conclude that the drinking water lead levels at ET Hamilton Elementary School are well within the EPA standards.

Please contact us should you have any questions. We look forward to being of continued assistance. Your time and cooperation are greatly appreciated.

Sincerely;



David M. Kichula, CIH

Table I
Drinking Water Result Summary
ET Hamilton Elementary School, Voorhees, NJ
4/17/2017

<i>Location</i>	<i>Source</i>	<i>Results µg/L</i>
1. Room 1	Bubbler	1.01
2. Room 2	Bubbler	ND
3. Room 3	Bubbler	ND
4. Room 4	Bubbler	2.47
5. Room 5	Bubbler	ND
6. Room 6	Bubbler	1.57
7. Room 7	Bubbler	21.9
8. Room 8	Bubbler	ND
9. Room 9	Bubbler	12.6
10. Room 10	Bubbler	ND
11. Room 11	Bubbler	ND
12. Room 12	Bubbler	1.65
13. Hallway	Water Cooler	2.17
14. Hallway	Water Cooler	ND
15. Teachers Lounge	Kitchen Cold	ND
16A. Hallway	Water Cooler	ND
17A. Hallway	Water Cooler	ND
18. Room 25	Bubbler	ND
19. Room 26	Bubbler	ND
20. Room 35	Bubbler	ND
21. Room 34	Bubbler	ND
22. Room 33	Bubbler	ND
23. Room 32	Bubbler	ND
24. Room 31	Bubbler	ND
25. Room 28	Bubbler	ND
26. Room 29	Bubbler	ND
27. Room 30	Bubbler	9.13
28A. Hallway	Water Cooler	ND
28B. Hallway	Water Cooler	ND
29. Kitchen	Cafeteria Outlet	1.03
30. Kitchen	Ice Machine	ND
31. Kitchen	Food Prep	ND
32. Nurse's Office	Nurse's Sink	ND
33. Main Office	Kitchen Cold	ND
34. Hallway	Water Cooler	ND

EPA/NJDEP Action Level – 15 ppb

Appendix A
Laboratory Reports and Field Data Sheets



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

Matthew Hines
Air Consulting Services, LLC
301 East Ward Street
Hightstown, NJ 08520

4/27/2017

Phone: (609) 371-2489
Fax: (609) 371-0827

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/20/2017. The results are tabulated on the attached data pages for the following client designated project:

17152 - ET Hamilton ES

The reference number for these samples is EMSL Order #011703037. 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.**

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

EMSL Order: 011703037

CustomerID: AIRC54

CustomerPO:

ProjectID:

Attn: **Matthew Hines**
Air Consulting Services, LLC
301 East Ward Street
Hightstown, NJ 08520

Phone: (609) 371-2489
 Fax: (609) 371-0827
 Received: 04/20/17 1:30 PM

Project: 17152 - ET Hamilton ES

Analytical Results

Client Sample Description		1	Collected:	4/17/2017	Lab ID:	011703037-0001		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
Room 1								
200.8	Lead	1.01	1.00	µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description		2	Collected:	4/17/2017	Lab ID:	011703037-0002		
Room 2								
200.8	Lead	ND	1.00	µg/L	4/24/2017	AE	4/24/2017	KB
Client Sample Description		3	Collected:	4/17/2017	Lab ID:	011703037-0003		
Room 3								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description		4	Collected:	4/17/2017	Lab ID:	011703037-0004		
Room 4								
200.8	Lead	2.47	1.00	µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description		5	Collected:	4/17/2017	Lab ID:	011703037-0005		
Room 5								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description		6	Collected:	4/17/2017	Lab ID:	011703037-0006		
Room 6								
200.8	Lead	1.57	1.00	µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description		7	Collected:	4/17/2017	Lab ID:	011703037-0007		
Room 7								
200.8	Lead	21.9	1.00	µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description		8	Collected:	4/17/2017	Lab ID:	011703037-0008		
Room 8								
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst

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Analytical Results

Client Sample Description 8 Room 8		Collected: 4/17/2017	Lab ID: 011703037-0008				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/24/2017	AE	4/24/2017	KB
Client Sample Description 9 Room 9		Collected: 4/17/2017	Lab ID: 011703037-0009				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	12.6	1.00 µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description 10 Room 10		Collected: 4/17/2017	Lab ID: 011703037-0010				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description 11 Room 11		Collected: 4/17/2017	Lab ID: 011703037-0011				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description 12 Room 12		Collected: 4/17/2017	Lab ID: 011703037-0012				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.65	1.00 µg/L	4/21/2017	AE	4/25/2017	SM
Client Sample Description 13 Hallway		Collected: 4/17/2017	Lab ID: 011703037-0013				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.17	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description 14 Hallway		Collected: 4/17/2017	Lab ID: 011703037-0014				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description 15 Teacher's Lounge		Collected: 4/17/2017	Lab ID: 011703037-0015				
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst

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<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0015</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	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0016</i>			
15 Teacher's Lounge								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0017</i>			
16A Hallway								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0018</i>			
16B Hallway								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0019</i>			
17 Hallway								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0020</i>			
18 Room 25								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0021</i>			
19 Room 26								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0022</i>			
20 Room 35								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703037-0023</i>			
21 Room 34								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB

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Analytical Results

Client Sample Description		21	Collected:	4/17/2017	Lab ID:	011703037-0022		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 34								
Client Sample Description		22	Collected:	4/17/2017	Lab ID:	011703037-0023		
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 33								
Client Sample Description		23	Collected:	4/17/2017	Lab ID:	011703037-0024		
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 6								
Client Sample Description		24	Collected:	4/17/2017	Lab ID:	011703037-0025		
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 7								
Client Sample Description		25	Collected:	4/17/2017	Lab ID:	011703037-0026		
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 8								
Client Sample Description		26	Collected:	4/17/2017	Lab ID:	011703037-0027		
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 9								
Client Sample Description		27	Collected:	4/17/2017	Lab ID:	011703037-0028		
200.8	Lead	9.13	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 10								
Client Sample Description		28A	Collected:	4/17/2017	Lab ID:	011703037-0029		
200.8	Lead	9.13	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Room 11								

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Analytical Results

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>					
28A Room 11		4/17/2017	011703037-0029					
<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	4/21/2017	AE	4/24/2017	KB
28B Room 12		4/17/2017	011703037-0030					
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
29 Hallway		4/17/2017	011703037-0031					
200.8	Lead	1.03	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
30 Hallway		4/17/2017	011703037-0032					
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
31 Teacher's Lounge		4/17/2017	011703037-0033					
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
32 Hallway		4/17/2017	011703037-0034					
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
33 Hallway		4/17/2017	011703037-0035					
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
34 Hallway		4/17/2017	011703037-0036					

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Analytical Results

Client Sample Description		34	Collected:	4/17/2017	Lab ID:	011703037-0036		
		Hallway						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB

Definitions:

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