



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  
Kresson Elementary School  
Voorhees, NJ

Project Date: April 17, 2017

Prepared By:

David M. Kichula, CIH

Project No. 17151

May 12, 2017

## **Scope of Work:**

Potable water testing was conducted at the Kresson Elementary School in Voorhees, NJ. The testing included inorganic lead in drinking water. The sampling was performed by Voorhees Maintenance staff on April 17, 2017.

## **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 micrograms 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  $12.3 \mu\text{g/L}$ . All samples are reported with levels below the Action Level of  $15 \mu\text{g/L}$ .

The Lead Copper rule requires 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 schools drinking water lead levels are reported 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**  
**Kresson Elementary School, Voorhees, NJ**  
**April 17, 2017**

<i>Location</i>	<i>Source</i>	<i>Results µg/L</i>
1. Hallway	Water Cooler	ND
2. Main Office	Kitchen Cold	ND
3A. Dish Room	Ice Machine	ND
3B. Dish Room	Ice Machine	ND
4. Kitchen	Food Prep	1.24
5. Dish Room	Cafeteria Outlet	3.29
6. Teachers Lounge	Kitchen Cold	2.46
7. Hallway	Water Cooler	ND
8. Main Office	Kitchen Cold	2.10
9. Nurse's Office	Nurse's Sink	1.34
10A. Hallway	Water Cooler	6.90
10B. Hallway	Water Cooler	2.62
11. Hallway	Water Cooler	12.3
12. Hallway	Water Cooler	2.15
13A. Hallway	Water Cooler	2.08
13B. Hallway	Water Cooler	1.80
14. Hallway	Water Cooler	2.83
15. Hallway	Water Cooler	ND
16. Room 151	Bubbler	ND
17. Room 152	Bubbler	ND
18. Room 153	Bubbler	1.47
19. Room 154	Bubbler	ND
20. Room 155	Bubbler	ND

**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:

**17151 - Kresson ES**

The reference number for these samples is EMSL Order #011703032. 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.

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<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: 011703032

CustomerID: AIRC54

CustomerPO:

ProjectID:

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 Received: 04/20/17 1:25 PM

Project: 17151 - Kresson ES

**Analytical Results**

<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0001</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> 2 Main Office		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0002</i>			
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 3A Dish Room		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0003</i>			
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 3B Dish Room		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0004</i>			
200.8	Lead	ND	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 4 Kitchen		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0005</i>			
200.8	Lead	1.24	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 5 Dish Room		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0006</i>			
200.8	Lead	3.29	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 6 Teacher's Lounge		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0007</i>			
200.8	Lead	2.46	1.00	µg/L	4/25/2017	AE	4/26/2017	EG
<i>Client Sample Description</i> 7 Hallway		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0008</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>

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**Analytical Results**

Client Sample Description		7	Collected:	4/17/2017	Lab ID:	011703032-0008		
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
Hallway								
200.8	Lead	ND	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		8	Collected:	4/17/2017	Lab ID:	011703032-0009		
Main Office								
200.8	Lead	2.10	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		9	Collected:	4/17/2017	Lab ID:	011703032-0010		
Nurse's Office								
200.8	Lead	1.34	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		10A	Collected:	4/17/2017	Lab ID:	011703032-0011		
Hallway								
200.8	Lead	6.90	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		10B	Collected:	4/17/2017	Lab ID:	011703032-0012		
Hallway								
200.8	Lead	2.62	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		11	Collected:	4/17/2017	Lab ID:	011703032-0013		
Hallway								
200.8	Lead	12.3	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		12	Collected:	4/17/2017	Lab ID:	011703032-0014		
Hallway								
200.8	Lead	2.15	1.00	µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Description		13A	Collected:	4/17/2017	Lab ID:	011703032-0015		
Hallway								
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst

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**Analytical Results**

<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0015</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	2.08	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>011703032-0016</i>			
13B Hallway								
<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	1.80	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>011703032-0017</i>			
14 Hallway								
<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	2.83	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>011703032-0018</i>			
15 Hallway								
<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	4/25/2017	SM
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0019</i>			
16 Room 151								
<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	4/25/2017	SM
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0020</i>			
17 Room 152								
<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	4/25/2017	SM
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0021</i>			
18 Room 153								
<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	1.47	1.00	µg/L	4/25/2017	AE	4/25/2017	SM
<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0022</i>			
19 Room 154								
<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>

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<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0022</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	4/25/2017	SM

  

<i>Client Sample Description</i>		<i>Collected:</i>	<i>4/17/2017</i>	<i>Lab ID:</i>	<i>011703032-0023</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	4/25/2017	SM

**Definitions:**

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)