

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 Signal Hill Elementary School Voorhees, NJ

Project Date: April 17, 2017

Prepared By:

David M. Kichula, CIH

Project No. 17149

May 12, 2017

Scope of Work:

Potable water testing was conducted at the Signal Hill Elementary School in Voorhees, NJ. The testing protocol included inorganic lead in Drinking Water. 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 (μ 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.

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The Lead and Copper Rule established an action level of 15 µg/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 μ g/L to 5.54 μ g/L. All samples are well within the Action Level of 15 μ g/L.

The Lead and Copper Rule specifies that no more than 10 percent of the samples collected can

be above the action level of 15 ug/l.

Based on the sample results we conclude that the drinking water lead levels at Signal Hill

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;

Den Leila

David M. Kichula, CIH

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Table I Drinking Water Result Summary Signal Hill Elementary School, Voorhees, NJ 4/17/2017

Location	Source	Results µg/L
 Hall Water Cooler 	Water Cooler	ND
2. Teacher's Lounge	Kitchen Cold	ND
3. Kitchen	Food Prep	ND
4. Dish Room	Ice Machine	5.54
5. Dish Room	Cafeteria Outlet	ND
6. Hallway	Water Cooler	ND
7. Room 22	Bubbler	ND
8. Room 23	Bubbler	ND
9. Room 24	Bubbler	ND
10. Music Room	Bubbler	ND
11. Room 1	Bubbler	ND
12. Room 2	Bubbler	ND
13. Room 3	Bubbler	ND
14. Room 4	Bubbler	ND
15. Hallway	Water Cooler	ND
16. Room 26	Bubbler	ND
17. Room 27	Bubbler	ND
18. Hallway	Water Cooler	ND
19. Nurse's Office	Nurse's Sink	ND
20. Main Office	Kitchen Cold	ND
21. Room 5	Bubbler	ND
22. Room 6	Bubbler	ND
23. Room 7	Bubbler	ND
24. Room 8	Bubbler	ND
25. Room 9	Bubbler	1.20
26. Room 30	Bubbler	ND
27. Room 31	Bubbler	ND
28. Room 33	Bubbler	ND
29. Room 12	Bubbler	ND
30. Room 11	Bubbler	ND
31. Room 10	Bubbler	ND
32. Hallway	Water Cooler	ND
33. Room 14	Bubbler	ND

EPA/NJDEP Action Level – 15 ppb

Table I Drinking Water Result Summary Signal Hill Elementary School, Voorhees, NJ 4/17/2017

Location	Source	Results µg/L
34. Room 15	Bubbler	ND
35. Room 16	Bubbler	ND
36. Room 34	Bubbler	ND
37. Room 35	Bubbler	ND
38. Room 21	Bubbler	ND
39. Room 20	Bubbler	ND
40. Room 19	Bubbler	ND
41. Room 18	Bubbler	ND
42. Room 17	Bubbler	ND
43. Hallway	Water Cooler	ND

EPA/NJDEP Action Level – 15 ppb

Appendix A Laboratory Reports and Field Data Sheets



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

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:

17149- Signal Hill ES

The reference number for these samples is EMSL Order #011703035. 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.

4/27/2017



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EMSL Order: CustomerID: CustomerPO:

ProjectID:

011703035

AIRC54

Attn: Matthew Hines

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

Phone: Fax:

(609) 371-2489 (609) 371-0827

Received:

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Project: 17149- Signal Hill ES

Analytical Results

		Analytical F	<u>Results</u>				
Client Sample Des	•		Collected	d: 4/17/2017	Lab ID:	01170303	5-0001
	Hall Water Cooler			Prep		Analysia	
Method	Parameter	Result	RL Un		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/	L 4/25/20	-	4/26/2017	EG
Client Sample Des	scription 2		Collected	#: 4/17/2017	Lab ID:	01170303	5-0002
•	Teachers Lounge						
				Prep		Analysis	
Method	Parameter	Result	RL Un		Analyst	Date	Analyst
200.8	Lead	ND	1.00 µg/	L 4/25/20	017 AE	4/26/2017	EG
Client Sample Des	•		Collected	d: 4/17/2017	Lab ID:	01170303	5-0003
	Kitchen						
Method	Parameter	Result	RL Un	Prep its Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/		=	4/26/2017	EG
					_		
Client Sample Des	scription 4 Dish Room		Collected	i: 4/17/2017	Lab ID:	01170303	5-0004
	DISTI ROOTT			0		Amalumia	
Method	Parameter	Result	RL Un	Prep its Date	Analyst	Analysis Date	Analyst
200.8	Lead	5.54	1.00 µg/	L 4/25/20	017 AE	4/26/2017	EG
Client Sample Des	scription 5		Collected	#: 4/17/2017	Lab ID:	01170303	 5-0005
Onem Gumpie Dec	Dish Room		0000.00			01110000	
				Prep		Analysis	
Method	Parameter	Result	RL Un	its Date	Analyst	Date	Analyst
200.8	Lead	ND ND	1.00 µg/	L 4/25/20	017 AE	4/26/2017	EG
Client Sample Des	scription 6		Collected	d: 4/17/2017	Lab ID:	01170303	5-0006
	Hallway						
				Prep		Analysis	
Method	Parameter	Result	RL Un		Analyst	Date	Analyst
200.8	<u></u>		1.00 µg/	L 4/25/20	017 AE	4/26/2017	EG
Client Sample Des	•		Collected	d: 4/17/2017	Lab ID:	01170303	5-0007
	Room 22						
Method	Parameter	Result	RL Un	Prep its Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/			4/26/2017	EG
Client Sample Des			Collected		 Lab ID:	01170303	5-0008
Chent Sample Des	Room 23		Conected	a, 7/1//ZU1/	Lav IV.	011/0303	J-0000
				Prep		Analysis	
	Parameter						



Project: 17149- Signal Hill ES

EMSL Analytical, Inc.

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(609) 371-2489 (609) 371-0827

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Client Sample Des	scription 8		Colle	ected:	4/17/2017	Lab ID:	011703035	5-0008
	Room 23							
BB a 4h a al	Bausanatau	D #	-	11.24-	Prep		Analysis	
Method	Parameter	Result		Units	Date	Analyst	Date	Analyst
200.8	Lead	ND	1.00	μg/L	4/25/2017	AE	4/26/2017	EG_
Client Sample Des	•		Colle	ected:	4/17/2017	Lab ID:	011703035	-0009
	Room 24							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND		μg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	scription 10		Colle	ected:	4/17/2017	Lab ID:	011703035	
onent dample bes	Music Room		Com	roteu.	4/11/2017	Lab ID.	011703030	-0010
					Prep		Analysis	
Method	Parameter	Result	RL	Units	Date	Analyst	Date	Analyst
200.8	Lead	ND ND	1.00	μg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	scription 11		Colle	ected:	4/17/2017	Lab ID:	011703035	-0011
	Room 1							
					Prep		Analysis	
Method	Parameter	Result	RL	Units	Date	Analyst	Date	Analyst
200.8	Lead	ND ND	1.00	μg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	•		Colle	ected:	4/17/2017	Lab ID:	011703035	-0012
	Room 2							
Method	Parameter	Result	DI	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND		μg/L	4/25/2017	Anaryst	4/26/2017	EG
-						<u>=</u>		
Client Sample Des	scription 13 Room 3		Colle	ected:	4/17/2017	Lab ID:	011703035	-0013
	Noom o				Prep		Analysis	
Method	Parameter	Result	RL	Units	Date	Analyst	Date	Analyst
200.8	Lead	ND	1.00	μg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	scription 14		Colle	ected:	4/17/2017	Lab ID:	011703035	5-0014
,	Room 4							
					Prep		Analysis	
Method	Parameter	Result		Units	Date	Analyst		Analyst
200.8	Lead 	ND	1.00	μg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	-		Colle	ected:	4/17/2017	Lab ID:	011703035	5-0015
	Hallway							
88-45-a	Barramate -	84	51	11-14-	Prep	A +	Analysis	
Method	Parameter	Result	RL	Units	Date	Analyst	Date	Analyst



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Received:

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Analytical Results

		Analytical	<u>Results</u>					
Client Sample Des	scription 15 Hallway		Collect	ted:	4/17/2017	Lab ID:	011703035	-0015
Method	Parameter	Result	RL U	Jnits	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µ	ıg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	scription 16 Room 26	· · · · · · · · · · · · · · · · · · ·	Collect	ted:	4/17/2017	Lab ID:	011703035	5-0016
Method	Parameter	Result	RL U	Inits	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 μ	ıg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	scription 17 Room 27		Collect	ted:	4/17/2017	Lab ID:	011703035	-0017
Method	Parameter	Result	RL U	Jnits	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µ	ıg/L	4/25/2017	AE	4/26/2017	EG_
Client Sample Des	scription 18 Hallway		Collect	ted:	4/17/2017	Lab ID:	011703035	-0018
Method	Parameter	Result	RL U	Jnits	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 μ	ıg/L	4/25/2017	AE	4/26/2017	EG
Client Sample Des	scription 19 Nurse's Office		Collect	ted:	4/17/2017	Lab ID:	011703035	-0019
Method	Parameter	Result	RL U	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µ	ıg/L	4/25/2017	AE	4/26/2017	EG_
Client Sample Des	scription 20 Main Office		Collect	ted:	4 /17/2017	Lab ID:	011703035	5-0020
Method	Parameter	Result		Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µ	ıg/L	4 /25/2017	AE	4/26/2017	EG
Client Sample Des	scription 21 Room 5		Collect	ted:	4 /17/2017	Lab ID:	011703035	5-0021
Method	Parameter	Result	RL U	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µ	ıg/L	4/21/2017	AE	4/24/2017	KB
Client Sample Des	scription 22 Room 6		Collect	ted:	4/17/2017	Lab ID:	011703035	5-0022
Method	Parameter	Result	RL U	Units	Prep Date	Analyst	Analysis Date	Analyst



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Analytical Posulte

		Analytical Re	sults_				
Client Sample Description	n 22 Room 6	-	Collected	f : 4/17/2017	Lab ID:	011703035	5-0022
Method	Parameter	Result	RL Uni		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/l	L 4/21/2017	AE	4/24/2017	KB
Client Sample Description	23 Room 7		Collected	i: 4/17/2017	Lab ID:	011703035	5-0023
Method	Parameter	Result	RL Uni		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/	L 4/21/2017	AE	4/24/2017	KB
Client Sample Description	24 Room 8		Collected	d: 4/17/2017	Lab ID:	011703035	i-0024
Method	Parameter	Result	RL Uni		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/l	L 4/21/2017	AE	4/24/2017	KB
Client Sample Description	7 25 Room 9		Collected	f: 4/17/2017	Lab ID:	011703035	-0025
Method	Parameter	Result	RL Uni	Prep its Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.20	1.00 µg/	L 4/21/2017	AE	4/24/2017	KB
Client Sample Description	7 26 Room 30		Collected	d: 4/17/2017	Lab ID:	011703035	5-0026
Method	Parameter	Result	RL Uni		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/	L 4/21/2017	AE	4/24/2017	KB
Client Sample Description	n 27 Room 31		Collected	d: 4/17/2017	Lab ID:	011703035	5-0027
Method	Parameter	Result	RL Uni		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/	L 4/21/2017	AE 	4/24/2017	KB
Client Sample Description	n 28 Room 33		Collected	d: 4/17/2017	Lab ID:	011703035	5-0028
Method	Parameter	Result	RL Un		Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00 µg/	L 4/21/2017	AE	4/24/2017	KB
Client Sample Description	7 29 Room 12		Collected	d: 4/17/2017	Lab ID:	011703035	5-0029
Method	Parameter	Result	RL Uni	Prep its Date	Analyst	Analysis Date	Analyst



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Analytical Posulte

		Analytical I	Results				
Client Sample De	scription 29 Room 12		Collected:	4/17/2017	Lab ID:	011703035	-0029
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample De	scription 30 Room 11		Collected:	4/17/2017	Lab ID:	011703035	-0030
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 De	scription 31 Room 10		Collected:	4/17/2017	Lab ID:	011703035	i-0031
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 De	scription 32 Hallway		Collected:	4/17/2017	Lab ID:	011703035	-0032
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample De	scription 33 Room 14		Collected:	4/17/2017	Lab ID:	011703035	-0033
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 De	scription 34 Room 15		Collected:	4/17/2017	Lab ID:	011703035	5-0034
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 De	scription 35 Room 16		Collected:	4/17/2017	Lab ID:	011703035	5-0035
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 De	scription 36 Room 34		Collected:	4/17/2017	Lab ID:	011703035	5-0036
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst



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Project: 17149- Signal Hill ES

Analytical Posulte

		Analytical	Results				
Client Sample De	escription 36 Room 34		Collected:	4/17/2017	Lab ID:	011703035	5-0036
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 De	escription 37 Room 35		Collected:	4/17/2017	Lab ID:	011703035	5-0037
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample De	escription 38 Room 21		Collected:	4/17/2017	Lab ID:	011703035	5-0038
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample De	escription 39 Room 20		Collected:	4/17/2017	Lab ID:	011703035	5-0039
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µg/L	4/21/2017	AE	4/24/2017	KB
Client Sample De	escription 40 Room 19		Collected:	4/17/2017	Lab ID:	011703035	5-0040
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 De	escription 41 Room 18		Collected:	4/17/2017	Lab ID:	011703035	5-0041
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 De	escription 42 Room 8		Collected:	4/17/2017	Lab ID:	011703035	5-0042
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND ND	1.00 µg/L	4/25/2017	AE	4/26/2017	EG_
Client Sample De	escription 43 Room 9		Collected:	4/17/2017	Lab ID:	011703035	5-0043
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst



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Analytical Results

Client Sample Description

43

Collected:

4/17/2017

Lab ID:

011703035-0043

Method

Parameter

Room 9

Result

RL Units

Date

Prep

Analyst Date Analyst

200.8

Lead

ND

1.00 µg/L

4/25/2017

ΑE

4/26/2017

Analysis

EG

Definitions:

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

RL - Reporting Limit (Analytical)