

# HORIZON ENVIRONMENTAL GROUP, INC.

P.O. Box 316  
Thorofare, NJ 08086

Phone: 856-848-0800  
Fax: 856-848-0838

January 15, 2022

Mr. John Swanson  
Paulsboro Board of Education  
662 North Delaware Street  
Paulsboro, NJ 08066

Reference: Lead in Water Testing at Paulsboro High School (Flush Samples - 211114)

Dear Mr. Swanson:

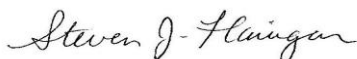
Pursuant to your request, collection and analysis of ten (10) flush draw water samples from the domestic water supply system at the Paulsboro High School facility have been completed. In accordance with applicable New Jersey guidelines, the samples were collected in the morning on Sunday, November 14, 2021, by personnel from Horizon Environmental Group, Inc., and submitted for analysis for the presence of lead using inductively coupled plasma mass spectrometry (ICP-MS) in accordance with USEPA Method 200.8. The results of the analyses of the samples are as follows:

Sample No.	Location	Lead Concentration ( $\mu$ g/L)	Reporting Limit ( $\mu$ g/L)
P-DW-08A	Hall near Room 5 (Filler)	16.7	1.00
P-DW-49	Room 113 - Sink #1	24.6	1.00
P-DW-51	Room 113 - Sink #2	8.05	1.00
P-DW-53	Room 113 - Sink #3	31.0	1.00
P-DW-55	Room 113 - Sink #4	130	1.00
P-DW-59	Room 113 - Sink #6	77.5	1.00
P-DW-61	Room 113 - Sink #7	56.4	1.00
P-DW-47	Teacher's Lounge - Next to Refrigerator	42.9	1.00
P-DW-13B	Hall near Room 116 (Cooler)	4.93	1.00
211114-P-BLANK	BLANK	ND	1.00

Note: "ND" equals none detected; " $\mu$ g/L" equals micrograms per liter which is equivalent to parts per billion (ppb)

Please note that the results of the flush draw samples for several of the fixtures again exceeded the "action level" of 15  $\mu$ g/L (ppb) established by the United States Environmental Protection Agency and adopted by the State of New Jersey. The "action level" of 15  $\mu$ g/L (ppb) does not necessarily signal a violation, but would trigger additional monitoring, maintenance, treatment and/or mitigation requirements. It is our understanding that these fixtures have been taken out of service and will not be used until repairs are made. All laboratory analysis was performed by the trained staff at EMSL Analytical, Inc. in Cinnaminson, New Jersey and a copy of the analysis document is attached. If you have any questions or need more information, please do not hesitate to contact us at (856) 848-0800.

Sincerely,  
HORIZON ENVIRONMENTAL GROUP, INC.



Steven J. Flanigan  
Vice President



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn: **David Flanigan**  
**Horizon Environmental Group, Inc.**  
**P.O. Box 316**  
**Thorofare, NJ 08086**

11/26/2021

Phone: (609) 221-4660

Fax: (856) 848-0838

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 11/15/2021. The results are tabulated on the attached data pages for the following client designated project:

**94015-65 / Paulsboro High School**

The reference number for these samples is EMSL Order #012113118. 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](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012113118

CustomerID: MDS50

CustomerPO:

ProjectID:

Attn: **David Flanigan**  
**Horizon Environmental Group, Inc.**  
**P.O. Box 316**  
**Thorofare, NJ 08086**

Phone: (609) 221-4660  
 Fax: (856) 848-0838  
 Received: 11/15/2021 02:05 PM

Project: 94015-65 / Paulsboro High School

**Analytical Results**

**Client Sample Description** P-DW-08A  
 Hall Near Room 5 (Filler)  
**Collected:** 11/14/2021  
 7:51:00 AM  
**Lab ID:** 012113118-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:35

**Client Sample Description** P-DW-49  
 Room 113 - Sink #1  
**Collected:** 11/14/2021  
 7:54:00 AM  
**Lab ID:** 012113118-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	24.6	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:36

**Client Sample Description** P-DW-51  
 Room 113 - Sink #2  
**Collected:** 11/14/2021  
 7:55:00 AM  
**Lab ID:** 012113118-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	8.05	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:38

**Client Sample Description** P-DW-53  
 Room 113 - Sink #3  
**Collected:** 11/14/2021  
 7:56:00 AM  
**Lab ID:** 012113118-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	31.0	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:39

**Client Sample Description** P-DW-55  
 Room 113 - Sink #4  
**Collected:** 11/14/2021  
 7:56:00 AM  
**Lab ID:** 012113118-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	130 D	2.00 µg/L	11/22/2021 KB	11/23/2021 KB 14:16

**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: 012113118

CustomerID: MDS50

CustomerPO:

ProjectID:

Attn: **David Flanigan**  
**Horizon Environmental Group, Inc.**  
**P.O. Box 316**  
**Thorofare, NJ 08086**

Phone: (609) 221-4660  
 Fax: (856) 848-0838  
 Received: 11/15/2021 02:05 PM

Project: 94015-65 / Paulsboro High School

**Analytical Results**

**Client Sample Description** P-DW-59  
 Room 113 - Sink #6  
**Collected:** 11/14/2021  
 7:57:00 AM  
**Lab ID:** 012113118-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	77.5	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:42

**Client Sample Description** P-DW-61  
 Room 113 - Sink #7  
**Collected:** 11/14/2021  
 7:57:00 AM  
**Lab ID:** 012113118-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	56.4	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:46

**Client Sample Description** P-DW-47  
 Teacher's Lounge - Next to Refrigerator  
**Collected:** 11/14/2021  
 8:00:00 AM  
**Lab ID:** 012113118-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	42.9	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:48

**Client Sample Description** P-DW-13B  
 Hall Near Rm 16 (Cooler)  
**Collected:** 11/14/2021  
 8:03:00 AM  
**Lab ID:** 012113118-0009

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	4.93	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:49

**Client Sample Description** 211114-P-BLANK  
 Blank  
**Collected:** 11/14/2021  
 8:10:00 AM  
**Lab ID:** 012113118-0010

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	11/22/2021 KB	11/22/2021 KB 22:54



## 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: 012113118

CustomerID: MDS50

CustomerPO:

ProjectID:

### Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

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

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results





## Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

012113118

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Company: Horizon Environmental Group, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same	
Street: P. O. Box 316		If Bill to is Different note instructions in Comments**	
Third Party Billing requires written authorization from third party			
City: Thorofare	State/Province: NJ	Zip/Postal Code: 08086	Country: US
Report To (Name): David Flanigan		Telephone #: 856-848-0800	
Email Address: horizonenvgroup@gmail.com		Fax #: 856-848-0838	Purchase Order:
Project Name/Number: 94015-65 / Paulsboro High School		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: NJ		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week			
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide			
Matrix	Method	Instrument	Reporting Limit
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input checked="" type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter
Other:			
Name of Sampler: S FLANIGAN / D FLANIGAN		Signature of Sampler: <i>David Flanigan</i>	
Sample #	Location	Volume/Area	Date/Time Sampled
1	P-DW-08A	HALL NEAR Room 5 (FLOOR)	11/14/21 0757
2	P-DW-49	Room 113 - Sink #1	↓ 0754
3	P-DW-51	Room 113 - Sink #2	↓ 0755
4	P-DW-53	Room 113 - Sink #3	↓ 0756
5	P-DW-55	Room 113 - Sink #4	↓ 0756
Client Sample #'s		Total # of Samples: 10	
Relinquished (Client): <i>David Flanigan</i>	Date: 11/15/21	Time: 2:00 pm	
Received (Lab): <i>John W. L.</i>	Date: 11/15/21	Time: 2:05 pm	
Comments:			



**EMSL ANALYTICAL, INC.**  
LABORATORY PRODUCTS TRAINING

**LEAD (Pb) CHAIN OF CUSTODY**  
**EMSL ORDER ID** *(Lab Use Only):*

**EMSL ORDER ID** (Lab Use Only):

01213118

EMSL Analytical, Inc.  
200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

*Additional Pages of the Chain of Custody are only necessary if needed for additional sample information*

[illegible]

