

April 30, 2019

Ms. Rhonda Munford  
Energy Specialist/ Admin. Associate III Operations  
Prince George Elementary School  
4101 Courthouse Road  
Prince George, Virginia 23875  
[Rmunford@pgs.k12.va.us](mailto:Rmunford@pgs.k12.va.us)



**RE: Lead Drinking Water Sampling  
Prince George Public Schools  
Prince George High School  
Project No.: ENRI190005.01**

Dear Ms. Munford:

The EI Group, Inc (EI) was contracted to perform drinking water sampling at the following school:

- Prince George High School                      7801 Laurel Spring Road, Prince George, VA 23875

This survey was performed by Mr. Chadwick Bowman and Ms. Holly Monger, Industrial Hygienists for EI, on April 19, 2019. The purpose of this assessment was to determine if drinking water for the above building contained lead in excess of the regulated levels.

During the assessment, forty-eight (48) samples were collected from each cold-water supply fixture used for drinking or cooking, as well as fixtures used for emergency eye wash stations. Each sample was sealed in its own plastic jar and delivered on the day of the survey to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia. EHS is accredited by the Virginia Environmental Laboratory Accreditation Program (VELAP) for Drinking Water (VELAP ID 460172).

Sample results indicate water samples meet all regulatory guidelines and regulations, with the exception of six samples taken from the sinks located in Room B8, F1, D5 Storage, D3, B5, and D7 Storage at Prince George High School. See Table 1: Drinking Water Sampling Results, below for specific sampling locations and results.

### **Procedures and Standards**

Lead is a toxic metal that is detrimental to human health. There is no known value of lead for the human body. Lead can remain in the bloodstream and bodily organs for up to a few months. Any amount of lead that is not excreted is absorbed into the bones, where it will collect indefinitely. Young children, 6 years of age and younger are at high risk for lead exposure due to frequent hand-to-mouth activity, and because their nervous systems are still undergoing development. There is currently no safe blood lead level for children, and the degree of harm from lead exposure can vary due to a number of factors such as the frequency, duration, and dose of exposure.

On the day of the survey, EI collected water samples in 250 mL plastic bottles at first draw. First draw refers to collecting a water sample after the water has been sitting in the pipes for at least 8 hours, and no longer than 18 hours prior to sampling. A total of forty-eight (48) water samples were collected at first draw throughout the building.

## Sample Results

The water sampling was conducted by the EI Group on April 19, 2019. The samples were submitted to EHS in Chesterfield, Virginia for analysis using the EPA recommended method SM 3113B-2010. EHS participates in the NELAC Accreditation Program, and the VA Environmental Laboratory Accreditation program (VELAP) for drinking water (VELAP ID 460172). Table 1 on the following page presents the results of the water samples analyzed by EHS on fixtures that were known and accessible to EI during the survey. The laboratory reports are attached in the Appendices.

<b>Table 1: Lead Drinking Water Sampling Results Prince George High School – Prince George County Survey Date: April 19, 2019</b>			
<b>Sample No.</b>	<b>Sample Location</b>	<b>Result (ppb)</b>	<b>Exceedance</b>
19-04-03195-001	Girl's Locker Room Office Sink	3.33	NO
<b>19-04-03195-002</b>	<b>Room B8 Sink</b>	<b>311</b>	<b>YES</b>
19-04-03195-003	Kitchen Rinse Sink	1.85	NO
19-04-03195-004	Kitchen Sink	<1.00	NO
19-04-03195-005	Girl's Locker Room Fountain	<1.00	NO
19-04-03195-006	Faculty 1A Sink	2.46	NO
19-04-03195-007	D Wing Hall Fountain by Café	<1.00	NO
<b>19-04-03195-008</b>	<b>Room F1 Sink</b>	<b>25.0</b>	<b>YES</b>
19-04-03195-009	Clinic Bathroom Sink	1.05	NO
<b>19-04-03195-010</b>	<b>Room D5 Storage Sink</b>	<b>77.9</b>	<b>YES</b>
19-04-03195-011	F Hall Boy's Fountain	1.24	NO
19-04-03195-012	Room D11 Sink	12.2	NO
19-04-03195-013	Faculty D Sink	2.77	NO
19-04-03195-014	F Hall Girl's Fountain	<1.00	NO
<b>19-04-03195-015</b>	<b>Room D3 Sink</b>	<b>31.5</b>	<b>YES</b>
19-04-03195-016	Faculty B Sink	7.11	NO
19-04-03195-017	Room D9 Sink	14.0	NO
19-04-03195-018	F Hall Café Boy's Fountain	<1.00	NO
19-04-03195-019	Boy's Locker Room Fountain	<1.00	NO
19-04-03195-020	A Wing Hall Extension Fountain	5.63	NO
19-04-03195-021	A Wing Hall Fountain at Room A3	<1.00	NO
19-04-03195-022	A Wing Hall Fountain by A29	<1.00	NO
19-04-03195-023	D Wing Girl's Hall Fountain	<1.00	NO
19-04-03195-024	A Wing Hall Fountain by Girls	<1.00	NO
<b>19-04-03195-025</b>	<b>Room B5 Sink</b>	<b>152</b>	<b>YES</b>
19-04-03195-026	B Wing Hall Fountain by Boys	<1.00	NO
19-04-03195-027	Office Sink	1.59	NO
19-04-03195-028	B Wing Hall Fountain at Trophies	<1.00	NO
19-04-03195-029	Room D23 Sink	2.99	NO
19-04-03195-030	D Wing Hall Fountain Boys	<1.00	NO
19-04-03195-031	Faculty 2A Sink	2.26	NO
19-04-03195-032	Café Fountain F Wing	<1.00	NO
19-04-03195-033	Clinic Sink	2.09	NO

19-04-03195-034	Room F18 Right Sink	<1.00	NO
19-04-03195-035	Café Fountain F Wing	1.09	NO
19-04-03195-036	Room F14 Sink	14.3	NO
<b>19-04-03195-037</b>	<b>D7 Storage Sink</b>	<b>18.6</b>	<b>YES</b>
19-04-03195-038	ROOM F15 Fountain	4.46	NO
19-04-03195-039	SPED F18 Sink by Fridge	<1.00	NO
19-04-03195-040	Gym Lobby Men's Fountain	<1.00	NO
19-04-03195-041	Gym Lobby Teacher's Fountain	<1.00	NO
19-04-03195-042	Boy's Locker Room Office Fountain	<1.00	NO
19-04-03195-043	Boy's Team Room Fountain	<1.00	NO
19-04-03195-044	Gym Lobby Storage Fountain	<1.00	NO
19-04-03195-045	Gym Lobby Girl's Fountain	<1.00	NO
19-04-03195-046	Room F6 Sink	2.26	NO
19-04-03195-047	Auxiliary Gym Fountain	<1.00	NO
19-04-03195-048	Room F7 Sink	11.9	NO
ug/L = ppb ug/L = micrograms per liter ppb = Parts Per Billion EPA – Maximum Contaminant Level for Lead in Drinking Water – 15 ppb <b>BOLD</b> = Exceedance of EPA Limit			

## Recommendations

Based on the high lead levels found at the sinks located in Room B8, F1, D5 Storage, D3, B5, and D7 Storage, EI recommends follow-up flush sampling in order to pinpoint the source (fixtures, or interior plumbing) of each sink's water contamination. It is important to note that variations in lead concentration may be found among individual outlets in a building due to differences in the flow rates of those outlets, or the building materials used. EI further recommends that this fixture not be used until follow-up flush sampling has been completed.

## Disclaimer

This inspection and report is written for and intended for the use of Prince George Public Schools and their clients only. EI will not be held liable for any interpretations made, opinions formed, or conclusions drawn by any third party as a result of examining the lab results, inspection results or this report. Any interpretations, opinions, and conclusions will be those made, formed, and drawn solely by that third party.

We have endeavored to complete the services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions at this project. Should conditions change, future sampling may need to be conducted. No other representation, express or implied, is included or intended, and no warranty or guarantee is included or intended in this agreement, or any report, opinion, document, or other instrument of service.

EI appreciates the opportunity to provide these environmental services for Prince George Public Schools. Please feel free to call us at (804) 320-9300 if you have any questions or are in need of further assistance.

Sincerely,  
**The EI Group, Inc**



Holly Monger  
Industrial Hygienist, Richmond



Chadwick Bowman  
Manager, Richmond Operations

Appendices:  
Appendix A –EHS Laboratory Reports



Environmental Hazards Services, L.L.C.  
 7469 Whitepine Rd  
 Richmond, VA 23237  
 Telephone: 800.347.4010

## Lead in Drinking Water Analysis Report

Client: The EI Group Inc. - Glen Allen  
 4186 Innslake Dr  
 Glen Allen, VA 23060

Report Number: 19-04-03195  
 Received Date: 04/19/2019  
 Reported Date: 04/25/2019  
 Sampled By: Bowman/Monger  
 Tech Certification #:

Project/Test Address: Prince George High School; 7801 Laurel Spring Road; Prince George, VA  
 23875

Client Number:  
 48-1920

# Laboratory Results

Fax Number:  
 804-320-9302

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03195-001	PGH-1	04/19/2019	GIRLS LOCKER ROOM OFFICE SINK	3.33	04/23/2019	
19-04-03195-002	PGH-2	04/19/2019	ROOM B8 SINK	311	04/23/2019	
19-04-03195-003	PGH-3	04/19/2019	KITCHEN RINSE SINK	1.85	04/23/2019	
19-04-03195-004	PGH-4	04/19/2019	KITCHEN SINK	<1.00	04/23/2019	
19-04-03195-005	PGH-5	04/19/2019	GIRLS LOCKER ROOM FOUNTAIN	<1.00	04/23/2019	
19-04-03195-006	PGH-6	04/19/2019	FACULTY 1A SINK	2.46	04/23/2019	
19-04-03195-007	PGH-7	04/19/2019	D WINKG HALL FOUNTAIN BY CAFÉ	<1.00	04/23/2019	
19-04-03195-008	PGH-8	04/19/2019	ROOM F1 SINK	25.0	04/23/2019	
19-04-03195-009	PGH-9	04/19/2019	CLINIC BATHROOM SINK	1.05	04/23/2019	
19-04-03195-010	PGH-10	04/19/2019	ROOM D5 STORAGE SINK	77.9	04/23/2019	
19-04-03195-011	PGH-11	04/19/2019	F HALL BOYS FOUNTAIN	1.24	04/23/2019	
19-04-03195-012	PGH-12	04/19/2019	ROOM D11 SINK	12.2	04/23/2019	

# Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03195

Project/Test Address: Prince George High School; 7801 Laurel Spring Road;  
Prince George, VA 23875

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03195-013	PGH-13	04/19/2019	FACULTY D SINK	2.77	04/23/2019	
19-04-03195-014	PGH-14	04/19/2019	F HALL GIRLS FOUNTAIN	<1.00	04/23/2019	
19-04-03195-015	PGH-15	04/19/2019	ROOM D3 SINK	31.5	04/23/2019	
19-04-03195-016	PGH-16	04/19/2019	FACULTY B SINK	7.11	04/23/2019	
19-04-03195-017	PGH-17	04/19/2019	ROOM D9 SINK	14.0	04/23/2019	
19-04-03195-018	PGH-18	04/19/2019	F HALL CAFÉ BOYS FOUNTAIN	<1.00	04/23/2019	
19-04-03195-019	PGH-19	04/19/2019	BOYS LOCKER ROOM FOUNTAIN	<1.00	04/23/2019	
19-04-03195-020	PGH-20	04/19/2019	A WING HAL EXTENSION FOUNTAIN	5.63	04/23/2019	
19-04-03195-021	PGH-21	04/19/2019	A HALL FOUNTAIN AT ROOM A3	<1.00	04/23/2019	
19-04-03195-022	PGH-22	04/19/2019	A WING HALL FOUNTAIN BY A29	<1.00	04/23/2019	
19-04-03195-023	PGH-23	04/19/2019	D WING HALL FOUNTAIN GIRLS	<1.00	04/23/2019	
19-04-03195-024	PGH-24	04/19/2019	A WING HALL FOUNTAIN BY GIRLS	<1.00	04/23/2019	
19-04-03195-025	PGH-25	04/19/2019	ROOM B5 SINK	152	04/23/2019	
19-04-03195-026	PGH-26	04/19/2019	B WING HALL FOUNTAIN BY BOYS	<1.00	04/23/2019	
19-04-03195-027	PGH-27	04/19/2019	OFFICE SINK	1.59	04/23/2019	
19-04-03195-028	PGH-28	04/19/2019	B WING HALL FOUNTAIN AT TROPHIES	<1.00	04/23/2019	
19-04-03195-029	PGH-29	04/19/2019	ROOM D23 SINK	2.99	04/23/2019	
19-04-03195-030	PGH-30	04/19/2019	D WING HALL FOUNTAIN BOYS	<1.00	04/23/2019	
19-04-03195-031	PGH-31	04/19/2019	FACULTY 2 A SINK	2.26	04/23/2019	
19-04-03195-032	PGH-32	04/19/2019	CAFÉ FOUNTAIN F WING	<1.00	04/23/2019	

## Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03195

Project/Test Address: Prince George High School; 7801 Laurel Spring Road;  
Prince George, VA 23875

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03195-033	PGH-33	04/19/2019	CLINIC SINK	2.09	04/23/2019	
19-04-03195-034	PGH-34	04/19/2019	ROOM F18 SINK RIGHT	<1.00	04/23/2019	
19-04-03195-035	PGH-35	04/19/2019	CAFÉ FOUNTAIN F WING	1.09	04/23/2019	
19-04-03195-036	PGH-36	04/19/2019	ROOM F14 SINK	14.3	04/23/2019	
19-04-03195-037	PGH-37	04/19/2019	D7 STORAGE SINK	18.6	04/23/2019	
19-04-03195-038	PGH-38	04/19/2019	ROOM F15 FOUNTAIN	4.46	04/23/2019	
19-04-03195-039	PGH-39	04/19/2019	SPED F18 SINK BY FRIDGE	<1.00	04/23/2019	
19-04-03195-040	PGH-40	04/19/2019	GYM LOBBY MENS FOUNTAIN	<1.00	04/23/2019	
19-04-03195-041	PGH-41	04/19/2019	GYM LOBBY TEACHERS FOUNTAIN	<1.00	04/23/2019	
19-04-03195-042	PGH-42	04/19/2019	BOYS LOCKER ROOM OFFICE	<1.00	04/23/2019	
19-04-03195-043	PGH-43	04/19/2019	BOYS TEAM ROO FOUNTAIN	<1.00	04/23/2019	
19-04-03195-044	PGH-44	04/19/2019	GYM LOBBY STORAGE FOUNTAIN	<1.00	04/23/2019	
19-04-03195-045	PGH-45	04/19/2019	GYM LOBBY GIRLS FOUNTAIN	<1.00	04/23/2019	
19-04-03195-046	PGH-46	04/19/2019	ROOM F6 SINK	2.26	04/23/2019	
19-04-03195-047	PGH-47	04/19/2019	AUXILLARY GYM FOUNTAIN	<1.00	04/23/2019	
19-04-03195-048	PGH-48	04/19/2019	ROOM F7 SINK	11.9	04/23/2019	

# Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03195

Project/Test Address: Prince George High School; 7801 Laurel Spring Road;  
Prince George, VA 23875

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Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
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Method: SM 3113B-2010  
Analyst: Jennalee Zlotkowski  
Accreditation #: VA 460172

Reviewed By Authorized Signatory: *Melissa Kanode*

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*Missy Kanode*

QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contain less than the reporting limit which is 1 ppb.

The EPA Maximum Contaminant Level for Lead in Drinking Water is 15 ppb. The results herein conform to NELAC standards, where applicable, unless otherwise narrated on this report. Results represent the analysis of samples submitted by the client. Sample location, description, field parameter results, etc., were provided by the client. This report cannot be reproduced, except in full, without written approval from Environmental Hazards Services, L.L.C.

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LEGEND                      ug/L= micrograms per liter                      ppb = parts per billion

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Laboratories™

Environmental Hazards Services, LLC

# WATER

## Chain of Custody Form

7469 Whitepine Rd, Richmond, VA 23237

800-347-4010

Due Date:  
04/26/2019  
(Friday)  
ER

LH

Company Name: The EI Group Address: 4186 Innslake Dr  
 Phone: 804-320-9300 Email: cbowman@ei1.com Acct No: \_\_\_\_\_  
 School Name & Address: Prince George High School; 7801 Laurel Spring Road, Prince George, VA 23875  
 Collected By: Chad Bowman, Holly Monger PO# \_\_\_\_\_

Age of Property: \_\_\_\_\_ Water Source: X Public or \_\_\_\_\_ Well

**TURN AROUND TIME: 5 Days**

No.	Client Sample ID	Sample Location	Collection Date	Collection Time	AM	PM	Analyte
1	PGH-1	Girl's Locker Room Office Sink	4/19/2019				Pb
2	PGH-2	Room B8 Sink	4/19/2019				Pb
3	PGH-3	Kitchen Rinse Sink	4/19/2019				Pb
4	PGH-4	Kitchen Sink	4/19/2019				Pb
5	PGH-5	Girl's Locker Room Fountain	4/19/2019				Pb
6	PGH-6	Faculty 1A Sink	4/19/2019				Pb
7	PGH-7	D Wing Hall Fountain by Café	4/19/2019				Pb
8	PGH-8	Room F1 Sink	4/19/2019				Pb
9	PGH-9	Clinic Bathroom Sink	4/19/2019				Pb
10	PGH-10	Room D5 Storage Sink	4/19/2019				Pb
11	PGH-11	F Hall Boy's Fountain	4/19/2019				Pb
12	PGH-12	Room D11 Sink	4/19/2019				Pb
13	PGH-13	Faculty D Sink	4/19/2019				Pb
14	PGH-14	F Hall Girl's Fountain	4/19/2019				Pb
15	PGH-15	Room D3 Sink	4/19/2019				Pb
16	PGH-16	Faculty B Sink	4/19/2019				Pb
17	PGH-17	Room D9 Sink	4/19/2019				Pb
18	PGH-18	F Hall Café Boy's Fountain	4/19/2019				Pb
19	PGH-19	Boy's Locker Room Fountain	4/19/2019				Pb
20	PGH-20	A Wing Hall Extension Fountain	4/19/2019				Pb
21	PGH-21	A Hall Fountain at Room A3	4/19/2019				Pb
22	PGH-22	A Wing Hall Fountain by A29	4/19/2019				Pb
23	PGH-23	D Wing Hall Fountain Girls	4/19/2019				Pb
24	PGH-24	A Wing Hall Fountain by Girls	4/19/2019				Pb
25	PGH-25	Room B5 Sink	4/19/2019				Pb
26	PGH-26	B Wing Hall Fountain by Boys	4/19/2019				Pb
27	PGH-27	Office Sink	4/19/2019				Pb
28	PGH-28	B Wing Hall Fountain at Trophies	4/19/2019				Pb
29	PGH-29	Room D23 Sink	4/19/2019				Pb
30	PGH-30	D Wing Hall Fountain Boys	4/19/2019				Pb
31	PGH-31	Faculty 2A Sink	4/19/2019				Pb
32	PGH-32	Café Fountain F Wing	4/19/2019				Pb
33	PGH-33	Clinic Sink	4/19/2019				Pb
34	PGH-34	Room F18 Sink Right	4/19/2019				Pb
35	PGH-35	Café Fountain B Wing	4/19/2019				Pb
36	PGH-36	Room F14 Sink	4/19/2019				Pb
37	PGH-37	D7 Storage Sink	4/19/2019				Pb
38	PGH-38	Room F15 Fountain	4/19/2019				Pb
39	PGH-39	SPED F18 Sink by Fridge	4/19/2019				Pb
40	PGH-40	Gym Lobby Mens Fountain	4/19/2019				Pb
41	PGH-41	Gym Lobby Teachers Fountain	4/19/2019				Pb
42	PGH-42	Boys Locker Room Office	4/19/2019				Pb
43	PGH-43	Boys Team Room Fountain	4/19/2019				Pb
44	PGH-44	Gym Lobby Storage Fountain	4/19/2019				Pb
45	PGH-45	Gym Lobby Girls Fountain	4/19/2019				Pb
46	PGH-46	Room F6 Sink	4/19/2019				Pb
47	PGH-47	Auxillary Gym Fountain	4/19/2019				Pb
48	PGH-48	Room F7 Sink	4/19/2019				Pb
49			4/19/2019				Pb
50			4/19/2019				Pb

Released By: Holly Monger Date & Time 4/19/19 Signature: Holly Monger  
 Received By: T. Bohannon Date & Time 4/19/19 5p Signature: \_\_\_\_\_