

May 20, 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.: ENR190006.03**

Dear Ms. Munford:

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

- Prince George High 7801 Laurel Spring Rd., Prince George, VA 23875

This survey was performed by Ms. Holly Monger, an Industrial Hygienist for EI, on May 10, 2019. The purpose of this assessment was to resample the drinking water for the above building, which contained nine (9) lead samples in excess of the regulated levels following a previous analysis on April 19, 2019.

During the assessment, nine (9) samples were collected which were used for drinking or cooking. The samples were sealed in their own plastic jars 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 indicated lead content for the samples were below regulatory limits, with the exception of one (1) sample for the B2 & B4 Storage Room sink. See Table 1: Drinking Water Sampling Results, below for the 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 second draw (follow-up flush). 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. Follow-up flush refers to collecting a water sample after letting the water run at a pencil width for 30 seconds. Six (6) samples were collected as second draw and three (3) samples were collected as first draw due to not having access to those samples during the initial sampling period on April 19, 2019. The three first draw samples were taken from the Guidance Office Kitchen sink, Room B2 & B4 Storage Room sink, and the Library Kitchen sink.

## Sample Results

The water sampling was conducted by the EI Group on May 10, 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 below 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.

Table 1: Lead Drinking Water Sampling Results Prince George High School – Prince George County Schools Survey Date: May 10, 2019			
Sample No.	Sample Location	Result (ppb)	Exceedance
PGH-1	Room B8 Sink	14.5	NO
PGH-2	D5 Storage Room Sink	1.90	NO
PGH-3	D7 Storage Room Sink	<1.00	NO
PGH-4	Room D3 Sink	2.45	NO
PGH-5	Room B5 Sink	4.64	NO
PGH-6	Room F1 Sink	<1.00	NO
PGH-7	Guidance Office Kitchen Sink	2.48	NO
PGH-8	<b>Room B2 &amp; B4 Storage Room Sink</b>	<b>31.6</b>	<b>YES</b>
PGH-9	Library Kitchen Sink	<1.00	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 sink located in the B2 & B4 Storage Room, EI recommends follow-up flush sampling in order to pinpoint the source (fixtures, or interior plumbing) of the 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.

If the sink located in Room B2 and B4 Storage is not used for drinking or cooking purposes, EI has no further recommendations regarding lead in water sampling for Prince George High School at this time.

## 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: 19-05-01692  
 Received Date: 05/10/2019  
 Reported Date: 05/13/2019  
 Sampled By: Holly Monger  
 Tech Certification #:

Project/Test Address: Prince George High School; 7801 Laurel Spring Rd; 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
19-05-01692-001	PGH-1	05/10/2019	ROOM B8 SINK	14.5	05/13/2019	
19-05-01692-002	PGH-2	05/10/2019	D5 STORAGE ROOM SINK	1.90	05/13/2019	
19-05-01692-003	PGH-3	05/10/2019	D7 STORAGE ROOM SINK	<1.00	05/13/2019	
19-05-01692-004	PGH-4	05/10/2019	ROOM D3 SINK	2.45	05/13/2019	
19-05-01692-005	PGH-5	05/10/2019	ROOM B5 SINK	4.64	05/13/2019	
19-05-01692-006	PGH-6	05/10/2019	ROOM F1 SINK	<1.00	05/13/2019	
19-05-01692-007	PGH-7	05/10/2019	GUIDANCE OFFICE KITCHEN SINK	2.48	05/13/2019	
19-05-01692-008	PGH-8	05/10/2019	ROOM B2 & B4 STORAGE RM SINK	31.6	05/13/2019	
19-05-01692-009	PGH-9	05/10/2019	LIBRARY KITCHEN SINK	<1.00	05/13/2019	

# Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-05-01692

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

---

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
-------------------	------------------	-----------------	---------------------	--------------------------	---------------	--------------

---

Method: SM 3113B-2010  
Analyst: Jennalee Zlotkowski  
Accreditation #: VA 460172

Reviewed By Authorized Signatory: *Melissa Kanode*

---

*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.

---

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

---



# Lead Chain-of-Custody Form

SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237

Phone: (800) 347-4010 FAX: (804) 275-4907

ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT:

Environmental Hazards Services, LLC

www.leadlab.com

Company Name: The EI Group Account Number: \_\_\_\_\_

Address: 4186 Innslake Dr. City/State/Zip: Glen Allen, VA 23060

Phone: 804-385-2102 Email: hmonger@ei1.com Fax: \_\_\_\_\_

cbowman@ei1.com

Project Name / Testing Address: Prince George High School, 7801 Laurel Spring Rd. Project City/State (Required): Prince George, VA 23875

Collected By: Holly Monger Certification Number: \_\_\_\_\_ P.O. #: \_\_\_\_\_

Do wipe samples submitted meet ASTM E1792 requirements? Yes No

### Sample Type - Key For Grid

Single Dust Wipe = DW Air = A  
Paint Chip = PC Soil = S  
Composite Soil = CS

### Sample Location Abbreviations - Key For Grid

F = Front 1 = 1<sup>st</sup>FL BA = Bath BR = Bedroom  
R = Rear 2 = 2<sup>nd</sup>FL DR = Dining Room O = Basement  
LT = Left RT = Right KT = Kitchen

### Surface Type for Dust Wipes - Key For Grid

FL = Floor SL = Window Sill  
CP = Carpet WW = Window Well

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 DAY TAT.

No.	Client Sample ID	Collection Date Time	Sample Type	Collection Location (LR, KT, LTFBR, RTRBR, etc.)	Surface Type		Air		Comments
					Area	Paint Chip	Total Time (minutes)	Flow Rate (L/min)	
1	PGH-1	05/10/19	Pb	Room B8 Sink	X				
2	PGH-2			D5 Storage Room Sink	X				
3	PGH-3			D7 Storage Room Sink	X				
4	PGH-4			Room D3 Sink	X				
5	PGH-5			Room B5 Sink	X				
6	PGH-6			Room F1 Sink	X				
7	PGH-7			Guidance Office Kitchen Sink	X				
8	PGH-8			Room B2 & B4 Storage RM Sink	X				
9	PGH-9			Library Kitchen Sink	X				
10					X				

1 Day

2 Day

3 Day

\* Same Day - Must Call Ahead

\* Weekend - Must Call Ahead

Released by: Holly Monger

Received by: CP

Signature: Holly Monger

Signature: \_\_\_\_\_

Date/Time: 05/10/19

Date/Time: \_\_\_\_\_