

# Evaluation of Lead in Drinking Water at Scranton High School

63 Mike Munchak Way  
Scranton, PA 18508

Prepared for:

SCRANTON SCHOOL DISTRICT  
425 N. Washington Ave.  
Scranton, PA 18503



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## INTRODUCTION

Under the 2018 Act 39 Pennsylvania School Code (Section 742) beginning in the 2018-2019 school year and every year thereafter, School Districts in Pennsylvania shall either analyze their drinking water for lead or conduct public meetings to discuss why testing was not conducted.

## BACKGROUND

Lead is a naturally occurring heavy metal that is toxic when ingested or absorbed into the body. Children in particular are more susceptible to lead poisoning because they absorb more lead into their systems as they grow.

According to the United States Environmental Protection Agency (EPA), “even low levels of lead in the blood of children can result in:

- Behavior and learning problems
- Lower IQ and Hyperactivity
- Slowed growth
- Hearing problems
- Anemia

In rare cases, ingestion of lead can cause seizures, coma and even death” (Available at [www.epa.gov/lead/learn-about-lead](http://www.epa.gov/lead/learn-about-lead), April 4, 2016). Although, there are several ways that lead poisoning can occur in children, this report evaluates potential lead exposure only from drinking water within the **Scranton High School**.

There are basically two (2) ways in which lead can enter drinking water. The first and least common route would be lead that is present in the source water. This route is extremely rare and would only be addressed if high levels of lead were discovered in the secondary flushed samples.

The second route for lead to enter drinking water (and most common), would be lead that has been leached out of the plumbing material as water passes through it. Although lead is no longer used in pipes or solder, it can still be found in older fittings, fixtures, and plumbing components. The ability of water to leach chemicals from piping and plumbing materials is known as corrosivity. Therefore, the more corrosive the water, the more potential there is for lead to be leached out of the plumbing material. Additionally, as the length of time the water is in contact with the plumbing material increases, so does the potential for the leaching of lead.

## **SAMPLING PROCEDURES**

Both the Environmental Protection Agency [EPA] and the Pennsylvania Department of Environmental Protection Agency [PADEP] have programs to evaluate and reduce the concentration of lead in drinking water. The Federal (EPA) Program, the **3Ts for Reducing Lead in Drinking Water**, was developed for schools and daycare centers. The State (PADEP) Program is directed toward public drinking water suppliers (*Lead Copper Rule, 1991*). The programs differ slightly in sample quantity. However, because EPA's program is geared specifically toward schools, EPA's 3Ts sampling protocols were utilized.

A lead sampling plan was developed by Guzek Associates, Inc. [GAI] with the assistance of school maintenance staff in accordance with **EPA's 3Ts for Reducing Lead in Drinking Water Toolkit** (available at: [www.epa.gov/ground-water-and-drinking-water/3ts-reducing-lead-drinking-water-toolkit](http://www.epa.gov/ground-water-and-drinking-water/3ts-reducing-lead-drinking-water-toolkit)). Representative samples of water fountains and/or faucets with the likelihood of ingestion by children were located and sampled. For example, if a classroom has two identical water fountains, only one was sampled; or, if a faucet was located in a maintenance room where children had no access, it would not be sampled.

One sample was taken at each designated location at the Scranton High School, according to EPA's 3T's Toolkit sampling protocols. The sample was taken under worst case scenario condition. All samples were taken as First Draw after the water sat (unused) in the pipes for a minimum of eight (8) hours.

Clean/new sample bottles containing a preservative were supplied by a local laboratory. Samples were transported to the laboratory on ice within the specified holding times.

## SAMPLE RESULTS

The sample results were compared to both EPA's Remediation Trigger Level [RTL] of 0.020 mg/l and PADEP's Lead Action Level of 0.015 mg/l.

The following table summarizes the First Draw lead results sampled on December 26, 2019 from the Scranton High School:

Sample ID:	Sample Location Description:	Lead Concentration (mg/l)	Lead RTL* (mg/l)	Lead Action Level** (mg/l)	Exceeds Action Level
SHS-01	3 <sup>rd</sup> Floor, Teachers Lounge – Sink	0.001	0.020	0.015	No
SHS-02	3 <sup>rd</sup> Floor, "A" Wing – Water Fountain	<0.001	0.020	0.015	No
SHS-03	2 <sup>nd</sup> Floor, "A" Wing – Water Fountain	<0.001	0.020	0.015	No
SHS-04	2 <sup>nd</sup> Floor, Teachers Lounge – Sink	0.001	0.020	0.015	No
SHS-05	2 <sup>nd</sup> Floor, "B" Wing – Water Fountain	<0.001	0.020	0.015	No
SHS-06	2 <sup>nd</sup> Floor, "C" Wing – Right Water Fountain	<0.001	0.020	0.015	No
SHS-07	2 <sup>nd</sup> Floor, Main Office – Sink	0.001	0.020	0.015	No
SHS-08	2 <sup>nd</sup> Floor, Cafeteria – Left Water Fountain	<0.001	0.020	0.015	No
SHS-09	2 <sup>nd</sup> Floor, Cafeteria – Right Water Fountain	<0.001	0.020	0.015	No
SHS-10	2 <sup>nd</sup> Floor, Kitchen (Deli) – Left Sink	0.002	0.020	0.015	No
SHS-11	2 <sup>nd</sup> Floor, Kitchen (Deli) – Right Sink	0.002	0.020	0.015	No
SHS-12	2 <sup>nd</sup> Floor, Kitchen (Taco) – Left Sink	0.002	0.020	0.015	No
SHS-13	2 <sup>nd</sup> Floor, Kitchen (Taco) – Right Sink	0.002	0.020	0.015	No
SHS-14	2 <sup>nd</sup> Floor, Kitchen (Taco) – Ice Machine	<0.001	0.020	0.015	No
SHS-15	2 <sup>nd</sup> Floor, Kitchen Main Cooking Area – Left Sink	<0.001	0.020	0.015	No
SHS-16	2 <sup>nd</sup> Floor, Kitchen Main Cooking Area – Kettle Left	0.003	0.020	0.015	No
SHS-17	2 <sup>nd</sup> Floor, Kitchen Main Cooking Area – Kettle Right	0.007	0.020	0.015	No
SHS-18	2 <sup>nd</sup> Floor, Kitchen – (Right Side) Prep Sink	<0.001	0.020	0.015	No
SHS-19	2 <sup>nd</sup> Floor, Medical Room (Treatment Room) – Sink	<0.001	0.020	0.015	No
SHS-20	2 <sup>nd</sup> Floor, Medical Break Room – Sink	<0.001	0.020	0.015	No
SHS-21	2 <sup>nd</sup> Floor, Room 246 – Sink	<0.001	0.020	0.015	No
SHS-22	2 <sup>nd</sup> Floor, Guidance Office – Sink	0.001	0.020	0.015	No
SHS-23	No Sample	-	-	-	-
SHS-24	1 <sup>st</sup> Floor, "A" Wing – Water Fountain	<0.001	0.020	0.015	No
SHS-25	1 <sup>st</sup> Floor, Training Room – Ice Machine	<0.001	0.020	0.015	No
SHS-26	1 <sup>st</sup> Floor, Training Room – Sink	0.004	0.020	0.015	No
SHS-27	2 <sup>nd</sup> Floor, Room 245 – Sink	<0.001	0.020	0.015	No
SHS-28	No Sample	-	-	-	-
SHS-29	2 <sup>nd</sup> Floor, "C" Wing – Left Water Fountain	<0.001	0.020	0.015	No
SHS-30	2 <sup>nd</sup> Floor, Room 264 – Sink	<0.001	0.020	0.015	No

\* RTL is defined by EPA as the level at which remedial action should be taken to reduce potential exposure to lead in public school drinking water.

\*\* Action Level is defined by EPA as the level at which action should be taken to reduce the concentration of lead in drinking water.

## **SAMPLE RESULTS – Continued**

If any sample result exceeded PADEP's Action Level (which is the most stringent), the School was contacted and it was recommended that the fountain/faucet be immediately taken out of service or signage be posted stating, "NOT FOR DRINKING/COOKING".

No samples exceeded either EPA's Remediation Trigger Level [RTL] of 0.020 mg/l and PADEP's Lead Action Level of 0.015 mg/l.

The Laboratory Analytical Reports (with Chain-of-Custody Forms) are found in Appendix A of this report.

## **RECOMMENDATIONS**

As previously stated, if a sample concentration of 0.015 mg/l of lead was exceeded, GAI contacted the School District and it was recommended that the drinking fountain or faucet of concern be immediately taken out of service or signage be posted stating, "NOT FOR DRINKING/COOKING". If no sample results exceeded the PADEP's Action Level or EPA's RTL, no remediation action was recommended.

As permanent control measure, GAI recommends the following:

- 1). Any fountain or faucet used for drinking with elevated lead content should be permanently removed and replaced with a bottled water cooler.
- 2). It is strongly recommended that any faucet with elevated lead be immediately taken out of service or be posted "NOT FOR DRINKING/COOKING". Because there is a possibility that Lead may be present in faucets that have not been tested, it is therefore recommended that untested faucets be posted as well. Postings should be inspected monthly and replaced as needed.
- 3). As a safeguard, a schedule of flushing drinking water fountains and cooking faucets should be established by the School at the beginning of each school year and after long holidays (e.g. Christmas/New Year, Thanksgiving).
- 4). Results of lead sampling and remediation actions should be posted on the School District's Website and in the Administrative Offices of the School. Also, according to the PA Public School Code No. 2018-39, an elevated lead level "shall be reported to the Department of Education and posted on the Department's publicly accessible Internet Website".

## **APPENDIX A: SAMPLE CHAIN OF CUSTODY & ANALYTICAL RESULTS**



201 West Clay Avenue / Hazle Township, PA 18202

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### Report Narrative

Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

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HawkMtn WO #: 1912-00990  
Subject Line: Scranton High School Drinking Water Lead Analysis

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Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc. and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.

PA DEP 40-417 EPA PA00169
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201 West Clay Avenue / Hazle Township, PA 18202

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**Certificate of Analysis**

Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 8:54  
Date Received: 12/30/2019  
Client Sample ID: SHS-01, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-001  
Sampler: CLIENT  
Sample Point ID: SHS-01

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00123 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 8:54  
Date Received: 12/30/2019  
Client Sample ID: SHS-02, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-002  
Sampler: CLIENT  
Sample Point ID: SHS-02

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:00  
Date Received: 12/30/2019  
Client Sample ID: SHS-03, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-003  
Sampler: CLIENT  
Sample Point ID: SHS-03

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:01  
Date Received: 12/30/2019  
Client Sample ID: SHS-04, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-004  
Sampler: CLIENT  
Sample Point ID: SHS-04

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00121 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

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**Certificate of Analysis**

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401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-05, Drinking Water Lead Analysis

Time Sampled: 9:02

HawkMtn WO #: 1912-00990-005  
Sampler: CLIENT  
Sample Point ID: SHS-05

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-06, Drinking Water Lead Analysis

Time Sampled: 9:04

HawkMtn WO #: 1912-00990-006  
Sampler: CLIENT  
Sample Point ID: SHS-06

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-07, Drinking Water Lead Analysis

Time Sampled: 9:23

HawkMtn WO #: 1912-00990-007  
Sampler: CLIENT  
Sample Point ID: SHS-07

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00105 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-08, Drinking Water Lead Analysis

Time Sampled: 9:06

HawkMtn WO #: 1912-00990-008  
Sampler: CLIENT  
Sample Point ID: SHS-08

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

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Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:06  
Date Received: 12/30/2019  
Client Sample ID: SHS-09, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-009  
Sampler: CLIENT  
Sample Point ID: SHS-09

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:08  
Date Received: 12/30/2019  
Client Sample ID: SHS-10, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-010  
Sampler: CLIENT  
Sample Point ID: SHS-10

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00177 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:08  
Date Received: 12/30/2019  
Client Sample ID: SHS-11, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-011  
Sampler: CLIENT  
Sample Point ID: SHS-11

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00157 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:08  
Date Received: 12/30/2019  
Client Sample ID: SHS-12, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-012  
Sampler: CLIENT  
Sample Point ID: SHS-12

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00185 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

PA DEP 40-417  
EPA PA00169



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**Certificate of Analysis**

Customer: Guzek Associates, Inc.  
401 Davis Street  
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Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:08  
Date Received: 12/30/2019  
Client Sample ID: SHS-13, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-013  
Sampler: CLIENT  
Sample Point ID: SHS-13

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00246 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:10  
Date Received: 12/30/2019  
Client Sample ID: SHS-14, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-014  
Sampler: CLIENT  
Sample Point ID: SHS-14

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:12  
Date Received: 12/30/2019  
Client Sample ID: SHS-15, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-015  
Sampler: CLIENT  
Sample Point ID: SHS-15

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:13  
Date Received: 12/30/2019  
Client Sample ID: SHS-16, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-016  
Sampler: CLIENT  
Sample Point ID: SHS-16

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00299 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

PA DEP 40-417  
EPA PA00169



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**Certificate of Analysis**

Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-17, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-017  
Sampler: CLIENT  
Sample Point ID: SHS-17

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00721 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-18, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-018  
Sampler: CLIENT  
Sample Point ID: SHS-18

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-19, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-019  
Sampler: CLIENT  
Sample Point ID: SHS-19

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-20, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-020  
Sampler: CLIENT  
Sample Point ID: SHS-20

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

PA DEP 40-417  
EPA PA00169



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

www.hawkmtnlabs.com

**Certificate of Analysis**

Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:21  
Date Received: 12/30/2019  
Client Sample ID: SHS-21, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-021  
Sampler: CLIENT  
Sample Point ID: SHS-21

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:20  
Date Received: 12/30/2019  
Client Sample ID: SHS-22, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-022  
Sampler: CLIENT  
Sample Point ID: SHS-22

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00101 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 8:54  
Date Received: 12/30/2019  
Client Sample ID: SHS-23, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-023  
Sampler: CLIENT  
Sample Point ID: SHS-23

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Not Sampled			0				0:00	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:35  
Date Received: 12/30/2019  
Client Sample ID: SHS-24, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-024  
Sampler: CLIENT  
Sample Point ID: SHS-24

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

PA DEP 40-417  
EPA PA00169



201 West Clay Avenue / Hazle Township, PA 18202

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**Certificate of Analysis**

Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 8:49  
Date Received: 12/30/2019  
Client Sample ID: SHS-25, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-025  
Sampler: CLIENT  
Sample Point ID: SHS-25

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 8:46  
Date Received: 12/30/2019  
Client Sample ID: SHS-26, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-026  
Sampler: CLIENT  
Sample Point ID: SHS-26

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00364 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 9:28  
Date Received: 12/30/2019  
Client Sample ID: SHS-27, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-027  
Sampler: CLIENT  
Sample Point ID: SHS-27

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019 Time Sampled: 8:54  
Date Received: 12/30/2019  
Client Sample ID: SHS-28, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00990-028  
Sampler: CLIENT  
Sample Point ID: SHS-28

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Not Sampled			0				0:00	

PA DEP 40-417  
EPA PA00169

## Certificate of Analysis

Customer: Guzek Associates, Inc.  
401 Davis Street  
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-29, Drinking Water Lead Analysis

Time Sampled: 9:00

HawkMtn WO #: 1912-00990-029  
Sampler: CLIENT  
Sample Point ID: SHS-29

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water  
Date Sampled: 12/26/2019  
Date Received: 12/30/2019  
Client Sample ID: SHS-30, Drinking Water Lead Analysis

Time Sampled: 9:30

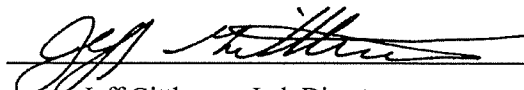
HawkMtn WO #: 1912-00990-030  
Sampler: CLIENT  
Sample Point ID: SHS-30

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

ND = Non Detect

These results relate only to the sample noted above.

This certificate is not to be reproduced except in full,  
without the written approval of HawkMtn Labs

  
Jeff Gittleman, Lab Director



Work Order #: 1912-00990 Purchase Order:  
Site Name: Guzek Associates, Inc.  
Contact: learl.gai@gmail.com

Chain of Custody & Analysis Record  
HawkMtn Labs, Inc.  
201 West Clay Ave, Hazle Township, PA 18202  
Ph.(570) 455-6011 Fax (570) 455-6321

Pick Up Date:

Page 1 of 3

Approved By: ALP  
Checked By: W

Printed By: ALP  
Bottles made by: CH

<b>Composite</b>	
Start Date:	Time:
End Date:	Time:
<b>Grab</b>	
Date:	Time:
Date:	Time:
Date:	Time:
Date:	Time:

Smp#	Bottle	Preservative	Revd	Smp#	Bottle	Preservative	Revd
001	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	010	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
002	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	011	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
003	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	012	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
004	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	013	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
005	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	014	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
006	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	015	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
007	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	016	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
008	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	017	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>
009	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>	018	Copper/Lead H-Graduated	HNO3	<input checked="" type="checkbox"/>

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
001	SHS-01, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.8 °C	12/26/19	8:54			°C
002	SHS-02, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.10 °C		8:54			°C
003	SHS-03, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.10 °C		9:00			°C
004	SHS-04, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.5 °C		9:01			°C
005	SHS-05, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.5 °C		9:08			°C
006	SHS-06, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.5 °C		9:08			°C
007	SHS-07, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.4 °C		9:23			°C
008	SHS-08, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.3 °C		9:06			°C
009	SHS-09, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.3 °C		9:06			°C
010	SHS-10, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.2 °C		9:08			°C

Receipt Info: Received on ice? ☒ Y / ☐ N  
Samples intact? ☒ Y / ☐ N  
COC intact and complete? ☒ Y / ☐ N  
Correct containers? ☒ Y / ☐ N  
Adequate samples? ☒ Y / ☐ N  
Volatiles: Headspace present? ☒ Y / ☐ N  
Completed by: 288  
Samples/COC/Analysis agree? ☒ Y / ☐ N

Sampled By: Brest m Tapp / Clinic Administrator  
Field Meter ID: NIX  
Date: 12/30/19 Time: 10:40

Notes: While out applied by client before receipt at HML.  
RELINQUISHED BY: Brest m Tapp  
RECEIVED BY: Brest m Tapp  
RELINQUISHED BY: Brest m Tapp  
RECEIVED AT LAB: 12/30/19  
LOGGED IN AT LAB: 12/30/19

Work Order #: 1912-00990 Purchase Order:  
Site Name: Guzek Associates, Inc.  
Contact: learl.gai@gmail.com

Chain of Custody & Analysis Record  
HawkMtn Labs, Inc.  
201 West Clay Ave, Hazle Township, PA 18202  
Ph. (570) 455-6011 Fax (570) 455-6321

Pick Up Date: 9/11 Page 2 of 3  
Printed By: ARP Approved By: ARP  
Bottles made by: ARP Checked By: W

**Composite**  
Start Date: \_\_\_\_\_ Time: \_\_\_\_\_  
End Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Grab**  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

019-030:250ml Plastic HNO3

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
011	SHS-11, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-1 °C	12/26/19	9:08 AM			°C
012	SHS-12, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-1 °C		9:08			°C
013	SHS-13, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-1 °C		9:08			°C
014	SHS-14, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-2 °C		9:10			°C
015	SHS-15, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-2 °C		9:12			°C
016	SHS-16, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-2 °C		9:13			°C
017	SHS-17, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-2 °C		9:13			°C
018	SHS-18, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-1 °C		9:14			°C
019	SHS-19, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-3 °C		9:29			°C
020	SHS-20, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10-4 °C		9:30			°C

**Receipt Info:** Received on ice? ☒ Y / ☐ N COC intact and complete? ☒ Y / ☐ N  
Samples intact? ☒ Y / ☐ N Correct containers? ☒ Y / ☐ N  
Adequate samples? ☒ Y / ☐ N Volatiles: Headspace present? ☒ Y / ☐ N  
Completed by: 28 Samples/COC/Analysis agree? ☒ Y / ☐ N

Sampled By: Dr. T. Tipp / Chris Notari  
Field Meter ID: N/A  
Notes:

RELINQUISHED BY: Boston Date: 12/30/19 Time: 1140  
RECEIVED BY: \_\_\_\_\_

RELINQUISHED BY: J. Notari Date: 12/30/19 Time: 1140  
RECEIVED AT LAB: Boston Date: 12/30/19 Time: 1405  
LOGGED IN AT LAB: \_\_\_\_\_

All samples taken in 250mL plastic HNO3 preserved bottles.

Work Order #: 1912-00990 Purchase Order:  
Site Name: Guzek Associates, Inc.  
Contact: learl.gai@gmail.com

Chain of Custody & Analysis Record  
HawkMtn Labs, Inc.  
201 West Clay Ave, Hazle Township, PA 18202  
Ph.(570) 455-6011 Fax (570) 455-6321

Pick Up Date: 12/26/19 Page 3 of 3  
Printed By: ALP Approved By: ALP  
Bottles made by: CLT Checked By: LM

<b>Composite</b>	
Start Date:	Time:
End Date:	Time:
<b>Grab</b>	
Date:	Time:
Date:	Time:
Date:	Time:
Date:	Time:

Smp #	Smp Site	Matrix/ Smp Type		Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Temp
		Potable Water	Drinking Water Lead							
021	SHS-21, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.6 °C	12/26/19	9:21 AM			mg/L °C
022	SHS-22, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.10 °C		9:20			mg/L °C
023	SHS-23, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS						mg/L °C
024	SHS-24, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.8 °C		9:35			mg/L °C
025	SHS-25, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.9 °C		8:49			mg/L °C
026	SHS-26, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.9 °C		8:46			mg/L °C
027	SHS-27, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.9 °C		9:28			mg/L °C
028	SHS-28, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS						mg/L °C
029	SHS-29, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS						mg/L °C
030	SHS-30, Drinking Water Analysis	Potable Water	Drinking Water Lead	DW-PB-MS	10.8 °C		9:00			mg/L °C
					11.1 °C		9:30			mg/L °C

<b>Receipt Info:</b> Received on ice? <u>Y</u> Samples intact? <u>Y</u>		COC intact and complete? <u>Y</u> Correct containers? <u>Y</u>		Adequate samples? <u>Y</u> Volatiles: Headspace present? <u>Y</u>		Completed by: <u>CLT</u> Samples/COC/Analysis agree? <u>Y</u>		Date: <u>12/30/19</u> Time: <u>11:40</u>	
Sampled By: <u>Brent Flipp / Chris Notari</u>		Field Meter ID: <u>N/A</u>		RELINQUISHED BY: <u>Brent Flipp</u>		RECEIVED BY: <u>Forrest</u>		RECEIVED AT LAB: <u>12/30/19</u>	
Notes: <u>Sample 30 is preserved</u>								LOGGED IN AT LAB: <u>12/30/19</u>	

12/11/2019

All samples taken in 250mL plastic HNO3 preserved bottles.