

Evaluation of Lead in Drinking Water at Isaac Tripp Elementary School

1000 N. Everett Avenue
Scranton, PA 18504

Prepared for:

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

Prepared by:



GAI Job No.: SSD.19_673

Sample Date: December 26, 2019
Report Date: January 21, 2020

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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, 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 **Isaac Tripp Elementary 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). 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 Isaac Tripp Elementary 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 Isaac Tripp Elementary School:

Sample ID:	Sample Location Description:	Lead Concentration (mg/l)	Lead RTL* (mg/l)	Lead Action Level** (mg/l)	Exceeds Action Level
TRIPP-01	1 st Floor, Kitchen (Next to Beverage fridge) – 2 Bay Wash Sink	0.001	0.020	0.015	No
TRIPP-02	1 st Floor, Kitchen – Behind Cashier, Sink	<0.001	0.020	0.015	No
TRIPP-03	1 st Floor, Kitchen – Kettle Left	<0.001	0.020	0.015	No
TRIPP-04	1 st Floor, Kitchen – Kettle Right	<0.001	0.020	0.015	No
TRIPP-05	1 st Floor, Kitchen – Rear Sink	0.002	0.020	0.015	No
TRIPP-06	1 st Floor, Cafeteria – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-07	1 st Floor, Cafeteria – Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-08	1 st Floor, Hallway Main Office – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-09	1 st Floor, Hallway Main Office – Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-10	1 st Floor, Faculty Room Restroom – Sink	<0.001	0.020	0.015	No
TRIPP-11	1 st Floor, Faculty Room – Water Fountain	0.010	0.020	0.015	No
TRIPP-12	1 st Floor, Faculty Room – Sink	<0.001	0.020	0.015	No
TRIPP-13	1 st Floor, Room 119 – Water Fountain	0.002	0.020	0.015	No
TRIPP-14	1 st Floor, Room 119 – Sink	<0.001	0.020	0.015	No
TRIPP-15	1 st Floor, Health Room – (Exterior) Water Fountain	0.002	0.020	0.015	No
TRIPP-16	1 st Floor, Health Room – (Exterior) Sink	<0.001	0.020	0.015	No
TRIPP-17	1 st Floor, Library – Sink	0.004	0.020	0.015	No
TRIPP-18	1 st Floor Hallway (Near Boy's & Girl's Lav) Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-19	1 st Floor Hallway (Near Boy's & Girl's Lav) Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-20	1 st Floor, Room 103 – Water Fountain	<0.001	0.020	0.015	No
TRIPP-21	1 st Floor, Room 103 – Sink	<0.001	0.020	0.015	No
TRIPP-22	1 st Floor Hallway, Outside Cafeteria – Left, Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-23	1 st Floor Hallway, Outside Cafeteria – Left, Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-24	NO SAMPLE	-	-	-	-
TRIPP-25	1 st Floor, Hallway, Outside Cafeteria – Right, Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-26	1 st Floor, Hallway, Outside Cafeteria – Right, Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-27	2 nd Floor, Hallway, Outside Elevator – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-28	2 nd Floor, Hallway, Outside Elevator – Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-29	2 nd Floor, Hallway (Center Stairs) – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-30	2 nd Floor, Hallway (Center Stairs) – Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-31	2 nd Floor, Room 207 – Water Fountain	<0.001	0.020	0.015	No

SAMPLE RESULTS – Continued

TRIPP-32	2 nd Floor, Room 207 – Sink	<0.001	0.020	0.015	No
TRIPP-33	3 rd Floor, Center Stairs – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-34	3 rd Floor, Center Stairs – Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-35	1 st Floor, Kitchen, Middle of the Room (Can Opener) – Sink	0.001	0.020	0.015	No
TRIPP-36	3 rd Floor, Hallway, Outside Elevator – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-37	3 rd Floor, Hallway, Outside Elevator – Short Water Fountain	<0.001	0.020	0.015	No
TRIPP-38	1 st Floor, Hallway (Center Stairs) – Tall Water Fountain	<0.001	0.020	0.015	No
TRIPP-39	1 st Floor, Hallway (Center Stairs) – Short Water Fountain	<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.

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

Report Narrative

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

Report Date: 1/17/2020

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HawkMtn WO #: 1912-00993
Subject Line: Tripp School Drinking Water Lead Analysis

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.

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: 7:52
Date Received: 12/30/2019
Client Sample ID: TRIPP-01, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-001
Sampler: Client
Sample Point ID: TRIPP-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	0.00113 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: 7:52
Date Received: 12/30/2019
Client Sample ID: TRIPP-02, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-002
Sampler: Client
Sample Point ID: TRIPP-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	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 7:55
Date Received: 12/30/2019
Client Sample ID: TRIPP-03, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-003
Sampler: Client
Sample Point ID: TRIPP-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	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 7:55
Date Received: 12/30/2019
Client Sample ID: TRIPP-04, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-004
Sampler: Client
Sample Point ID: TRIPP-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	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

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: 7:56
Date Received: 12/30/2019
Client Sample ID: TRIPP-05, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-005
Sampler: Client
Sample Point ID: TRIPP-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	0.00229 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: 7:58
Date Received: 12/30/2019
Client Sample ID: TRIPP-06, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-006
Sampler: Client
Sample Point ID: TRIPP-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	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 7:58
Date Received: 12/30/2019
Client Sample ID: TRIPP-07, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-007
Sampler: Client
Sample Point ID: TRIPP-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	<0.001 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: 8:00
Date Received: 12/30/2019
Client Sample ID: TRIPP-08, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-008
Sampler: Client
Sample Point ID: TRIPP-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	1/9/20 0:51	

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: 8:00
Date Received: 12/30/2019
Client Sample ID: TRIPP-09, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-009
Sampler: Client
Sample Point ID: TRIPP-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	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 8:01
Date Received: 12/30/2019
Client Sample ID: TRIPP-10, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-010
Sampler: Client
Sample Point ID: TRIPP-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	<0.001 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: 8:01
Date Received: 12/30/2019
Client Sample ID: TRIPP-11, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-011
Sampler: Client
Sample Point ID: TRIPP-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	0.0103 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: 8:01
Date Received: 12/30/2019
Client Sample ID: TRIPP-12, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-012
Sampler: Client
Sample Point ID: TRIPP-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	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

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: 8:03
Date Received: 12/30/2019
Client Sample ID: TRIPP-13, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-013
Sampler: Client
Sample Point ID: TRIPP-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	0.00158 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: 8:03
Date Received: 12/30/2019
Client Sample ID: TRIPP-14, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-014
Sampler: Client
Sample Point ID: TRIPP-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	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 8:04
Date Received: 12/30/2019
Client Sample ID: TRIPP-15, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-015
Sampler: Client
Sample Point ID: TRIPP-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	0.00212 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: 8:26
Date Received: 12/30/2019
Client Sample ID: TRIPP-16, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-016
Sampler: Client
Sample Point ID: TRIPP-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	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

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: 8:26
Date Received: 12/30/2019
Client Sample ID: TRIPP-17, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-017
Sampler: Client
Sample Point ID: TRIPP-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	0.00372 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: 8:07
Date Received: 12/30/2019
Client Sample ID: TRIPP-18, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-018
Sampler: Client
Sample Point ID: TRIPP-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 Time Sampled: 8:07
Date Received: 12/30/2019
Client Sample ID: TRIPP-19, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-019
Sampler: Client
Sample Point ID: TRIPP-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 Time Sampled: 8:08
Date Received: 12/30/2019
Client Sample ID: TRIPP-20, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-020
Sampler: Client
Sample Point ID: TRIPP-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	

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: 8:08
Date Received: 12/30/2019
Client Sample ID: TRIPP-21, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-021
Sampler: Client
Sample Point ID: TRIPP-21

Test Name	Test Results	Dilution Factor	Quant Limit	Method	Qual	Tech	Start Date/Time	End Date/Time
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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-22, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-022
Sampler: Client
Sample Point ID: TRIPP-22

Test Name	Test Results	Dilution Factor	Quant Limit	Method	Qual	Tech	Start Date/Time	End Date/Time
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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-23, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-023
Sampler: Client
Sample Point ID: TRIPP-23

Test Name	Test Results	Dilution Factor	Quant Limit	Method	Qual	Tech	Start Date/Time	End Date/Time
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: 7:52
Date Received: 12/30/2019
Client Sample ID: TRIPP-24, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-024
Sampler: Client
Sample Point ID: TRIPP-24

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

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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-25, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-025
Sampler: Client
Sample Point ID: TRIPP-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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-26, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-026
Sampler: Client
Sample Point ID: TRIPP-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	<0.001 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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-27, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-027
Sampler: Client
Sample Point ID: TRIPP-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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-28, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-028
Sampler: Client
Sample Point ID: TRIPP-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>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

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: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-29, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-029
Sampler: Client
Sample Point ID: TRIPP-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 Time Sampled: 8:10
Date Received: 12/30/2019
Client Sample ID: TRIPP-30, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-030
Sampler: Client
Sample Point ID: TRIPP-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	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 8:15
Date Received: 12/30/2019
Client Sample ID: TRIPP-31, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-031
Sampler: Client
Sample Point ID: TRIPP-31

<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: 8:15
Date Received: 12/30/2019
Client Sample ID: TRIPP-32, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-032
Sampler: Client
Sample Point ID: TRIPP-32

<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	

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: 8:17
Date Received: 12/30/2019
Client Sample ID: TRIPP-33, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-033
Sampler: Client
Sample Point ID: TRIPP-33

<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: 8:17
Date Received: 12/30/2019
Client Sample ID: TRIPP-34, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-034
Sampler: Client
Sample Point ID: TRIPP-34

<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 17:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 7:57
Date Received: 12/30/2019
Client Sample ID: TRIPP-35, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-035
Sampler: Client
Sample Point ID: TRIPP-35

<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	0.00106 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 17:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 8:19
Date Received: 12/30/2019
Client Sample ID: TRIPP-36, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-036
Sampler: Client
Sample Point ID: TRIPP-36

<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 17:51	

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: 8:19
Date Received: 12/30/2019
Client Sample ID: TRIPP-37, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-037
Sampler: Client
Sample Point ID: TRIPP-37

<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 17:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 8:23
Date Received: 12/30/2019
Client Sample ID: TRIPP-38, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00993-038
Sampler: Client
Sample Point ID: TRIPP-38

<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 17:51	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 8:23
Date Received: 12/30/2019
Client Sample ID: TRIPP-39, Drinking Water Lead Analysis

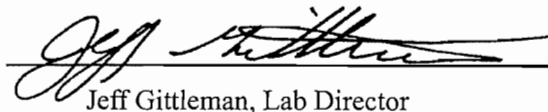
HawkMtn WO #: 1912-00993-039
Sampler: Client
Sample Point ID: TRIPP-39

<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 17:51	

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 #: 1912-00993 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:

Printed By: *AP*

Approved By: *AP*

Bottles made by: *CLT*

Page 2 of 4

Composite

Start Date: _____ Time: _____
End Date: _____ Time: _____

Grab

Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

019-038-250ml Plastic HNO₃

Matrix/

Smp #	Smp Site	Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
011	TRIPP-11, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.8 °C	12/26/15	8:01 AM			°C
012	TRIPP-12, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.8 °C		8:01			°C
013	TRIPP-13, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.8 °C		8:03			°C
014	TRIPP-14, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.7 °C		8:03			°C
015	TRIPP-15, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.7 °C		8:04			°C
016	TRIPP-16, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.7 °C		8:26			°C
017	TRIPP-17, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	10.8 °C		8:26			°C
018	TRIPP-18, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	11.0 °C		8:07			°C
019	TRIPP-19, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	11.1 °C		8:07			°C
020	TRIPP-20, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	11.1 °C		8:08			°C

Receipt Info: Received on ice? ☒ N / ☒ Y
Samples intact? ☒ N / ☒ Y

Adquate samples? ☒ N / ☒ Y
Volatiles: Headspace present? ☒ N / ☒ Y

Completed by: *AP*
Samples/COC/Analysis agree? ☒ N / ☒ Y

Sampled By: *Chris Anderson / Brent Tripp*

Field Meter ID: *N/A*

Notes:

Date: *12/30/19* Time: *11:55*

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED AT LAB:

LOGGED IN AT LAB:

All samples taken in 250mL plastic HNO₃ preserved bottles.

Work Order #: 1912-00993 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: 12/26/15 Printed By: AP Approved By: AP Page 3 of 4
Bottles made by: CLT Checked By: HH

Composite	
Start Date:	Time:
End Date:	Time:

Grab	
Date:	Time:
Date:	Time:
Date:	Time:
Date:	Time:

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Temp °C	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
021	TRIPP-21, Drinking Water Analysis	Potable Water	DW-PB-MS	11.3	°C	12/26/15	8:08 AM			mg/L
022	TRIPP-22, Drinking Water Analysis	Potable Water	DW-PB-MS	11.4	°C		8:10			mg/L
023	TRIPP-23, Drinking Water Analysis	Potable Water	DW-PB-MS	11.4	°C		8:10			mg/L
024	TRIPP-24, Drinking Water Analysis	Potable Water	DW-PB-MS	11.4	°C					mg/L
025	TRIPP-25, Drinking Water Analysis	Potable Water	DW-PB-MS	11.4	°C		8:10			mg/L
026	TRIPP-26, Drinking Water Analysis	Potable Water	DW-PB-MS	11.5	°C		8:10			mg/L
027	TRIPP-27, Drinking Water Analysis	Potable Water	DW-PB-MS	11.2	°C		8:10			mg/L
028	TRIPP-28, Drinking Water Analysis	Potable Water	DW-PB-MS	11.2	°C		8:10			mg/L
029	TRIPP-29, Drinking Water Analysis	Potable Water	DW-PB-MS	11.2	°C		8:10			mg/L
030	TRIPP-30, Drinking Water Analysis	Potable Water	DW-PB-MS	11.2	°C		8:10			mg/L

Receipt Info: Received on ice? Y / N COC intact and complete? Y / N
Samples intact? Y / N Correct containers? Y / N

Adquate samples? Y / N
Volatiles: Headspace present? Y / N

Completed by: SA
Samples/COC/Analysis agree? Y / N

Sampled By: Chris Nodwir / Robert Trip
Field Meter ID: N/A
Notes:

RELINQUISHED BY: Bret...
RECEIVED BY: ...
RELINQUISHED BY: ...
RECEIVED AT LAB: ...
LOGGED IN AT LAB: ...

Date: 12/30/19 Time: 11:55

All samples taken in 250mL
plastic HNO3 preserved bottles.

Work Order #: 1912-00993 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 4 of 4

Printed By: *AGP*

Approved By: *AGP*

Bottles made by: *CLT*

Checked By: *HL*

Composite

Start Date: _____ Time: _____
End Date: _____ Time: _____

Grab

Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

Matrix

Smp # Smp Site Smp Type

Tests

Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
11.0 °C	12/26/15	8:15 AM			°C
11.1 °C		8:15			°C
11.1 °C		8:17			°C
13.3 °C		8:17			°C
12.5 °C		7:57			°C
12.7 °C		8:19			°C
10.8 °C		8:19			°C
11.4 °C		8:23			°C
11.8		8:23			°C

Receipt Info: Received on ice? ☒ Y / N
Samples intact? ☒ Y / N

COC intact and complete? ☒ Y / N
Correct containers? ☒ Y / N

Adquate samples? ☒ Y / N
Volatiles: Headspace present? ☒ Y / N

Completed by: *AGP*
Samples/COC/Analysis agree? ☒ Y / N

Sampled By: *Chlorine / Best Trip*

Field Meter ID: *N/A*

Notes:

Date: *12/30/19*

RELINQUISHED BY: *Best Trip*

RECEIVED BY:

RELINQUISHED BY:

RECEIVED AT LAB:

LOGGED IN AT LAB:

All samples taken in 250mL plastic HNO3 preserved bottles.

12/30/19

11:55

12/30/19

12/30/19

12/30/19

