

Evaluation of Lead in Drinking Water at South Scranton Intermediate School

355 Maple Street
Scranton, PA 18505

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 lead 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 the drinking water within the **South Scranton Intermediate 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 South Scranton Intermediate 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 27, 2019 from the South Scranton Intermediate School:

Sample ID:	Sample Location Description:	Lead Concentration (mg/l)	Lead RTL* (mg/l)	Lead Action Level** (mg/l)	Exceeds Action Level
SSIS-01	Basement Kitchen – 1 st Sink (right) from Cafeteria	<0.001	0.020	0.015	No
SSIS-02	Basement Kitchen – 2 nd Sink (left) from Cafeteria	<0.001	0.020	0.015	No
SSIS-03	Basement Kitchen – Kettle 1	0.003	0.020	0.015	No
SSIS-04	Basement Kitchen – Kettle 2	0.001	0.020	0.015	No
SSIS-05	Basement Kitchen – Kettle 3	0.002	0.020	0.015	No
SSIS-06	Basement Kitchen, Near Dishwasher – Right Sink	0.002	0.020	0.015	No
SSIS-07	Basement Kitchen, Near Dishwasher – Left Sink	<0.001	0.020	0.015	No
SSIS-08	Basement Kitchen – Ice Machine	<0.001	0.020	0.015	No
SSIS-09	Basement Maintenance Office – Sink	0.002	0.020	0.015	No
SSIS-10	3 rd Floor, Next to Room 304 – Water Fountain	0.002	0.020	0.015	No
SSIS-11	3 rd Floor, Home Economics – 1 st Sink	<0.001	0.020	0.015	No
SSIS-12	3 rd Floor, Home Economics – 2 nd Sink	<0.001	0.020	0.015	No
SSIS-13	3 rd Floor, Home Economics – 3 rd Sink	<0.001	0.020	0.015	No
SSIS-14	3 rd Floor, Home Economics – 4 th Sink	<0.001	0.020	0.015	No
SSIS-15	1 st Floor, Women's Teachers Room – Sink	0.002	0.020	0.015	No
SSIS-16	1 st Floor, Men's Teachers Room – Sink	0.003	0.020	0.015	No
SSIS-17	1 st Floor, Room 114A – Sink	<0.001	0.020	0.015	No
SSIS-18	1 st Floor, Boy's Locker Room – Water Fountain	0.001	0.020	0.015	No
SSIS-19	1 st Floor, Boy's Locker Room – Sink	0.001	0.020	0.015	No
SSIS-20	1 st Floor, Girl's Locker Room – Rear Restroom Sink	0.003	0.020	0.015	No
SSIS-21	1 st Floor, Medical Office – Sink	0.002	0.020	0.015	No
SSIS-22	1 st Floor, Medical Office – Rear Sink	0.007	0.020	0.015	No
SSIS-23	Rear Kitchen Area – Right Sink	<0.001	0.020	0.015	No
SSIS-24	Rear Kitchen Area – Left Sink	<0.001	0.020	0.015	No
SSIS-25	No Sample	-	-	-	-

* 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



201 West Clay Avenue / Hazle Township, PA 18202

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

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Report Narrative

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

Report Date: 1/17/2020

Page 1 of 8

HawkMtn WO #: 1912-00991
Subject Line: South Intermediate 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.

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: 12/27/2019 Time Sampled: 8:45
Date Received: 12/27/2019
Client Sample ID: SSI-01, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-001
Sampler: Client
Sample Point ID: SSI-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	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:45
Date Received: 12/27/2019
Client Sample ID: SSI-02, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-002
Sampler: Client
Sample Point ID: SSI-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: 12/27/2019 Time Sampled: 8:50
Date Received: 12/27/2019
Client Sample ID: SSI-03, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-003
Sampler: Client
Sample Point ID: SSI-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	0.00325 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:50
Date Received: 12/27/2019
Client Sample ID: SSI-04, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-004
Sampler: Client
Sample Point ID: SSI-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	0.00132 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019
Date Received: 12/27/2019
Client Sample ID: SSI-05, Drinking Water Lead Analysis

Time Sampled: 8:50

HawkMtn WO #: 1912-00991-005
Sampler: Client
Sample Point ID: SSI-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	0.00197 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019
Date Received: 12/27/2019
Client Sample ID: SSI-06, Drinking Water Lead Analysis

Time Sampled: 8:51

HawkMtn WO #: 1912-00991-006
Sampler: Client
Sample Point ID: SSI-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	0.00176 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019
Date Received: 12/27/2019
Client Sample ID: SSI-07, Drinking Water Lead Analysis

Time Sampled: 8:51

HawkMtn WO #: 1912-00991-007
Sampler: Client
Sample Point ID: SSI-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: 12/27/2019
Date Received: 12/27/2019
Client Sample ID: SSI-08, Drinking Water Lead Analysis

Time Sampled: 8:50

HawkMtn WO #: 1912-00991-008
Sampler: Client
Sample Point ID: SSI-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	

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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:42
Date Received: 12/27/2019
Client Sample ID: SSI-09, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-009
Sampler: Client
Sample Point ID: SSI-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	0.00170 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:28
Date Received: 12/27/2019
Client Sample ID: SSI-10, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-010
Sampler: Client
Sample Point ID: SSI-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	0.00176 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:24
Date Received: 12/27/2019
Client Sample ID: SSI-11, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-011
Sampler: Client
Sample Point ID: SSI-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	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:24
Date Received: 12/27/2019
Client Sample ID: SSI-12, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-012
Sampler: Client
Sample Point ID: SSI-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	

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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:24
Date Received: 12/27/2019
Client Sample ID: SSI-13, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-013
Sampler: Client
Sample Point ID: SSI-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	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:24
Date Received: 12/27/2019
Client Sample ID: SSI-14, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-014
Sampler: Client
Sample Point ID: SSI-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: 12/27/2019 Time Sampled: 8:30
Date Received: 12/27/2019
Client Sample ID: SSI-15, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-015
Sampler: Client
Sample Point ID: SSI-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	0.00188 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:31
Date Received: 12/27/2019
Client Sample ID: SSI-16, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-016
Sampler: Client
Sample Point ID: SSI-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	

PA DEP 40-417
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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:34
Date Received: 12/27/2019
Client Sample ID: SSI-17, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-017
Sampler: Client
Sample Point ID: SSI-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	0.00277 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:37
Date Received: 12/27/2019
Client Sample ID: SSI-18, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-018
Sampler: Client
Sample Point ID: SSI-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: 12/27/2019 Time Sampled: 8:39
Date Received: 12/27/2019
Client Sample ID: SSI-19, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-019
Sampler: Client
Sample Point ID: SSI-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	0.00107 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:36
Date Received: 12/27/2019
Client Sample ID: SSI-20, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-020
Sampler: Client
Sample Point ID: SSI-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	0.00256 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

PA DEP 40-417
EPA PA00169



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Certificate of Analysis

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Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:35
Date Received: 12/27/2019
Client Sample ID: SSI-21, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-021
Sampler: Client
Sample Point ID: SSI-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	0.00207 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:35
Date Received: 12/27/2019
Client Sample ID: SSI-22, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-022
Sampler: Client
Sample Point ID: SSI-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	0.00684 mg/L	1	0.001	EPA 200.8		KLM	1/9/20 0:51	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 8:53
Date Received: 12/27/2019
Client Sample ID: SSI-23, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-023
Sampler: Client
Sample Point ID: SSI-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>
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: 12/27/2019 Time Sampled: 8:53
Date Received: 12/27/2019
Client Sample ID: SSI-24, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00991-024
Sampler: Client
Sample Point ID: SSI-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

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: 12/27/2019 Time Sampled: 12:07
Date Received: 12/27/2019
Client Sample ID: SSI-25, Drinking Water Lead Analysis

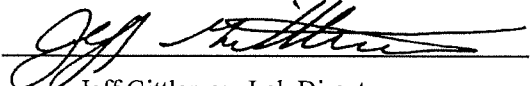
HawkMtn WO #: 1912-00991-025
Sampler: Client
Sample Point ID: SSI-25

<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>
Not Sampled			0				0:00	

ND = Non Detect

These results relate only to the sample noted above.

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without the written approval of HawkMtn Labs


Jeff Gittleman, Lab Director

Work Order #: 1912-00991 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: 12/30/19
Printed By: AP
Approved By: AP
Bottles made by: CLT
Checked By: Hi

Composite	
Start Date:	Time:
End Date:	Time:
Grab	
Date:	Time:
Date:	Time:
Date:	Time:
Date:	Time:

Smp#	Bottle	Preservative	Rev'd	Smp#	Bottle	Preservative	Rev'd
001	Copper/Lead II-Graduated	HNO3	☒	010	Copper/Lead II-Graduated	HNO3	☒
002	Copper/Lead II-Graduated	HNO3	☒	011	Copper/Lead II-Graduated	HNO3	☒
003	Copper/Lead II-Graduated	HNO3	☒	012	Copper/Lead II-Graduated	HNO3	☒
004	Copper/Lead II-Graduated	HNO3	☒	013	Copper/Lead II-Graduated	HNO3	☒
005	Copper/Lead II-Graduated	HNO3	☒	014	Copper/Lead II-Graduated	HNO3	☒
006	Copper/Lead II-Graduated	HNO3	☒	015	Copper/Lead II-Graduated	HNO3	☒
007	Copper/Lead II-Graduated	HNO3	☒	016	Copper/Lead II-Graduated	HNO3	☒
008	Copper/Lead II-Graduated	HNO3	☒	017	Copper/Lead II-Graduated	HNO3	☒
009	Copper/Lead II-Graduated	HNO3	☒	018	Copper/Lead II-Graduated	HNO3	☒

Samples 19
thru 24 rec'd
802 HNO3
88 12/30/19

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
001	SSI-01, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.0 °C	12/21/19	8:45			°C
002	SSI-02, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		8:45			°C
003	SSI-03, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.8 °C		8:50			°C
004	SSI-04, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.7 °C		8:50			°C
005	SSI-05, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.8 °C		8:50			°C
006	SSI-06, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.8 °C		8:51			°C
007	SSI-07, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.8 °C		8:51			°C
008	SSI-08, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	3.5 °C		8:50			°C
009	SSI-09, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		8:42			°C
010	SSI-10, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		8:28			°C

Receipt Info: Received on ice? ☒ N Volatiles: Headspace present? ☒ N Samples/COC/Analysis agree? ☒ N Completed by: 88 Date: 12/30/19 Time: 12:07

Sampled By: Chris Natar / David Natar Field Meter ID: N/A

Notes: Client applied white out.

RELINQUISHED BY: David Natar RECEIVED BY: David Natar

RELINQUISHED BY: David Natar RECEIVED AT LAB: 12/30/19 LOGGED IN AT LAB: 12/30/19

12/11/2019

All samples taken in 250mL plastic HNO3 preserved bottles.

Work Order #: 1912-00991 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: 12/27/19 Page 2 of 3
Printed By: ALP Approved By: ALP
Bottles made by: CLT Checked By: HL

Composite	
Start Date: _____	Time: _____
End Date: _____	Time: _____
Grab	
Date: _____	Time: _____
Date: _____	Time: _____
Date: _____	Time: _____
Date: _____	Time: _____

019-025-250-ml Plastic HNO3

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
011	SSI-11, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C	12/27/19	8:24 AM			mg/L °C
012	SSI-12, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.6 °C		8:24			mg/L °C
013	SSI-13, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.8 °C		8:24			mg/L °C
014	SSI-14, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		8:24			mg/L °C
015	SSI-15, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		8:20			mg/L °C
016	SSI-16, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.0 °C		8:31			mg/L °C
017	SSI-17, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.0 °C		8:34			mg/L °C
018	SSI-18, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.0 °C		8:37			mg/L °C
019	SSI-19, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.0 °C		8:39			mg/L °C
020	SSI-20, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.1 °C		8:36			mg/L °C

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

Adquate samples?
Volatiles: Headspace present? Y N

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

Sampled By: Chris Notaric / Bud Trjine
Field Meter ID: NA
Notes: _____

RELINQUISHED BY: _____
RECEIVED BY: _____

Date: 12/30/19 Time: 12:107

All samples taken in 250mL
plastic HNO3 preserved bottles.

RELINQUISHED BY: _____
RECEIVED AT LAB: _____
LOGGED IN AT LAB: _____

Date: 12/30/19 Time: 12:07
Date: 12/30/19 Time: 12:13

