

Evaluation of Lead in Drinking Water at Northeast Scranton Intermediate School

1539 North Main Street
Scranton, PA 18508

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 20, 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 **Northeast 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 Northeast 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 26, 2019 from the Northeast Scranton Intermediate School:

Sample ID:	Sample Location Description:	Lead Concentration (mg/l)	Lead RTL* (mg/l)	Lead Action Level** (mg/l)	Exceeds Action Level
NSIS-01	3 rd Floor Hallway, Near Elevator – Water Fountain	<0.001	0.020	0.015	No
NSIS-02	3 rd Floor Hallway, Near Medical Room – Water Fountain	<0.001	0.020	0.015	No
NSIS-03	3 rd Floor, Medical Room – Rear Left Sink	0.002	0.020	0.015	No
NSIS-04	3 rd Floor, Medical Room – Rear Right Sink	0.002	0.020	0.015	No
NSIS-05	3 rd Floor, Medical Room – Refrigerator Water	<0.001	0.020	0.015	No
NSIS-06	3 rd Floor, Teachers Lounge – Sink	0.006	0.020	0.015	No
NSIS-07	2 nd Floor, Hallway, Near Elevator – Water Fountain	<0.001	0.020	0.015	No
NSIS-08	2 nd Floor, Hallway, Near Room 230 – Water Fountain	<0.001	0.020	0.015	No
NSIS-09	2 nd Floor, Girls Locker Room – Water Fountain	0.001	0.020	0.015	No
NSIS-10	2 nd Floor, Girls Locker Room – Sink	0.003	0.020	0.015	No
NSIS-11	1 st Floor, Hallway Outside Elevator – Water Fountain	<0.001	0.020	0.015	No
NSIS-12	1 st Floor, Teachers Lounge, Room 108 – Sink	0.001	0.020	0.015	No
NSIS-13	1 st Floor Hallway, Outside Room 121 – Water Fountain	<0.001	0.020	0.015	No
NSIS-14	1st Floor, Home Economics – Sink #1	0.017	0.020	0.015	YES
NSIS-15	1 st Floor, Home Economics – Sink #2	0.006	0.020	0.015	No
NSIS-16	1 st Floor, Home Economics – Sink #3	0.009	0.020	0.015	No
NSIS-17	1st Floor, Home Economics – Sink #4	0.016	0.020	0.015	YES
NSIS-18	1st Floor, Home Economics – Sink #5	0.027	0.020	0.015	YES
NSIS-19	1 st Floor, Room 121 – Sink	0.014	0.020	0.015	No
NSIS-20	No Sample	-	-	-	-
NSIS-21	Ground Floor, Weight Room – Water Fountain	<0.001	0.020	0.015	No
NSIS-22	Ground Floor, Weight Room – Sink	<0.001	0.020	0.015	No
NSIS-23	Basement, Cafeteria – Water Fountain	<0.001	0.020	0.015	No
NSIS-24	Basement, Cafeteria – Sink	<0.001	0.020	0.015	No
NSIS-25	Basement, Cafeteria, In Kitchen – Sink	0.021	0.020	0.015	YES
NSIS-26	1 st Floor, Teachers Lounge, Room 106 – Sink	<0.001	0.020	0.015	No
NSIS-27	No Sample	-	-	-	-
NSIS-28	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.

Samples NSIS-14, NSIS-17, NSIS-18, and NSIS-25 were reported by the laboratory as above the Action Level. 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 other 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

Page 1 of 9

HawkMtn WO #: 1912-00988
Subject Line: Northeast 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.

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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: 10:34
Date Received: 12/30/2019
Client Sample ID: NEI-01, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-001
Sampler: CLIENT
Sample Point ID: NEI-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	1/7/20 22:31	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:32
Date Received: 12/30/2019
Client Sample ID: NEI-02, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-002
Sampler: CLIENT
Sample Point ID: NEI-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: 10:30
Date Received: 12/30/2019
Client Sample ID: NEI-03, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-003
Sampler: CLIENT
Sample Point ID: NEI-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	0.00155 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: 10:30
Date Received: 12/30/2019
Client Sample ID: NEI-04, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-004
Sampler: CLIENT
Sample Point ID: NEI-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	0.00240 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: 10:31
Date Received: 12/30/2019
Client Sample ID: NEI-05, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-005
Sampler: CLIENT
Sample Point ID: NEI-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 Time Sampled: 10:37
Date Received: 12/30/2019
Client Sample ID: NEI-06, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-006
Sampler: CLIENT
Sample Point ID: NEI-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	0.00625 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: 10:39
Date Received: 12/30/2019
Client Sample ID: NEI-07, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-007
Sampler: CLIENT
Sample Point ID: NEI-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	1/7/20 22:31	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:40
Date Received: 12/30/2019
Client Sample ID: NEI-08, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-008
Sampler: CLIENT
Sample Point ID: NEI-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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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:43
Date Received: 12/30/2019
Client Sample ID: NEI-09, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-009
Sampler: CLIENT
Sample Point ID: NEI-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	0.00101 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: 10:43
Date Received: 12/30/2019
Client Sample ID: NEI-10, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-010
Sampler: CLIENT
Sample Point ID: NEI-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	0.00258 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: 10:47
Date Received: 12/30/2019
Client Sample ID: NEI-11, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-011
Sampler: CLIENT
Sample Point ID: NEI-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	1/7/20 22:31	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:45
Date Received: 12/30/2019
Client Sample ID: NEI-12, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-012
Sampler: CLIENT
Sample Point ID: NEI-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	0.00132 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:49
Date Received: 12/30/2019
Client Sample ID: NEI-13, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-013
Sampler: CLIENT
Sample Point ID: NEI-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	1/7/20 22:31	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:50
Date Received: 12/30/2019
Client Sample ID: NEI-14, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-014
Sampler: CLIENT
Sample Point ID: NEI-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	0.0166 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: 10:50
Date Received: 12/30/2019
Client Sample ID: NEI-15, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-015
Sampler: CLIENT
Sample Point ID: NEI-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	0.00583 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: 10:51
Date Received: 12/30/2019
Client Sample ID: NEI-16, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-016
Sampler: CLIENT
Sample Point ID: NEI-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	0.00881 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

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Certificate of Analysis

Customer: Guzek Associates, Inc.
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Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water HawkMtn WO #: 1912-00988-017
Date Sampled: 12/26/2019 Time Sampled: 10:51 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-17
Client Sample ID: NEI-17, Drinking Water Lead Analysis

<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	0.0155 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water HawkMtn WO #: 1912-00988-018
Date Sampled: 12/26/2019 Time Sampled: 10:51 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-18
Client Sample ID: NEI-18, Drinking Water Lead Analysis

<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	0.0273 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water HawkMtn WO #: 1912-00988-019
Date Sampled: 12/26/2019 Time Sampled: 10:53 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-19
Client Sample ID: NEI-19, Drinking Water Lead Analysis

<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	0.0135 mg/L	1	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water HawkMtn WO #: 1912-00988-020
Date Sampled: 12/26/2019 Time Sampled: 10:34 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-20
Client Sample ID: NOT SAMPLED

<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



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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 HawkMtn WO #: 1912-00988-021
Date Sampled: 12/26/2019 Time Sampled: 10:56 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-21
Client Sample ID: NEI-21, Drinking Water Lead Analysis

<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 HawkMtn WO #: 1912-00988-022
Date Sampled: 12/26/2019 Time Sampled: 10:56 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-22
Client Sample ID: NEI-22, Drinking Water Lead Analysis

<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 HawkMtn WO #: 1912-00988-023
Date Sampled: 12/26/2019 Time Sampled: 10:58 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-23
Client Sample ID: NEI-23, Drinking Water Lead Analysis

<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 HawkMtn WO #: 1912-00988-024
Date Sampled: 12/26/2019 Time Sampled: 11:00 Sampler: CLIENT
Date Received: 12/30/2019 Sample Point ID: NEI-24
Client Sample ID: NEI-24, Drinking Water Lead Analysis

<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	

PA DEP 40-417
EPA PA00169



201 West Clay Avenue / Hazle Township, PA 18202

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

www.hawkmtlabs.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: 10:59
Date Received: 12/30/2019
Client Sample ID: NEI-25, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-025
Sampler: CLIENT
Sample Point ID: NEI-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	0.0206 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: 10:46
Date Received: 12/30/2019
Client Sample ID: NEI-26, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00988-026
Sampler: CLIENT
Sample Point ID: NEI-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	1/7/20 22:31	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:34
Date Received: 12/30/2019
Client Sample ID: NOT SAMPLED

HawkMtn WO #: 1912-00988-027
Sampler: CLIENT
Sample Point ID: NEI-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>
Not Sampled			0				0:00	

Material Tested: Potable Water
Date Sampled: 12/26/2019 Time Sampled: 10:34
Date Received: 12/30/2019
Client Sample ID: NOT SAMPLED

HawkMtn WO #: 1912-00988-028
Sampler: CLIENT
Sample Point ID: NEI-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



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Certificate of Analysis

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

Report Date: 1/17/2020

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

A handwritten signature in black ink, appearing to read "Jeff Gittleman", is written over a horizontal line.

Jeff Gittleman, Lab Director

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PA DEP 40-417
EPA PA00169

Work Order #: 1912-00988 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: AL
Bottles made by: CLT
Approved By: ALP
Checked By: HL

Composite	
Start Date: _____	Time: _____
End Date: _____	Time: _____
Grab	
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"/>

26
Samples 21-27
Rec'd 8/2 HNO3
No bottles for
20, 21, 28
KC 12/30/19

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
001	NEI-01, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.8 °C	12/26/19	10:34 AM			°C
002	NEI-02, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.9 °C		10:32			°C
003	NEI-03, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.8 °C		10:30			°C
004	NEI-04, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.8 °C		10:30			°C
005	NEI-05, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7 °C		10:31			°C
006	NEI-06, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7 °C		10:37			°C
007	NEI-07, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7 °C		10:39			°C
008	NEI-08, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7 °C		10:40			°C
009	NEI-09, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.8 °C		10:43			°C
010	NEI-10, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.8 °C		10:43			°C

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

Sampled By: Chris Nefter / Bud Tj
Field Meter ID: N/A
Date: 12/30/19 Time: 11:32
RELINQUISHED BY: _____
RECEIVED BY: _____
RELINQUISHED BY: _____
RECEIVED AT LAB: _____
LOGGED IN AT LAB: _____

All samples taken in 250mL plastic HNO3 preserved bottles.

Work Order #: 1912-00988 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 2 of 3

Printed By: ALP
Bottles made by: ML
Approved By: ALP
Checked By: ML

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

019-028-250mL Plastic HNO₃

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Temp °C	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
011	NEI-11, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7	°C	12/26/19	10:47			°C
012	NEI-12, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7	°C		10:45			°C
013	NEI-13, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.9	°C		10:45			°C
014	NEI-14, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.7	°C		10:50			°C
015	NEI-15, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	14.1	°C		10:50			°C
016	NEI-16, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.4	°C		10:51			°C
017	NEI-17, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.2	°C		10:51			°C
018	NEI-18, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	12.4	°C		10:51			°C
019	NEI-19, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	14.1	°C		10:53			°C
020	NEI-20, Drinking Water Lead Analysis	Potable Water	DW-PB-MS		°C					°C

Receipt Info: Received on ice? <input checked="" type="checkbox"/> N	COC intact and complete? <input checked="" type="checkbox"/> N	Adquate samples? <input checked="" type="checkbox"/> N	Completed by: <u>KL</u>	Samples/COC/Analysis agree? <input checked="" type="checkbox"/> N
Samples intact? <input checked="" type="checkbox"/> N	Correct containers? <input checked="" type="checkbox"/> N	Volatiles: Headspace present? <input checked="" type="checkbox"/> N		

Sampled By: <u>Chris Venturi / Bost Trng</u>	Date: <u>12/20/19</u>	Time: <u>11:32</u>
Field Meter ID: <u>N/A</u>		
Notes:		
RELINQUISHED BY: <u>Ken Chen</u> 12/30/19 13:15		
RECEIVED BY: <u>Ken Chen</u> 12/30/19 13:15		
RELINQUISHED BY: <u>Ken Chen</u> 12/30/19 13:15		
RECEIVED AT LAB: <u>Ken Chen</u> 12/30/19 13:15		
LOGGED IN AT LAB: <u>Ken Chen</u> 12/30/19 13:15		

All samples taken in 250mL plastic HNO₃ preserved bottles.

Work Order #: 1912-00988 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 3 of 3
Printed By: ADP
Approved By: ADP
Bottles made by: CLT
Checked By: ADP

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

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

Matrix		Smp Type		Tests		Temp Upon Receipt		Sample Date		Sample Time		Field pH		Field Cl		Field Temp	
Smp #	Smp Site	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	°C	°C	12/26/19	10:56 AM	10:56 AM	10:56 AM					mg/L	°C
021	NEI-21, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.4	13.1									mg/L	°C
022	NEI-22, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	13.2	12.9									mg/L	°C
023	NEI-23, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.8	12.8									mg/L	°C
024	NEI-24, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.8	12.8									mg/L	°C
025	NEI-25, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.8	12.8									mg/L	°C
026	NEI-26, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.8	12.8									mg/L	°C
027	NEI-27, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.8	12.8									mg/L	°C
028	NEI-28, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	Potable Water	DW-PB-MS	12.8	12.8									mg/L	°C

Receipt Info: Received on ice? <input checked="" type="checkbox"/> N		COC intact and complete? <input checked="" type="checkbox"/> N		Correct containers? <input checked="" type="checkbox"/> N		Adequate samples? <input checked="" type="checkbox"/> N		Volatiles: Headspace present? <input checked="" type="checkbox"/> N		Completed by: <u>KC</u>		Samples/COC/Analysis agree? <input checked="" type="checkbox"/> N		Date		Time	
Sampled By: <u>Chirs Nestai / B. J. Tj</u>		Field Meter ID: <u>N/D</u>		RELINQUISHED BY: <u>B. J. Tj</u>		RECEIVED BY: <u>B. J. Tj</u>		RELINQUISHED BY: <u>B. J. Tj</u>		RECEIVED AT LAB: <u>12/30/19</u>		LOGGED IN AT LAB: <u>12/30/19</u>		11:32		13:15	
Notes: <u>All samples taken in 250mL plastic HNO3 preserved bottles.</u>																	