



Gannett Fleming

*Excellence Delivered **As Promised***

November 28, 2018

Mr. Eric Ritzert, Superintendent
Karns City Area School District
Administrative Office
1446 Kittanning Pike
Karns City, PA 16041

Subject: *Karns City Area School District
Potable Water Lead and Copper Testing Results
Sugar Creek Elementary*

Dear Mr. Ritzert:

Gannett Fleming is pleased to submit a report of the results of the Lead and Copper testing of drinking water fountains and plumbing fixtures in the Karns City Area School District's Sugar Creek Elementary School.

Sampling was conducted on November 12, 2018 at the school. The fixtures selected to be sampled were based on the location in the school, the age of the fixture and results from previous lead and copper sampling events.

Sampling was conducted by Gannett Fleming personnel following USEPA / PADEP guidance. The guidance included the collection 250 mL "first draw" samples. "First draw" samples are samples collected from fixtures that had had been allowed to sit stagnant overnight. Each fixture was tagged and taken out of service so that it was not mistakenly used prior to the collection of the first draw sample.

Sugar Creek Elementary School

A total of seven samples were collected from Sugar Creek Elementary. One of those samples, the Office Restroom Sink, exceeded the lead action level. It is believed that this fixture gets limited use which can cause elevated lead and copper levels. The results from the other six samples were well under the lead and copper action levels of 0.015 mg/L and 1.3 mg/L, respectively.

In order to address the elevated result from the Office Restroom Sink it is recommended that the fixture, the shut off valves and the supply piping between the shut off valves and the fixture be replaced with new lead free components and then resampled. After the replacement of the plumbing fixture the water should be flushed through the new fixture periodically for a few days. Flushing should consist of opening the cold water tap and allowing water to flow for 10 to 15 minutes at a moderate flow rate. Then the fixture should be shut off and allowed to sit until the next day and then flushed again. After the fixture has been flushed three or four times another

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Mr. Eric Ritzert, Superintendent
Karns City Area School District

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lead and copper sample should be collected from that site. Until a satisfactory result is obtained this fixture should be bagged to prevent it from being used.

Since the other fixtures sampled in the school showed low levels of lead and copper, well below the lead and copper action levels, the drinking water fixtures can be returned to service.

Please find attached the laboratory reports for this testing.

Gannett would like to thank the School District's administrative and maintenance staff for their assistance in completing this project. Please feel free to contact us if you have any questions or comments.

Sincerely,

GANNETT FLEMING, INC.

A handwritten signature in black ink, appearing to read "E-T Buzza".

ERIC T. BUZZA
Project Manager

Attachment

cc: Steve Andreassi, Karns City School District
GF File



Microbac Laboratories Inc., Pittsburgh Division
 CERTIFICATE OF ANALYSIS

8112669

GANNETT FLEMING, INC.

Project Name: Sugar Creek Elementary

Eric Buzza
 FOSTER PLAZA III- SUITE 200 601 HOLIDAY DRIVE
 PITTSBURGH, PA 15220

Project / PO Number: N/A
 Received: 11/12/2018
 Reported: 11/27/2018

Analytical Testing Parameters

Client Sample ID: Primary Fountain	Collected By: Eric BUZZA
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 9:45
Lab Sample ID: 8112669-01	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.208	0.0010	mg/L	M6	11/20/18 1245	11/20/18 1320	DLO
Lead	<0.0010	0.0010	mg/L		11/20/18 1245	11/20/18 1320	DLO

Client Sample ID: Room 27	Collected By: Eric BUZZA
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 9:50
Lab Sample ID: 8112669-02	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.184	0.0010	mg/L		11/20/18 1245	11/20/18 1338	DLO
Lead	0.0010	0.0010	mg/L		11/20/18 1245	11/20/18 1338	DLO

Client Sample ID: Gym Hallway Fountain	Collected By: Eric BUZZA
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 9:52
Lab Sample ID: 8112669-03	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.0144	0.0010	mg/L		11/20/18 1245	11/20/18 1340	DLO
Lead	<0.0010	0.0010	mg/L		11/20/18 1245	11/20/18 1340	DLO



Microbac Laboratories Inc., Pittsburgh Division

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Client Sample ID: Cafeteria Prep Sink	Collected By: Eric Buzza
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 9:55
Lab Sample ID: 8112669-04	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.0650	0.0010	mg/L		11/20/18 1245	11/20/18 1342	DLO
Lead	<0.0010	0.0010	mg/L		11/20/18 1245	11/20/18 1342	DLO

Client Sample ID: Maintenance Sink	Collected By: Eric Buzza
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 9:58
Lab Sample ID: 8112669-05	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.242	0.0010	mg/L		11/20/18 1245	11/20/18 1344	DLO
Lead	0.0018	0.0010	mg/L		11/20/18 1245	11/20/18 1344	DLO

Client Sample ID: Room 53	Collected By: Eric Buzza
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 10:00
Lab Sample ID: 8112669-06	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.116	0.0010	mg/L		11/20/18 1245	11/20/18 1349	DLO
Lead	0.0033	0.0010	mg/L		11/20/18 1245	11/20/18 1349	DLO

Client Sample ID: office restroom	Collected By: Eric Buzza
Sample Matrix: Drinking Water	Collection Date: 11/12/2018 10:08
Lab Sample ID: 8112669-07	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Metals, Total - ICP/MS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4							
Copper	0.285	0.0010	mg/L		11/20/18 1245	11/20/18 1351	DLO
Lead	0.0327	0.0010	mg/L		11/20/18 1245	11/20/18 1351	DLO



Microbac Laboratories Inc., Pittsburgh Division

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Definitions

- AL:** US EPA Action Level
- M6:** Matrix spike recovery was not calculated. The analyte concentration is greater than 4X the spiking level.
- RL:** Reporting Limit

Project Requested Certification(s)

Microbac Laboratories Inc., Pittsburgh Division
02-00257

PA Department of Environmental Protection
PADEP Accreditation by Rule

Microbac Laboratories, Inc. - Dayville
68-04413

Pennsylvania Department of Environmental Protection

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Carolyn Vollentine
Service Center Manager
Reported: 11/27/2018 15:08

Microbac Laboratories, Inc.

100 Marshall Drive | Warrendale, PA 15086 | 724-772-0610 p | www.microbac.com



CHAIN OF CUSTODY

F U L L S C A L E T E S T I N G

Microbac Erie Division
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Erie, PA 16509

814.825.8533

eriemm@microbac.com

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Work Order #: 8112669

Client/Company Name: BA59 GF K55D		Contact Name: Eric Buza		Analyses											
Address: Poststar Plaza, Suite 400 730 4th Day Dr		Bill To/PO#:													
City/State/Zip: Pittsburgh PA 15220		Potential Hazards: Non-Hazard <input checked="" type="checkbox"/> Hazard <input type="checkbox"/> Radioactive <input type="checkbox"/>													
Phone: 412 922 5575		Disposal: Dispose of <input checked="" type="checkbox"/> Return <input type="checkbox"/> Retain <input type="checkbox"/>													
Project Name/ID: Sugar Creek Elementary		Compliance Sample: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													
Sampled By: Eric Buza		Due Date:													
Shipped By:		Tracking #:													
Type Code: G-Grab C-Composite	Comp. Start:	Comp. Stop:	Monitoring Period:												
Matrix Code: DW-Potable water	WW-Nonpotable water	SS-Spill/Sludge	F-Food	S-Swab	O-Other										
Sample Identification	Date Taken	Time Taken	Type		Tot. # Cont.	Preservatives									
			G	C		None	HNO3	H2SO4	NaOH	HCl	Thio	Other			
Penney Fountain	11/21/18	945	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0W 1	<input checked="" type="checkbox"/>									
Room 27		950	<input type="checkbox"/>	<input type="checkbox"/>											
Gym Hallway Fountain		952	<input type="checkbox"/>	<input type="checkbox"/>											
Cafeteria Prep Sink		955	<input type="checkbox"/>	<input type="checkbox"/>											
Maintenance Sink		958	<input type="checkbox"/>	<input type="checkbox"/>											
Room 53		1000	<input type="checkbox"/>	<input type="checkbox"/>											



Instructions/Comments:

Relinquished By: [Signature]	Date/Time: 01/18/19	Received By: [Signature]	Date/Time: 11-12-18	Temp: 92°C
Relinquished By:	Date/Time:	Received By:	Date/Time:	Iced: Y N
Relinquished By:	Date/Time:	Received By:	Date/Time:	Intact: Y N
Relinquished By:	Date/Time:	Received By:	Date/Time:	

