

Mr. Albert Tijerina
East Aurora School District 131
Director of Building and Grounds
411 Hill Avenue
Aurora, Illinois 60505

**RE: Lead Sampling in Potable Water - RETEST
Gates Elementary School
800 7th Avenue, Aurora, IL 60505**

Dear Mr. Tijerina:

The following letter report summarizes the laboratory results for the drinking water samples collected from retested potable water sources at Gates Elementary School in Aurora, Illinois. The sampling was conducted on March 10, 2018 by Mr. Matthew Rodriguez of Weaver Consultants Group (WCG). Mr. Rodriguez conducted the sampling under the direction of Mr. David J. Kedrowski, CIH.

SCOPE OF WORK

The scope of work for this project involved collecting water samples from locations previously found to be above 2ppb. The re-tested potable locations were provided to WCG by East Aurora School District 131. The collected re-tested potable water samples were then analyzed for lead by an accredited laboratory.

METHODOLOGY

WCG followed protocols set by U.S. Environmental Protection Agency (EPA) and Illinois Department of Public Health (IDPH) for testing schools for lead in drinking water. Representatives from East Aurora School District 131 confirmed the school was under normal use and ensured the water settled within the piping systems/fixtures for between eight (8) to eighteen (18) hours.

Twenty-five (25) water samples from representative potable water locations to be re-tested were collected in 250 milliliter bottles. The water samples were collected as a "first draw" from each source to represent a lead concentration from water allowed to sit within the pipes or drinking reservoirs for at least eight (8) hours and not more than eighteen (18) hours. A second sample was collected from each location after a 30 second flush to represent water from within the building's localized water piping system.

Each sample was labeled with a unique sample number identifying the school. The samples were transported to Suburban Labs Incorporated (Suburban) in Geneva, Illinois. Samples were analyzed for lead content using EPA Method 200.8 "Determination of Trace Elements in Water using Inductively Coupled Plasma (ICP)/Mass Spectrometry (MS). Suburban is accredited to analyze lead in potable drinking water under the National Environmental Laboratory Accreditation Program (NELAP).

RESULTS

The results of the water sample analysis revealed that four (4) samples of the twenty-five (25) collected for re-testing had lead concentrations above the IDPH Action Level of 2 ppb ($\mu\text{g/L}$). All sample results that exceed 5 $\mu\text{g/L}$ should be promptly reported to parents or guardians of the enrolled students as required by the Illinois Department of Public Health (IDPH).

CONCLUSIONS AND RECOMMENDATIONS

- 1) Implement corrective action for fixtures greater than 2 $\mu\text{g/L}$.
- 2) Implement best practices to minimize lead concentrations in drinking water.

BEST PRACTICES

Best practices for managing elevated lead concentrations in drinking water may include implementing a water quality management plan (WQMP), establishing a routine water flushing program for potable sources daily or during periods of low occupancy or low water usage, routine maintenance to clean screens and aerators, and confirmation sampling. In addition, occupants should avoid consuming water from non-potable sources i.e. classroom or office sinks, washroom sinks, maintenance closets, etc. and hot water taps.

A summary of the sample locations and results may be found in Appendix A and the laboratory report with chain of custody sheets may be found in Appendix B. We appreciate the opportunity to assist you on this important project.

Sincerely,

Weaver Consultants Group North Central, LLC



David J. Kedrowski, CIH
Senior Project Director

APPENDIX A
Lead in Potable Water Sample Results

Gates Elementary School
800 7th Avenue
Aurora, IL 60505

ISBE ID	Sample Date	Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Concentration (ug/L)
310451310222009	03/10/2018	07:15 AM	GAT-01RT	Room 2	S - Sink	03/09/2018	06:30 PM	First Draw	2.45
310451310222009	03/10/2018	07:15 AM	GAT-02RT	Room 2	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:11 AM	GAT-05RT	Room 11	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:11 AM	GAT-06RT	Room 11	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:09 AM	GAT-07RT	Room 13	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:09 AM	GAT-08RT	Room 13	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:07 AM	GAT-09RT	Room 15	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:07 AM	GAT-10RT	Room 15	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:03 AM	GAT-13RT	Room 17	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:03 AM	GAT-14RT	Room 17	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:20 AM	GAT-15RT	Room 21	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:20 AM	GAT-16RT	Room 21	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:25 AM	GAT-17RT	Room 23	S - Sink	03/09/2018	06:30 PM	First Draw	5.37
310451310222009	03/10/2018	07:25 AM	GAT-18RT	Room 23	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:30 AM	GAT-39RT	Corridor in Front of Room 48	DF - Drinking Fountain	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:30 AM	GAT-39ART	Corridor in Front of Room 48 (Bottle Filler)	DF - Drinking Fountain	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	07:30 AM	GAT-40RT	Corridor in Front of Room 48	DF - Drinking Fountain	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:31 AM	GAT-43RT	Teachers' Lounge	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:31 AM	GAT-44RT	Teachers' Lounge	S - Sink	03/09/2018	06:30 PM	Flush	4.72
310451310222009	03/10/2018	07:40 AM	GAT-49RT	Across from Room 41	DF - Drinking Fountain	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	07:40 AM	GAT-50RT	Across from Room 41	DF - Drinking Fountain	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	06:49 AM	GAT-51RT	Room 41	S - Sink	03/09/2018	06:30 PM	First Draw	10.6
310451310222009	03/10/2018	06:49 AM	GAT-52RT	Room 41	S - Sink	03/09/2018	06:30 PM	Flush	ND
310451310222009	03/10/2018	06:51 AM	GAT-53RT	Room 42	S - Sink	03/09/2018	06:30 PM	First Draw	ND
310451310222009	03/10/2018	06:51 AM	GAT-54RT	Room 42	S - Sink	03/09/2018	06:30 PM	Flush	ND

APPENDIX B
Laboratory Results and Chain of Custody Documentation

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

March 23, 2018

Olivia Reynhout
Weaver Consultants Group
1316 Bond St - Suite 108
Naperville, IL 60563

Workorder: 1803C39

TEL: (630) 717-4848

FAX: (630) 717-4850

RE: John Gates Elementary School 800 7th Avenue Aurora IL 60505 Drinking
Water Lead Analysis

Dear Olivia Reynhout:

Suburban Laboratories, Inc. received 25 sample(s) on 3/16/2018 for the analyses presented in the following report.

Customer has provided 250 mL volume sample bottles for all samples collected. Please note, all sample results that exceed 5.00 ug/L should be promptly reported to parents or guardians of all enrolled students. Results that are below 5.00 ug/L should be reported on the school website. Please refer to Public Act 099-0922 or the Illinois Department of Public Health for specific reporting requirements. Suburban Laboratories will forward all results to the IDPH within seven (7) business days from the date of this report.

This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc. If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Pat Rodriguez
Project Manager
708-544-3260 ext 214
pat@suburbanlabs.com



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Fax (708) 544-8587
www.suburbanlabs.com

Client ID: Weaver Consultants Group

Report Date: March 23, 2018

Project Name: John Gates Elementary School 800 7th Avenue Aurora IL

Workorder: 1803C39

Analyte: Lead

Method: EPA 200.8

Matrix: Drinking Water

Sample ID	Client Sample ID	Result	MRL	Units	Date & Time Water System Last Used	Date Collected	Date Analyzed
1803C39-001A	GAT-01ART~Room 2~First Draw	2.45	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-002A	GAT-01BRT~Room 2~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-003A	GAT-05ART~Room 11~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-004A	GAT-05ART~Room 11~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-005A	GAT-07ART~Room 13~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-006A	GAT-07BRT~Room 13~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-007A	GAT-09ART~Room 15~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-008A	GAT-09BRT~Room 15~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-009A	GAT-13ART~Room 17~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-010A	GAT-13BRT~Room 17~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-011A	GAT-16ART~Room 21~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-012A	GAT-16BRT~Room 21~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-013A	GAT-17ART~Room 23~First Draw	5.37	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-014A	GAT-17BRT~Room 23~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-015A	GAT-39ART~Corridor in Front of Room 48~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-016A	GAT-39AART~Corridor in Front of Room 48~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-017A	GAT-39BRT~Corridor in Front of Room 48~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-018A	GAT-43ART~Teachers' Lounge~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-019A	GAT-44BRT~Teachers' Lounge~Flush	4.72	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-020A	GAT-49ART~Across from Room 41~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-021A	GAT-49BRT~Across from Room 41~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-022A	GAT-51ART~Room 41~First Draw	10.6	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-023A	GAT-51BRT~Room 41~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018

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Client ID: Weaver Consultants Group

Report Date: March 23, 2018

Project Name: John Gates Elementary School 800 7th Avenue Aurora IL

Workorder: 1803C39

Analyte: Lead

Method: EPA 200.8

Matrix: Drinking Water

Sample ID	Client Sample ID	Result	MRL	Units	Date & Time Water System Last Used	Date Collected	Date Analyzed
1803C39-024A	GAT-53ART~Room 42~First Draw	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018
1803C39-025A	GAT-53BRT~Room 42~Flush	ND	2.00	µg/L	03/09/2018 18:30	3/10/2018	3/21/2018

1803C39-1A-25A

FIELD DATA FORM

School/Facility Name
John Gates Elementary School
ISBE ID: (ex:01-001-0001-01-00001)
310451310222009

Address
800 7th Avenue
Aurora, IL 60505

Sample Collector Name(s)
Matthew Rodriguez

Water system last used Date:	MMDDYYYY	Time:	HH24MM
03092018		18:30	

All samples must be collected in unpreserved 250 ml plastic bottles

	Bldg. ID	Bldg. Desc	Sample ID#	Sample Loc. Desc	Collection Date MMDDYYYY	Collection Time HH24MM	Fixture Type	Sample Type	Sample Vol.	Notes
Ex1:	0001	Main Building	01	1st Floor Classroom	02232017	800	O - Other	First Draw	250	Description If "Other" Is selected
Ex2:	0001	Main Building	01A	1st Floor Classroom	02232017	800	S - Sink	Flush	250	
1	0001	School	GAT-01ART	Room 2	03102018	7:15	S - Sink	First Draw	250	
2	0001	School	GAT-01BRT	Room 2	03102018	7:15	S - Sink	Flush	250	
3	0001	School	GAT-05ART	Room 11	03102018	7:11	S - Sink	First Draw	250	
4	0001	School	GAT-05ART	Room 11	03102018	7:11	S - Sink	Flush	250	
5	0001	School	GAT-07ART	Room 13	03102018	7:09	S - Sink	First Draw	250	
6	0001	School	GAT-07BRT	Room 13	03102018	7:09	S - Sink	Flush	250	
7	0001	School	GAT-09ART	Room 15	03102018	7:07	S - Sink	First Draw	250	
8	0001	School	GAT-09BRT	Room 15	03102018	7:07	S - Sink	Flush	250	
9	0001	School	GAT-13ART	Room 17	03102018	7:03	S - Sink	First Draw	250	
10	0001	School	GAT-13BRT	Room 17	03102018	7:03	S - Sink	Flush	250	
11	0001	School	GAT-16ART	Room 21	03102018	7:20	S - Sink	First Draw	250	
12	0001	School	GAT-16BRT	Room 21	03102018	7:20	S - Sink	Flush	250	
13	0001	School	GAT-17ART	Room 23	03102018	7:25	S - Sink	First Draw	250	
14	0001	School	GAT-17BRT	Room 23	03102018	7:25	S - Sink	Flush	250	
15	0001	School	GAT-39ART	Corridor in Front of Room	03102018	7:30	DF - Drinking Fountain	First Draw	250	
16	0001	School	GAT-39AART	Corridor in Front of Room	03102018	7:30	DF - Drinking Fountain	Flush	250	
17	0001	School	GAT-39BRT	Corridor in Front of Room	03102018	7:30	DF - Drinking Fountain	First Draw	250	
18	0001	School	GAT-43ART	Teachers' Lounge	03102018	7:31	S - Sink	First Draw	250	
19	0001	School	GAT-44BRT	Teachers' Lounge	03102018	7:31	S - Sink	Flush	250	
20	0001	School	GAT-49ART	Across from Room 41	03102018	7:40	DF - Drinking Fountain	First Draw	250	
21	0001	School	GAT-49BRT	Across from Room 41	03102018	7:40	DF - Drinking Fountain	Flush	250	
22	0001	School	GAT-51ART	Room 41	03102018	6:49	S - Sink	First Draw	250	
23	0001	School	GAT-51BRT	Room 41	03102018	6:49	S - Sink	Flush	250	
24	0001	School	GAT-53ART	Room 42	03102018	6:51	S - Sink	First Draw	250	
25	0001	School	GAT-53BRT	Room 42	03102018	6:51	S - Sink	Flush	250	
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