

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
School Service Center
417 Fifth Street, Aurora, IL 60505**

Dear Mr. Tijerina:

The following letter report summarizes the laboratory results for the drinking water samples collected from the potable water sources at School Service Center in Aurora, Illinois. The sampling was conducted on November 10, 2017 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 pre-identified water locations. The potable locations were provided to WCG by East Aurora School District 131. The collected 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.

Six (6) water samples from representative potable water locations 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. Potable water sources generally included drinking fountains, Nurses' Offices, Teachers' Lounges, kitchen faucets and preschool, kindergarten, and first floor classroom sinks, etc.

At the request of the District, non-potable samples were collected at the water main to the building to establish a baseline. As this is a non-potable source, the results likely do not represent water within the building system but rather sediment at the water main valve or within the sampling connections used to draw the sample. Water samples collected at each potable fixture should instead be relied upon as representative of the drinking water within the building.

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 six (6) collected 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) Within 7 business days of receipt of test results, schools must email all results to IDPH at DPH.LeadH20@illinois.gov. **WCG will email these results on behalf of East Aurora School District 131.**
- 2) All sample results that exceed 5 $\mu\text{g/L}$ should be promptly reported to parents or guardians of all enrolled students in writing or electronically and include:
 - The location and source exceeding 5 $\mu\text{g/L}$.
 - The USEPA website for information about lead in drinking water, <https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>.
- 3) Implement corrective action for fixtures greater than 2 $\mu\text{g/L}$.
- 4) 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

School Service Center
417 Fifth Street
Aurora, IL 60505

School Service Center
417 Fifth Street
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)
	11/10/2017	06:42 AM	SCHOO-01A	1st Floor - Staff Lounge	S - Sink	11/09/2017	08:00 PM	First Draw	7.22
	11/10/2017	06:42 AM	SCHOO-01B	1st Floor - Staff Lounge	S - Sink	11/09/2017	08:00 PM	Flush	6.51
	11/10/2017	06:45 AM	SCHOO-02A	1st Floor - By Benefits/Facilities Room	DF - Drinking Fountain	11/09/2017	08:00 PM	First Draw	ND
	11/10/2017	06:45 AM	SCHOO-02B	1st Floor - By Benefits/Facilities Room	DF - Drinking Fountain	11/09/2017	08:00 PM	Flush	ND
	11/10/2017	06:57 AM	SCHOO-03A	Basement - Water Main	O - Other	11/09/2017	08:00 PM	First Draw	1,390
	11/10/2017	06:57 AM	SCHOO-03B	Basement - Water Main	O - Other	11/09/2017	08:00 PM	Flush	364

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

November 27, 2017

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

Workorder: 1711876

TEL: (630) 717-4848

FAX: (630) 717-4850

RE: McKnight School Service Center Drinking Water Lead Analysis

Dear Olivia Reynhout:

Suburban Laboratories, Inc. received 6 sample(s) on 11/13/2017 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



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

Client ID: Weaver Consultants Group

Report Date: November 27, 2017

Project Name: McKnight School Service Center Drinking Water Lead A

Workorder: 1711876

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
1711876-001A	SCHOO-01A~1st Floor - Staff Lounge~First Draw	7.22	2.00	µg/L	11/09/2017 20:00	11/10/2017	11/26/2017
1711876-002A	SCHOO-01B~1st Floor - Staff Lounge~Flush	6.51	2.00	µg/L	11/09/2017 20:00	11/10/2017	11/26/2017
1711876-003A	SCHOO-02A~1st Floor - By Benefits/Facilities Room~First Draw	ND	2.00	µg/L	11/09/2017 20:00	11/10/2017	11/16/2017
1711876-004A	SCHOO-02B~1st Floor - By Benefits/Facilities Room~Flush	ND	2.00	µg/L	11/09/2017 20:00	11/10/2017	11/16/2017
1711876-005A	SCHOO-03A~Basement - Water Main ~First Draw	1,390	2.00	µg/L	11/09/2017 20:00	11/10/2017	11/16/2017
1711876-006A	SCHOO-03B~Basement - Water Main ~Flush	364	2.00	µg/L	11/09/2017 20:00	11/10/2017	11/16/2017

1711876-001A-001A

FIELD DATA FORM

School/Facility Name
McKnight School Service Center
ISBE ID: (ex-01-001-0001-01-00001)
123456

Address
417 Fifth Street
Aurora, IL 60505

Sample Collector Name(s)
Matthew Rodriguez

Water system last used Date: MMDDYYYY 11/09/2017 Time: HH24MM 20:00

All samples must be collected in unpreserved

	Bldg. ID	Bldg. Desc	Sample ID#	Sample Loc. Desc	Collection Date MMDDYYYY	Collection Time HH24MM	Fixture Type	Sample Type	Sample Vol.	Notes
	0001	Main Building	01	1st Floor Classroom	02232017	800	O - Other	First Draw	250	Description if "Other" is selected
	0001	Main Building	01A	1st Floor Classroom	02232017	800	S - Sink	Flush	250	
1	1	Service Center	SCH00-01A	1st Floor - Staff Lounge	11/10/2017	6:42	S - Sink	First Draw	250	
1	2	Service Center	SCH00-01B	1st Floor - Staff Lounge	11/10/2017	6:42	S - Sink	Flush	250	
2	3	Service Center	SCH00-02A	1st Floor - By Benefits/Facilities Room	11/10/2017	6:45	DF - Drinking Fountain	First Draw	250	
3	4	Service Center	SCH00-02B	1st Floor - By Benefits/Facilities Room	11/10/2017	6:45	DF - Drinking Fountain	Flush	250	
4	5	Service Center	SCH00-03A	Basement - Water Main	11/10/2017	6:57	O - Other	First Draw	250	
5	6	Service Center	SCH00-03B	Basement - Water Main	11/10/2017	6:57	O - Other	Flush	250	
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Ms 11/13/17 8:40a