

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
Krug Elementary School
240 Melrose Avenue, 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 Krug Elementary School in Aurora, Illinois. The sampling was conducted on November 4, 2017 by Mr. Alade Ogunbiyi of Weaver Consultants Group (WCG). Mr. Ogunbiyi 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.

Forty-six (46) 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.

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 thirteen (13) samples of the forty-six (46) 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

Krug Elementary School
240 Melrose Avenue
Aurora, IL 60505

Krug Elementary School
240 Melrose 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)
310451310222021	11/04/2017	10:04 AM	KRU-01A	Classroom 21	S - Sink	11/03/2017	08:30 PM	First Draw	2.59
310451310222021	11/04/2017	10:04 AM	KRU-01B	Classroom 21	S - Sink	11/03/2017	08:30 PM	Flush	3.84
310451310222021	11/04/2017	10:06 AM	KRU-02A	Classroom 20	S - Sink	11/03/2017	08:30 PM	First Draw	2.23
310451310222021	11/04/2017	10:06 AM	KRU-02B	Classroom 20	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:08 AM	KRU-03A	Corridor Between 19A and 18B	DF - Drinking Fountain	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:08 AM	KRU-03B	Corridor Between 19A and 18B	DF - Drinking Fountain	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:10 AM	KRU-04A	Classroom 19	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:10 AM	KRU-04B	Classroom 19	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:18 AM	KRU-05A	Classroom 18	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:18 AM	KRU-05B	Classroom 18	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:24 AM	KRU-06A	Classroom 17	S - Sink	11/03/2017	08:30 PM	First Draw	2.45
310451310222021	11/04/2017	10:24 AM	KRU-06B	Classroom 17	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:27 AM	KRU-07A	Classroom 16	S - Sink	11/03/2017	08:30 PM	First Draw	2.82
310451310222021	11/04/2017	10:27 AM	KRU-07B	Classroom 16	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:29 AM	KRU-08A	Room 7A - Lounge/Workroom	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:29 AM	KRU-08B	Room 7A - Lounge/Workroom	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:33 AM	KRU-09A	Room 10	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:33 AM	KRU-09B	Room 10	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:39 AM	KRU-10A	Corridor Opposite Room 8C (Higher)	DF - Drinking Fountain	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:39 AM	KRU-10B	Corridor Opposite Room 8C (Higher)	DF - Drinking Fountain	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:39 AM	KRU-11A	Corridor Opposite Room 8C (Lower)	DF - Drinking Fountain	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:39 AM	KRU-11B	Corridor Opposite Room 8C (Lower)	DF - Drinking Fountain	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	10:46 AM	KRU-12A	Classroom 9	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	10:46 AM	KRU-12B	Classroom 9	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:16 AM	KRU-13A	Classroom 11	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	11:16 AM	KRU-13B	Classroom 11	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:18 AM	KRU-14A	Classroom 12	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	11:18 AM	KRU-14B	Classroom 12	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:19 AM	KRU-15A	Classroom 7	S - Sink	11/03/2017	08:30 PM	First Draw	3.98
310451310222021	11/04/2017	11:19 AM	KRU-15B	Classroom 7	S - Sink	11/03/2017	08:30 PM	Flush	2.67
310451310222021	11/04/2017	11:20 AM	KRU-16A	Classroom 6	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	11:20 AM	KRU-16B	Classroom 6	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:22 AM	KRU-17A	Classroom 5	S - Sink	11/03/2017	08:30 PM	First Draw	2.03
310451310222021	11/04/2017	11:22 AM	KRU-17B	Classroom 5	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:23 AM	KRU-18A	Classroom 4	S - Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	11:23 AM	KRU-18B	Classroom 4	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:25 AM	KRU-19A	Classroom 3	S - Sink	11/03/2017	08:30 PM	First Draw	2.16
310451310222021	11/04/2017	11:25 AM	KRU-19B	Classroom 3	S - Sink	11/03/2017	08:30 PM	Flush	6.19
310451310222021	11/04/2017	11:27 AM	KRU-20A	Classroom 2	S - Sink	11/03/2017	08:30 PM	First Draw	2.27
310451310222021	11/04/2017	11:27 AM	KRU-20B	Classroom 2	S - Sink	11/03/2017	08:30 PM	Flush	32
310451310222021	11/04/2017	11:29 AM	KRU-21A	Corridor Opposite Room 312	DF - Drinking Fountain	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	11:29 AM	KRU-21B	Corridor Opposite Room 312	DF - Drinking Fountain	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:31 AM	KRU-22A	Classroom 1	S - Sink	11/03/2017	08:30 PM	First Draw	3.94
310451310222021	11/04/2017	11:31 AM	KRU-22B	Classroom 1	S - Sink	11/03/2017	08:30 PM	Flush	ND
310451310222021	11/04/2017	11:34 AM	KRU-23A	Gymnasium Room 23 - Kitchen	KS - Kitchen Sink	11/03/2017	08:30 PM	First Draw	ND
310451310222021	11/04/2017	11:34 AM	KRU-23B	Gymnasium Room 23 - Kitchen	KS - Kitchen Sink	11/03/2017	08:30 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

November 21, 2017

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

Workorder: 1711534

TEL: (630) 717-4848

FAX: (630) 717-4850

RE: Krug Elementary School Drinking Water Lead Analysis

Dear Olivia Reynhout:

Suburban Laboratories, Inc. received 46 sample(s) on 11/7/2017 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



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Client ID: Weaver Consultants Group

Report Date: November 21, 2017

Project Name: Krug Elementary School Drinking Water Lead Analysis

Workorder: 1711534

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
1711534-001A	KRU-01A~Classroom 21~First Draw	2.59	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-002A	KRU-01B~Classroom 21~Flush	3.84	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-003A	KRU-02A~Classroom 20~First Draw	2.23	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-004A	KRU-02B~Classroom 20~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-005A	KRU-03A~Corridor Between 19A and 18B~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-006A	KRU-03B~Corridor Between 19A and 18B~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-007A	KRU-04A~Classroom 19~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-008A	KRU-04B~Classroom 19~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-009A	KRU-05A~Classroom 18~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-010A	KRU-05B~Classroom 18~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-011A	KRU-06A~Classroom 17~First Draw	2.45	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-012A	KRU-06B~Classroom 17~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-013A	KRU-07A~Classroom 16~First Draw	2.82	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-014A	KRU-07B~Classroom 16~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-015A	KRU-08A~Room 7A - Lounge/Workroom~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-016A	KRU-08B~Room 7A - Lounge/Workroom~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-017A	KRU-09A~Room 10~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-018A	KRU-09B~Room 10~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-019A	KRU-10A~Corridor Opposite Room 8C (Higher)~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-020A	KRU-10B~Corridor Opposite Room 8C (Higher)~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-021A	KRU-11A~Corridor Opposite Room 8C (Lower)~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017

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Client ID: Weaver Consultants Group

Report Date: November 21, 2017

Project Name: Krug Elementary School Drinking Water Lead Analysis

Workorder: 1711534

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
1711534-022A	KRU-11B~Corridor Opposite Room 8C (Lower)~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-023A	KRU-12A~Classroom 9~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-024A	KRU-12B~Classroom 9~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-025A	KRU-13A~Classroom 11~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-026A	KRU-13B~Classroom 11~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-027A	KRU-14A~Classroom 12~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-028A	KRU-14B~Classroom 12~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-029A	KRU-15A~Classroom 7~First Draw	3.98	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-030A	KRU-15B~Classroom 7~Flush	2.67	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-031A	KRU-16A~Classroom 6~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-032A	KRU-16B~Classroom 6~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-033A	KRU-17A~Classroom 5~First Draw	2.03	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-034A	KRU-17B~Classroom 5~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-035A	KRU-18A~Classroom 4~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-036A	KRU-18B~Classroom 4~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-037A	KRU-19A~Classroom 3~First Draw	2.16	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-038A	KRU-19B~Classroom 3~Flush	6.19	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-039A	KRU-20A~Classroom 2~First Draw	2.27	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-040A	KRU-20B~Classroom 2~Flush	32.0	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-041A	KRU-21A~Corridor Opposite Room 312~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-042A	KRU-21B~Corridor Opposite Room 312~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-043A	KRU-22A~Classroom 1~First Draw	3.94	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-044A	KRU-22B~Classroom 1~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017

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Client ID: Weaver Consultants Group

Report Date: November 21, 2017

Project Name: Krug Elementary School Drinking Water Lead Analysis

Workorder: 1711534

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
1711534-045A	KRU-23A~Gymnasium Room 23 - Kitchen~First Draw	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017
1711534-046A	KRU-23B~Gymnasium Room 23 - Kitchen~Flush	ND	2.00	µg/L	11/03/2017 20:30	11/4/2017	11/11/2017

