

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
Hermes Elementary School
1000 Jungles Ave, 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 Hermes Elementary School in Aurora, Illinois. The sampling was conducted on March 10, 2018 by Ms. Olivia Reynhout of Weaver Consultants Group (WCG). Ms. Reynhout 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-four (24) 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 five (5) samples of the twenty-four (24) 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

**Hermes Elementary School
1000 Jungles 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)
310451310222010	03/10/2018	06:09 AM	HER-01ART	Classroom 101 (Stainless Steel)	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:09 AM	HER-01BRT	Classroom 101 (Stainless Steel)	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:11 AM	HER-02ART	Classroom 101 (Porcelain)	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:11 AM	HER-02BRT	Classroom 101 (Porcelain)	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:16 AM	HER-03ART	Classroom 102	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:16 AM	HER-03BRT	Classroom 102	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:19 AM	HER-04ART	Classroom 104	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:19 AM	HER-04BRT	Classroom 104	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:22 AM	HER-05ART	Classroom 106	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:22 AM	HER-05BRT	Classroom 106	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:25 AM	HER-06ART	Classroom 105	S - Sink	03/09/2018	07:00 PM	First Draw	2.99
310451310222010	03/10/2018	06:25 AM	HER-06AART	Classroom 105 - New Added Drinking Spigot	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:25 AM	HER-06BRT	Classroom 105	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:32 AM	HER-08ART	Classroom 108	S - Sink	03/09/2018	07:00 PM	First Draw	3.29
310451310222010	03/10/2018	06:32 AM	HER-08BRT	Classroom 108	S - Sink	03/09/2018	07:00 PM	Flush	24
310451310222010	03/10/2018	06:38 AM	HER-09ART	Corridor by Room 108	DF - Drinking Fountain	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:38 AM	HER-09AART	Corridor by Room 108 - Newly Added Bottle Filler	DF - Drinking Fountain	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:38 AM	HER-09BRT	Corridor by Room 108	DF - Drinking Fountain	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:42 AM	HER-11ART	Main Office Storage	S - Sink	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:42 AM	HER-11BRT	Main Office Storage	S - Sink	03/09/2018	07:00 PM	Flush	ND
310451310222010	03/10/2018	06:45 AM	HER-16ART	Room 204A - Nurse's Office	S - Sink	03/09/2018	07:00 PM	First Draw	265
310451310222010	03/10/2018	06:45 AM	HER-16BRT	Room 204A - Nurse's Office	S - Sink	03/09/2018	07:00 PM	Flush	7.16
310451310222010	03/10/2018	06:48 AM	HER-21ART	Corridor by Mechanical Room	DF - Drinking Fountain	03/09/2018	07:00 PM	First Draw	ND
310451310222010	03/10/2018	06:48 AM	HER-21BRT	Corridor by Mechanical Room	DF - Drinking Fountain	03/09/2018	07:00 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: 1803C40

TEL: (630) 717-4848
FAX: (630) 717-4850

RE: Hermes Elementary School Re-Test 1000 Jungles Avenue Aurora IL
Drinking Water Lead Analysis

Dear Olivia Reynhout:

Suburban Laboratories, Inc. received 24 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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Client ID: Weaver Consultants Group

Report Date: March 23, 2018

Project Name: Hermes Elementary School Re-Test 1000 Jungles Avenue

Workorder: 1803C40

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
1803C40-001A	HER-01ART~Classroom 101 (Stainless Steel)~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-002A	HER-01BRT~Classroom 101 (Stainless Steel)~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-003A	HER-02ART~Classroom 101 (Porcelain)~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-004A	HER-02BRT~Classroom 101 (Porcelain)~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-005A	HER-03ART~Classroom 102~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-006A	HER-03BRT~Classroom 102~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-007A	HER-04ART~Classroom 104~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-008A	HER-04BRT~Classroom 104~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-009A	HER-05ART~Classroom 106~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-010A	HER-05BRT~Classroom 106~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-011A	HER-06ART~Classroom 105~First Draw	2.99	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-012A	HER-06AART~Classroom 105 - New Added Drinking Spigot~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-013A	HER-06BRT~Classroom 105~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-014A	HER-08ART~Classroom 108~First Draw	3.29	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-015A	HER-08BRT~Classroom 108~Flush	24.0	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/21/2018
1803C40-016A	HER-09ART~Corridor by Room 108 ~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-017A	HER-09AART~Corridor by Room 108 - Newly Added Bottle Filler~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-018A	HER-09BRT~Corridor by Room 108 ~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-019A	HER-11ART~Main Office Storage~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-020A	HER-11BRT~Main Office Storage~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-021A	HER-16ART~Room 204A - Nurse's Office~First Draw	265	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018

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Client ID: Weaver Consultants Group

Report Date: March 23, 2018

Project Name: Hermes Elementary School Re-Test 1000 Jungles Avenue

Workorder: 1803C40

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
1803C40-022A	HER-16BRT~Room 204A - Nurse's Office~Flush	7.16	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-023A	HER-21ART~Corridor by Mechanical Room~First Draw	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018
1803C40-024A	HER-21BRT~Corridor by Mechanical Room~Flush	ND	2.00	µg/L	3/09/2018 19:00	3/10/2018	3/22/2018

1803040 1A-24A

FIELD DATA FORM

School/Facility Name
 Hermes Elementary School - Re-Test
 ISBE ID: [ex:01-001-0001-01-00001]
 310451310222010

Address
 1000 Jungles Avenue
 Aurora, IL

Sample Collector Name(s)
 O. Reynhout

Water system last used Date: MMDDYYYY 03/09/2018 Time: HH24MM 19:00

AR 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	School	HER-01ART	Classroom 101 (Stainless Steel)	03/10/2018	6:09	S - Sink	First Draw	250	
1	School	HER-01BART	Classroom 101 (Stainless Steel)	03/10/2018	6:09	S - Sink	Flush	250	
2	School	HER-02ART	Classroom 101 (Porcelain)	03/10/2018	6:11	S - Sink	First Draw	250	
3	School	HER-02BART	Classroom 101 (Porcelain)	03/10/2018	6:11	S - Sink	Flush	250	
4	School	HER-03ART	Classroom 102	03/10/2018	6:16	S - Sink	First Draw	250	
5	School	HER-03BART	Classroom 102	03/10/2018	6:16	S - Sink	Flush	250	
5	School	HER-04ART	Classroom 104	03/10/2018	6:19	S - Sink	First Draw	250	
6	School	HER-04BART	Classroom 104	03/10/2018	6:19	S - Sink	Flush	250	
7	School	HER-05ART	Classroom 106	03/10/2018	6:22	S - Sink	First Draw	250	
8	School	HER-05BART	Classroom 106	03/10/2018	6:22	S - Sink	Flush	250	
9	School	HER-06ART	Classroom 105	03/10/2018	6:25	S - Sink	First Draw	250	
10	School	HER-06AART	Classroom 105 - New Added Drinking Spigot	03/10/2018	6:25	S - Sink	First Draw	250	
11	School	HER-06BART	Classroom 105	03/10/2018	6:25	S - Sink	Flush	250	
12	School	HER-08ART	Classroom 108	03/10/2018	6:32	S - Sink	First Draw	250	
13	School	HER-08BART	Classroom 108	03/10/2018	6:32	S - Sink	Flush	250	
14	School	HER-09ART	Corridor by Room 108	03/10/2018	6:33	DF - Drinking Fountain	First Draw	250	
15	School	HER-09AART	Corridor by Room 108 - Newly Added Bottle Filler	03/10/2018	6:33	DF - Drinking Fountain	First Draw	250	
16	School	HER-09BART	Corridor by Room 108	03/10/2018	6:33	DF - Drinking Fountain	Flush	250	
20	School	HER-11ART	Main Office Storage	03/10/2018	6:42	S - Sink	First Draw	250	
21	School	HER-11BART	Main Office Storage	03/10/2018	6:42	S - Sink	Flush	250	
30	School	HER-16ART	Room 204A - Nurse's Office	03/10/2018	6:45	S - Sink	First Draw	250	
31	School	HER-16BART	Room 204A - Nurse's Office	03/10/2018	6:45	S - Sink	Flush	250	
40	School	HER-21ART	Corridor by Mechanical Room	03/10/2018	6:43	DF - Drinking Fountain	First Draw	250	
41	School	HER-21BART	Corridor by Mechanical Room	03/10/2018	6:43	DF - Drinking Fountain	Flush	250	
104								250	
105								250	
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MP 3/14/18 16:00