

October 10, 2016

Mr. Mike Vogel
Interim Director of Facilities and Construction Management
South Washington County Schools
7362 East Douglas Point Road S
Cottage Grove, MN 55016
P 651-425-6274
E mvogel@sowashco.org



**RE: Hillside Elementary
Lead-in-Water Testing
IEA Project #201610819**

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 68 samples of drinking water on September 21, 2016, for lead analyses from the Hillside Elementary building.

The purpose of the site sampling was to document lead levels in the sampled locations and compare them to the EPA action level of 20 parts per billion (ppb).

INTRODUCTION

The Environmental Protection Agency (EPA) established the Lead Contamination Control Act (LCCA) of 1988 to identify and reduce lead in drinking water. Both the EPA and the Minnesota Department of Health (MDH) recommend testing of potable water sources (water used for consumption) every five years for the presence of lead. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead levels in water may increase when the water is allowed to sit undisturbed in the system, such as in science, biology, or art areas. Exposure to lead is a significant health concern, especially to infants and young children whose growing bodies absorb lead more readily than adult bodies do. Lead exposure can cause delays in physical and/or mental development in children and damage to the brain, kidneys, nervous system, and red blood cells. The EPA and MDH recommend that action be taken at a specific fixture when the lead concentration exceeds the EPA's action level for schools of 20 parts per billion (ppb).

METHODOLOGY

IEA collected 68 first-draw (unless otherwise noted) samples of approximately 500 milliliters (ml). "First draw" means the samples are collected before the fixture is used or flushed during the day. The first-draw sample results reflect a worst case scenario, i.e., the highest lead level that would be consumed by building occupants. Current protocol calls for flushing locations 8-18 hours prior to sampling.

Site map with sample locations are included in Appendix A. Water samples were analyzed by Minnesota Valley Testing Laboratories (MVTL) in New Ulm, Minnesota, which uses EPA approved analytical methods and quality control/assurance procedures. Samples were analyzed using the ICP/MS EPA Method 200.8.

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210 Woodlake Drive SE
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800-233-9513

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RESULTS & DISCUSSION

The lead-in-water sampling results ranged from below the level of detection (<0.05 ppb) to 24.9 ppb. There are two (2) sample results greater than 20 ppb. See *Table 1: Water Testing Results Exceeding 20 ppb*. The laboratory report is provided in Appendix B. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to parts per billion (ppb).

Table 1: Water Testing Results Exceeding 20 ppb – September 21, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A49895	Hillside Elementary	Sink Room 203	Faucet	24.9
16-A49902	Hillside Elementary	Sink Room 210	Faucet	23.2

ppb – parts per billion

In addition, two (2) results showed lead levels between 15 ppb and 20 ppb. See *Table 2: Water Testing Results Approaching 20 ppb* for these results. Although the EPA recommends that school drinking water not exceed 20 ppb, the MDH recommends schools seek to reduce the amount of lead in drinking water to as close to zero as possible.

Table 2: Water Testing Results Approaching 20 ppb – September 21, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A49906	Hillside Elementary	Sink Room 214	Faucet	16.9
16-A49933	Hillside Elementary	Sink Room 111	Faucet	15.6

ppb – parts per billion

RECOMMENDATIONS

IEA recommends implementing one of the following treatment options for the fixtures with lead level exceeding the EPA action level of 20 ppb. These recommendations should also be considered for the fixtures with lead level approaching 20 ppb.

- Install a point-of-use treatment device, such as the Omnipure OMB934 1M Lead Reduction Filter.
- Conduct flush testing in accordance with EPA or MDH guidelines to determine if flushing will reduce lead levels. If results indicate that flushing will reduce lead to acceptable levels, implement a flushing program which includes documentation of daily flushing and periodic program review.
- Replace fixture with “lead free” fixture certified to NSF/ANSI 372 or NSF/ANSI 61-G. The *Reduction of Lead in Drinking Water Act* redefines “lead free” as “not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures.” Effective January 4, 2014, drinking water system components sold or installed must adhere to this new requirement.
- Remove fixture from service by disconnecting it from the water supply.
- Post signs that the water is not potable and to notify staff of this.

In addition, IEA recommends that a copy of the district's Lead- in-Drinking Water Testing Report be made available to staff and the public through the district's administrative offices.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon water testing at South Washington County Schools. This report does not reflect variations in conditions that may occur. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental, health and safety practices. Other than as provided in the preceding sentence and in our Proposal #5406A dated August 5, 2016 regarding Lead-in-Water Testing, including the General Conditions attached thereto, no warranties are extended or made.

Please contact IEA if you would like assistance with any of the above recommendations or have questions regarding this report.

Sincerely,

IEA, INC.


Amy Satterfield, CPPM I
Director of Business Development


Karen Weiblen
EHS/IEQ Consultant

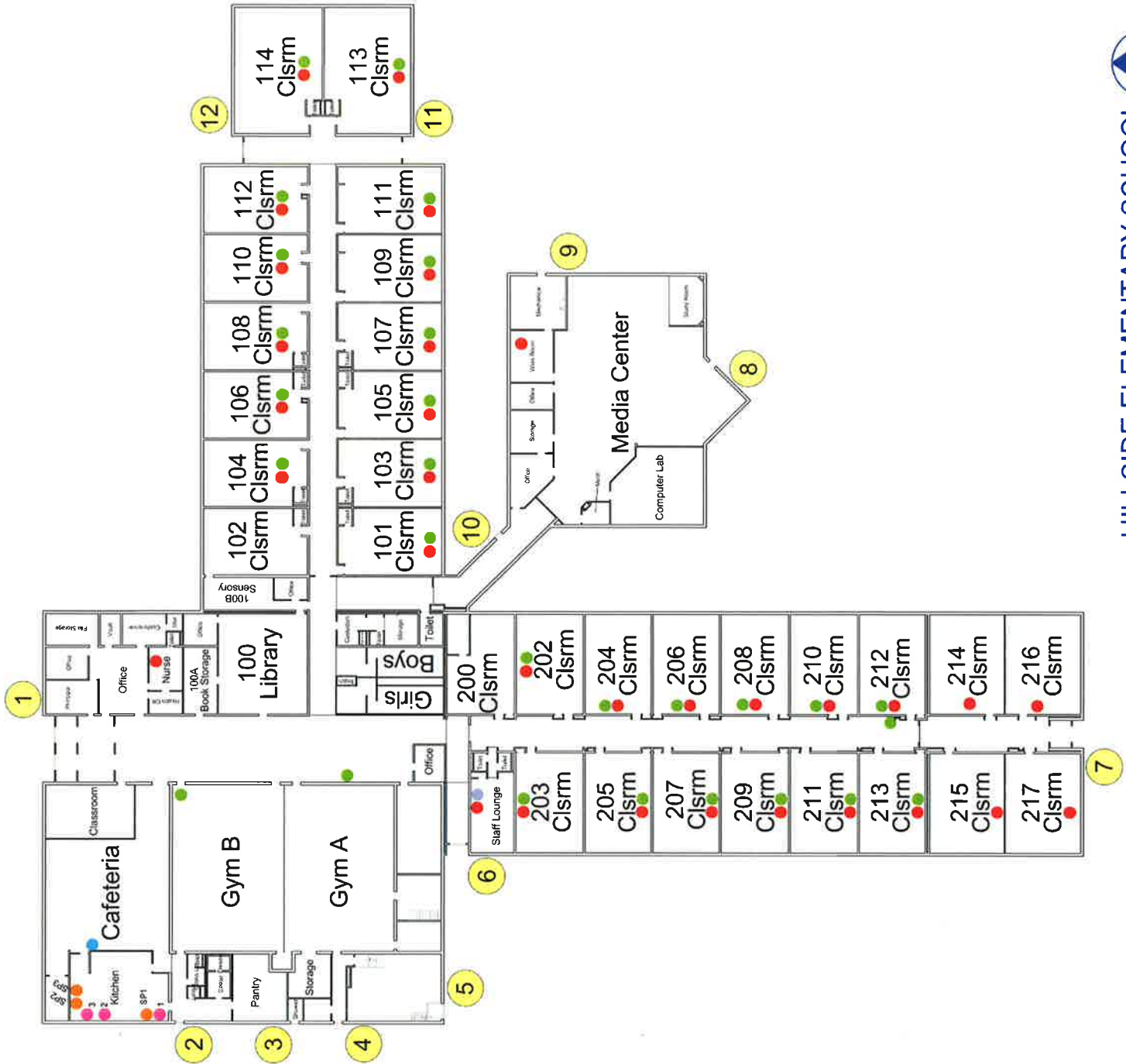
Enclosure

cc: Damien Nelson, Safety & Security

Appendix A
Site Map/Drawing

LEGEND

- SINK (32)
- KITCHEN SINK (3)
- KITCHEN SPRAYER (3)
- DRINKING FOUNTAIN (28)
- WATER BOTTLE FILLER (1)
- INLINE HOT/COLD DISPENSER (1)



Appendix B

Laboratory Testing Report



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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 2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
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Report Date: 10 Oct 2016

HEIDI SOLBERG
 IEA/BROOKLYN PARK
 9201 W BDWY STE #600
 BROOKLYN PARK MN 55445

Work Order #: 12-14532
 Account #: 002190
 Purchase Order #: 201610819

Date Received: 21 Sep 2016
 Date Sampled: 21 Sep 2016
 Temperature at Receipt: 19.9C

PROJECT NAME: HILLSIDE ELEM.
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49882	09212016HE-1 KITCHEN SINK #1	9.47 ug/L	15.0	3 Oct 16	RMB
16-A49883	09212016HE-2 KITCHEN SINK #2	9.57 ug/L	15.0	3 Oct 16	RMB
16-A49884	09212016HE-3 KITCHEN SINK #3	5.95 ug/L	15.0	3 Oct 16	RMB
16-A49885	09212016HE-4 KITCHEN SPRAYER #1	7.12 ug/L	15.0	3 Oct 16	RMB
16-A49886	09212016HE-5 KITCHEN SPRAYER #2	2.12 ug/L	15.0	3 Oct 16	RMB
16-A49887	09212016HE-6 KITCHEN SPRAYER #3	2.43 ug/L	15.0	3 Oct 16	RMB
16-A49888	09212016HE-7 BOTTLE FILLER CAFETERIA	< 0.5 ug/L	15.0	3 Oct 16	RMB
16-A49890	09212016HE-9 DF INSIDE GYM B	2.00 ug/L	15.0	3 Oct 16	RMB
16-A49891	09212016HE-10 DF OUTSIDE GYM A	2.97 ug/L	15.0	3 Oct 16	RMB
16-A49892	09212016HE-11 INLINE FIXTURE STAFF LOUNGE	< 0.5 ug/L	15.0	3 Oct 16	RMB
16-A49893	09212016HE-12 SINK STAFF LOUNGE	3.42 ug/L	15.0	3 Oct 16	RMB
16-A49894	09212016HE-14 SINK 202	8.43 ug/L	15.0	3 Oct 16	RMB
16-A49895	09212016HE-15 SINK 203	24.9 ug/L	15.0	3 Oct 16	RMB

Approved by: 
 Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN

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PROJECT NAME: HILLSIDE ELEM.
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49896	09212016HE-16 SINK 204	7.31 ug/L	15.0	3 Oct 16	RMB
16-A49897	09212016HE-17 SINK 205	5.23 ug/L	15.0	3 Oct 16	RMB
16-A49898	09212016HE-18 SINK 206	10.6 ug/L	15.0	3 Oct 16	RMB
16-A49899	09212016HE-19 SINK 207	5.65 ug/L	15.0	3 Oct 16	RMB
16-A49900	09212016HE-20 SINK 208	13.3 ug/L	15.0	3 Oct 16	RMB
16-A49901	09212016HE-21 SINK 209	6.15 ug/L	15.0	3 Oct 16	RMB
16-A49902	09212016HE-22 SINK 210	23.2 ug/L	15.0	3 Oct 16	RMB
16-A49903	09212016HE-23 SINK 211	9.85 ug/L	15.0	3 Oct 16	RMB
16-A49904	09212016HE-24 SINK 212	4.67 ug/L	15.0	3 Oct 16	RMB
16-A49905	09212016HE-25 SINK 213	4.18 ug/L	15.0	3 Oct 16	RMB
16-A49906	09212016HE-26 SINK 214	16.9 ug/L	15.0	3 Oct 16	RMB
16-A49907	09212016HE-27 SINK 215	11.2 ug/L	15.0	3 Oct 16	RMB

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 Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN
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PROJECT NAME: HILLSIDE ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49908	09212016HE-28 SINK 216	10.5 ug/L	15.0	3 Oct 16	RMB
16-A49909	09212016HE-29 DF OUTSIDE 212	4.26 ug/L	15.0	3 Oct 16	RMB
16-A49910	09212016HE-31 DF 202	8.56 ug/L	15.0	3 Oct 16	RMB
16-A49911	09212016HE-32 DF 203	3.53 ug/L	15.0	3 Oct 16	RMB
16-A49912	09212016HE-33 DF 204	2.81 ug/L	15.0	3 Oct 16	RMB
16-A49913	09212016HE-34 DF 205	6.40 ug/L	15.0	3 Oct 16	RMB
16-A49914	09212016HE-35 DF 206	4.28 ug/L	15.0	3 Oct 16	RMB
16-A49915	09212016HE-36 DF 207	3.56 ug/L	15.0	3 Oct 16	RMB
16-A49916	09212016HE-37 DF 208	5.69 ug/L	15.0	3 Oct 16	RMB
16-A49917	09212016HE-38 DF 209	3.86 ug/L	15.0	3 Oct 16	RMB
16-A49918	09212016HE-39 DF 210	4.69 ug/L	15.0	3 Oct 16	RMB
16-A49919	09212016HE-40 DF 211	4.73 ug/L	15.0	3 Oct 16	RMB
16-A49920	09212016HE-41 DF 212	2.12 ug/L	15.0	3 Oct 16	RMB

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PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49921	09212016HE-42 DF 213	2.01 ug/L	15.0	3 Oct 16	RMB
16-A49922	09212016HE-43 SINK MEDIA CENTER WORK ROOM	1.05 ug/L	15.0	3 Oct 16	RMB
16-A49923	09212016HE-44 DF OUTSIDE 106	13.2 ug/L	15.0	3 Oct 16	RMB
16-A49924	09212016HE-45 SINK 101	2.96 ug/L	15.0	3 Oct 16	RMB
16-A49925	09212016HE-47 SINK 103	8.86 ug/L	15.0	3 Oct 16	RMB
16-A49926	09212016HE-48 SINK 104	7.17 ug/L	15.0	5 Oct 16	RMB
16-A49927	09212016HE-49 SINK 105	5.67 ug/L	15.0	5 Oct 16	RMB
16-A49928	09212016HE-50 SINK 106	2.23 ug/L	15.0	5 Oct 16	RMB
16-A49929	09212016HE-51 SINK 107	5.29 ug/L	15.0	5 Oct 16	RMB
16-A49930	09212016HE-52 SINK 108	4.29 ug/L	15.0	5 Oct 16	RMB
16-A49931	09212016HE-53 SINK 109	4.17 ug/L	15.0	5 Oct 16	RMB
16-A49932	09212016HE-54 SINK 110	5.08 ug/L	15.0	5 Oct 16	RMB

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16-A49933	09212016HE-55 SINK 111	15.6 ug/L	15.0	5 Oct 16	RMB
16-A49934	09212016HE-56 SINK 112	5.25 ug/L	15.0	5 Oct 16	RMB
16-A49935	09212016HE-57 SINK 113	0.64 ug/L	15.0	5 Oct 16	RMB
16-A49936	09212016HE-58 SINK 114	1.85 ug/L	15.0	5 Oct 16	RMB
16-A49937	09212016HE-59 DF 101	8.35 ug/L	15.0	5 Oct 16	RMB
16-A49938	09212016HE-61 DF 103	5.02 ug/L	15.0	5 Oct 16	RMB
16-A49939	09212016HE-62 DF 104	3.71 ug/L	15.0	5 Oct 16	RMB
16-A49940	09212016HE-63 DF 105	3.57 ug/L	15.0	5 Oct 16	RMB
16-A49941	09212016HE-64 DF 106	2.16 ug/L	15.0	5 Oct 16	RMB
16-A49942	09212016HE-65 DF 107	4.28 ug/L	15.0	5 Oct 16	RMB
16-A49943	09212016HE-66 DF 108	5.68 ug/L	15.0	5 Oct 16	RMB
16-A49944	09212016HE-67 DF 109	4.26 ug/L	15.0	5 Oct 16	RMB

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Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN

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16-A49945	09212016HE-68 DF 110	1.77 ug/L	15.0	5 Oct 16	RMB
16-A49946	09212016HE-69 DF 111	3.62 ug/L	15.0	3 Oct 16	RMB
16-A49947	09212016HE-70 DF 112	11.1 ug/L	15.0	3 Oct 16	RMB
16-A49948	09212016HE-71 DF 113	0.66 ug/L	15.0	3 Oct 16	RMB
16-A49949	09212016HE-72 DF 114	1.13 ug/L	15.0	3 Oct 16	RMB
16-A49950	09212016HE-73 SINK NURSES OFFICE	4.47 ug/L	15.0	3 Oct 16	RMB
16-A49951	09212016HE-74 SINK 217	8.20 ug/L	15.0	3 Oct 16	RMB

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