

October 24, 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: Liberty Ridge Elementary  
Lead-in-Water Testing  
IEA Project #201610819**

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 107 samples of drinking water on September 22, 2016, for lead analyses from the Liberty Ridge 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 107 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.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.  
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610 North Riverfront Drive  
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210 Woodlake Drive SE  
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13432 Elmwood Drive, Ste. #5  
Baxter, MN 56425  
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VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
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## RESULTS & DISCUSSION

The lead-in-water sampling results for Liberty Ridge Elementary ranged from below the level of detection (<0.05 ppb) to 17.4 ppb. There are no sample results for Liberty Ridge Elementary greater than 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).

There is one (1) result that showed a lead level between 15 ppb and 20 ppb. See *Table 1: Water Testing Result Approaching 20 ppb* for this result. 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 1: Water Testing Result Approaching 20 ppb – September 22, 2016**

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A50705	Liberty Ridge Elementary	Kitchen Sink #3	Faucet	17.4

ppb – parts per billion

## RECOMMENDATIONS

Although there were no fixtures with lead level exceeding the EPA action level of 20 ppb, IEA recommends implementing one of the same treatment options it recommends for exceeding, for the fixture 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

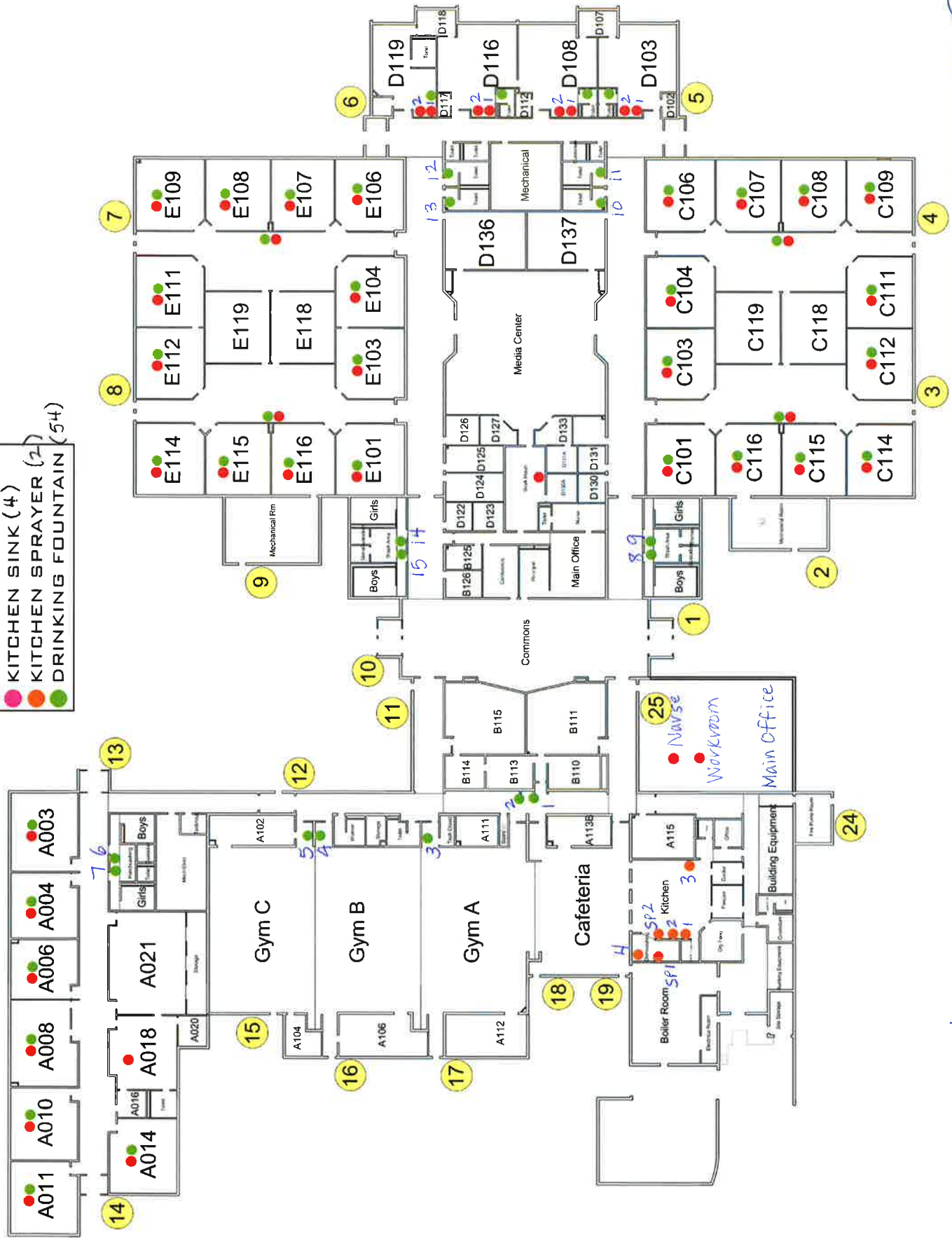
Enclosure

cc: Damien Nelson, Safety & Security

**Appendix A**  
*Site Map/Drawing*

**LEGEND**

- SINK (47)
- KITCHEN SINK (4)
- KITCHEN SPRAYER (2)
- DRINKING FOUNTAIN (54)



**Appendix B**  
*Laboratory Testing Report*



# MINNESOTA VALLEY TESTING LABORATORIES, INC.

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 www.mvtl.com

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Report Date: 24 Oct 2016

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

Work Order #: 12-14661  
 Account #: 002190  
 Purchase Order #: 201610819

Date Received: 22 Sep 2016  
 Date Sampled: 22 Sep 2016  
 Temperature at Receipt: 19.9C

PROJECT NAME: LIBERTY RIDGE ELEM.  
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50703	09222016LRE-1 KITCHEN SINK #1	0.83 ug/L	15.0	13 Oct 16	RMV
16-A50704	09222016LRE-2 KITCHEN SINK #2	0.93 ug/L	15.0	13 Oct 16	RMV
16-A50705	09222016LRE-3 KITCHEN SINK #3	17.4 ug/L	15.0	13 Oct 16	RMV
16-A50706	09222016LRE-4 KITCHEN SINK #4	11.5 ug/L	15.0	13 Oct 16	RMV
16-A50707	09222016LRE-5 KITCHEN SPRAYER #1	3.34 ug/L	15.0	13 Oct 16	RMV
16-A50708	09222016LRE-6 KITCHEN SPRAYER #2	2.25 ug/L	15.0	13 Oct 16	RMV
16-A50709	09222016LRE-7 DF #1	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50710	09222016LRE-8 DF #2	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50711	09222016LRE-9 DF #3	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50712	09222016LRE-10 DF #4	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50713	09222016LRE-11 DF #5	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50714	09222016LRE-12 DF #6	0.51 ug/L	15.0	13 Oct 16	RMV
16-A50715	09222016LRE-13 DF #7	0.70 ug/L	15.0	13 Oct 16	RMV

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

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 CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040

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16-A50716	09222016LRE-14 DF #8	0.78 ug/L	15.0	13 Oct 16	RMV
16-A50717	09222016LRE-15 DF #9	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50718	09222016LRE-16 DF #10	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50719	09222016LRE-17 DF #11	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50720	09222016LRE-18 DF #12	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50721	09222016LRE-19 DF #13	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50722	09222016LRE-20 DF #14	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50723	09222016LRE-21 DF #15	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50724	09222016LRE-22 SINK A18	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50725	09222016LRE-23 SINK A14	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50726	09222016LRE-24 DF A14	0.74 ug/L	15.0	13 Oct 16	RMV
16-A50727	09222016LRE-25 SINK A11	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50728	09222016LRE-26 DF A11	< 0.5 ug/L	15.0	13 Oct 16	RMV

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16-A50729	09222016LRE-27 SINK A10	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50730	09222016LRE-28 DF A10	0.57 ug/L	15.0	13 Oct 16	RMV
16-A50731	09222016LRE-29 SINK A008	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50732	09222016LRE-30 DF A008	0.51 ug/L	15.0	13 Oct 16	RMV
16-A50733	09222016LRE-31 SINK A006	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50734	09222016LRE-32 DF A006	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50735	09222016LRE-33 SINK A004	0.58 ug/L	15.0	13 Oct 16	RMV
16-A50736	09222016LRE-34 DF A004	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50737	09222016LRE-35 SINK A003	2.17 ug/L	15.0	13 Oct 16	RMV
16-A50738	09222016LRE-36 DF A003	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50739	09222016LRE-37 DF RM C101	1.01 ug/L	15.0	13 Oct 16	RMV
16-A50740	09222016LRE-38 DF RM C103	0.84 ug/L	15.0	13 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50741	09222016LRE-39 DF RM C104	0.78 ug/L	15.0	13 Oct 16	RMV
16-A50742	09222016LRE-40 DF RM C106	0.57 ug/L	15.0	13 Oct 16	RMV
16-A50743	09222016LRE-41 DF RM C107	0.65 ug/L	15.0	13 Oct 16	RMV
16-A50744	09222016LRE-42 DF RM C108	0.75 ug/L	15.0	13 Oct 16	RMV
16-A50745	09222016LRE-43 DF RM C109	0.58 ug/L	15.0	13 Oct 16	RMV
16-A50746	09222016LRE-44 DF RM C111	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50747	09222016LRE-45 DF RM C112	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50748	09222016LRE-46 DF RM C114	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50749	09222016LRE-47 DF RM C115	0.84 ug/L	15.0	13 Oct 16	RMV
16-A50750	09222016LRE-48 DF RM C116	0.71 ug/L	15.0	13 Oct 16	RMV
16-A50751	09222016LRE-49 SINK RM C101	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50752	09222016LRE-50 SINK RM C103	0.50 ug/L	15.0	13 Oct 16	RMV
16-A50753	09222016LRE-51 SINK RM C104	< 0.5 ug/L	15.0	13 Oct 16	RMV

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Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN  
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16-A50754	09222016LRE-52 SINK RM C106	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50755	09222016LRE-53 SINK RM C107	0.98 ug/L	15.0	13 Oct 16	RMV
16-A50756	09222016LRE-54 SINK RM C108	0.98 ug/L	15.0	13 Oct 16	RMV
16-A50757	09222016LRE-55 SINK RM C109	0.75 ug/L	15.0	13 Oct 16	RMV
16-A50758	09222016LRE-56 SINK RM C111	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50759	09222016LRE-57 SINK RM C112	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50760	09222016LRE-58 SINK RM C114	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50761	09222016LRE-59 SINK RM C115	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50762	09222016LRE-60 SINK RM C116	0.93 ug/L	15.0	13 Oct 16	RMV
16-A50763	09222016LRE-61 DF OUTSIDE RM C116	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50764	09222016LRE-62 DF OUTSIDE RM C107	0.55 ug/L	15.0	13 Oct 16	RMV
16-A50765	09222016LRE-63 SINK OUTSIDE RM C116	0.51 ug/L	15.0	13 Oct 16	RMV

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16-A50766	09222016LRE-64 SINK OUTSIDE RM C107	1.01 ug/L	15.0	13 Oct 16	RMV
16-A50767	09222016LRE-65 DF RM D103	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50768	09222016LRE-66 DF RM D108	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50769	09222016LRE-67 DF RM D116	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50770	09222016LRE-68 DF RM D119	0.62 ug/L	15.0	13 Oct 16	RMV
16-A50771	09222016LRE-69 SINK #1 D103	0.67 ug/L	15.0	13 Oct 16	RMV
16-A50772	09222016LRE-70 SINK #2 D103	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50773	09222016LRE-71 SINK #1 D108	1.10 ug/L	15.0	13 Oct 16	RMV
16-A50774	09222016LRE-72 SINK #2 D108	6.52 ug/L	15.0	13 Oct 16	RMV
16-A50775	09222016LRE-73 SINK #1 D116	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50776	09222016LRE-74 SINK #2 D116	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50777	09222016LRE-75 SINK #1 D119	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50778	09222016LRE-76 SINK #2 D119	< 0.5 ug/L	15.0	15 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50779	09222016LRE-77 DF E101	0.50 ug/L	15.0	15 Oct 16	RMV
16-A50780	09222016LRE-78 DF E103	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50781	09222016LRE-79 DF E104	0.51 ug/L	15.0	15 Oct 16	RMV
16-A50782	09222016LRE-80 DF E106	0.61 ug/L	15.0	15 Oct 16	RMV
16-A50783	09222016LRE-81 DF E107	0.51 ug/L	15.0	15 Oct 16	RMV
16-A50784	09222016LRE-82 DF E108	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50785	09222016LRE-83 DF E109	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50786	09222016LRE-84 DF E111	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50787	09222016LRE-85 DF E112	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50788	09222016LRE-86 DF E114	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50789	09222016LRE-87 DF E115	0.56 ug/L	15.0	15 Oct 16	RMV
16-A50790	09222016LRE-88 DF E116	< 0.5 ug/L	15.0	15 Oct 16	RMV

Approved by:   
 Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN  
 Page: 7

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 @ = Due to sample matrix # = Due to concentration of other analytes  
 ! = Due to sample quantity + = Due to internal standard response  
 CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.



# MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890  
 2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724  
 1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885  
 www.mvtl.com

MEMBER  
ACIL

Report Date: 24 Oct 2016


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

Work Order #: 12-14661  
 Account #: 002190  
 Purchase Order #: 201610819

Date Received: 22 Sep 2016  
 Date Sampled: 22 Sep 2016  
 Temperature at Receipt: 19.9C

PROJECT NAME: LIBERTY RIDGE ELEM.  
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50791	09222016LRE-89 DF OUTSIDE E116	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50792	09222016LRE-90 SINK OUTSIDE E116	0.74 ug/L	15.0	15 Oct 16	RMV
16-A50793	09222016LRE-91 DF OUTSIDE E108	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50794	09222016LRE-92 SINK OUTSIDE E108	0.64 ug/L	15.0	15 Oct 16	RMV
16-A50795	09222016LRE-93 SINK E101	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50796	09222016LRE-94 SINK E103	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50797	09222016LRE-95 SINK E104	0.96 ug/L	15.0	15 Oct 16	RMV
16-A50798	09222016LRE-96 SINK E106	0.52 ug/L	15.0	15 Oct 16	RMV
16-A50799	09222016LRE-97 SINK E107	0.63 ug/L	15.0	15 Oct 16	RMV
16-A50800	09222016LRE-98 SINK E108	1.43 ug/L	15.0	15 Oct 16	RMV
16-A50801	09222016LRE-99 SINK E109	0.62 ug/L	15.0	15 Oct 16	RMV
16-A50802	09222016LRE-100 SINK E111	0.71 ug/L	15.0	15 Oct 16	RMV
16-A50803	09222016LRE-101 SINK E112	< 0.5 ug/L	15.0	15 Oct 16	RMV

Approved by:   
 Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN  
 Page: 8

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MEMBER  
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Date Received: 22 Sep 2016  
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Temperature at Receipt: 19.9C

PROJECT NAME: LIBERTY RIDGE ELEM.  
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50804	09222016LRE-102 SINK E114	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50805	09222016LRE-103 SINK E115	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50806	09222016LRE-104 SINK E116	0.94 ug/L	15.0	15 Oct 16	RMV
16-A50807	09222016LRE-105 SINK MEDIA CENTER WORKROOM	0.80 ug/L	15.0	15 Oct 16	RMV
16-A50808	09222016LRE-106 SINK NURSES OFFICE	< 0.5 ug/L	15.0	15 Oct 16	RMV
16-A50809	09222016LRE-107 SINK MAIN OFFICE WORKROOM	< 0.5 ug/L	15.0	15 Oct 16	RMV

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Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN  
Page: 9

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