

October 28, 2016



*Providing Trusted  
Health & Safety Solutions*

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: Woodbury Middle School  
Lead-in-Water Testing  
IEA Project #201610819**

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 56 samples of drinking water on September 23, 2016, for lead analyses from the Woodbury Middle School 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 56 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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610 North Riverfront Drive  
Mankato, MN 56001  
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ROCHESTER  
210 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664  
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BRAINERD  
13432 Elmwood Drive, Ste. #5  
Baxter, MN 56425  
218-454-0703  
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800-233-9513

MARSHALL  
1420 East College Drive  
Marshall, MN 56258  
507-476-3599  
FAX 507-537-6985  
800-233-9513

VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
FAX 763-315-7920  
800-233-9513

**RESULTS & DISCUSSION**

The lead-in-water sampling results ranged from below the level of detection (<0.05 ppb) to 62.1 ppb. There are sixteen (16) 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 23, 2016**

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A51202	Woodbury Middle School	Drinking Fountain Gym A	Drinking Fountain	23.8
16-A51203	Woodbury Middle School	Drinking Fountain Cafeteria	Drinking Fountain	22.0
16-A51210	Woodbury Middle School	Sink #1 Office/Prep	Faucet	52.4
16-A51211	Woodbury Middle School	Sink #2 Office/Prep	Faucet	43.6
16-A51212	Woodbury Middle School	Sink #1 Room B111	Faucet	31.0
16-A51213	Woodbury Middle School	Sink #2 Room B111	Faucet	28.3
16-A51222	Woodbury Middle School	Sink #1 Room D122	Faucet	62.1
16-A51224	Woodbury Middle School	Sink #3 Room D122	Faucet	23.4
16-A51225	Woodbury Middle School	Sink #4 Room D122	Faucet	26.5
16-A51228	Woodbury Middle School	Sink #3 Room C124	Faucet	26.7
16-A51238	Woodbury Middle School	Drinking Fountain Girls Locker Room	Drinking Fountain	23.8
16-A51240	Woodbury Middle School	Sink Room F216	Faucet	50.2
16-A51241	Woodbury Middle School	Sink Room F215	Faucet	25.2
16-A51243	Woodbury Middle School	Sink Library Workroom	Faucet	23.2
16-A51244	Woodbury Middle School	Drinking Fountain Outside Library	Drinking Fountain	44.7
16-A51246	Woodbury Middle School	Sink Room E202	Faucet	60.2

ppb – parts per billion

In addition, six (6) 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 23, 2016**

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A51200	Woodbury Middle School	Drinking Fountain #6	Drinking Fountain	16.2
16-A51214	Woodbury Middle School	Sink #3 Room B111	Faucet	19.9
16-A51215	Woodbury Middle School	Sink #4 Room B111	Faucet	16.1
16-A51219	Woodbury Middle School	Sink Room A105	Faucet	19.4
16-A51223	Woodbury Middle School	Sink #2 Room D122	Faucet	17.5
16-A51226	Woodbury Middle School	Sink #1 Room C124	Faucet	17.2

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

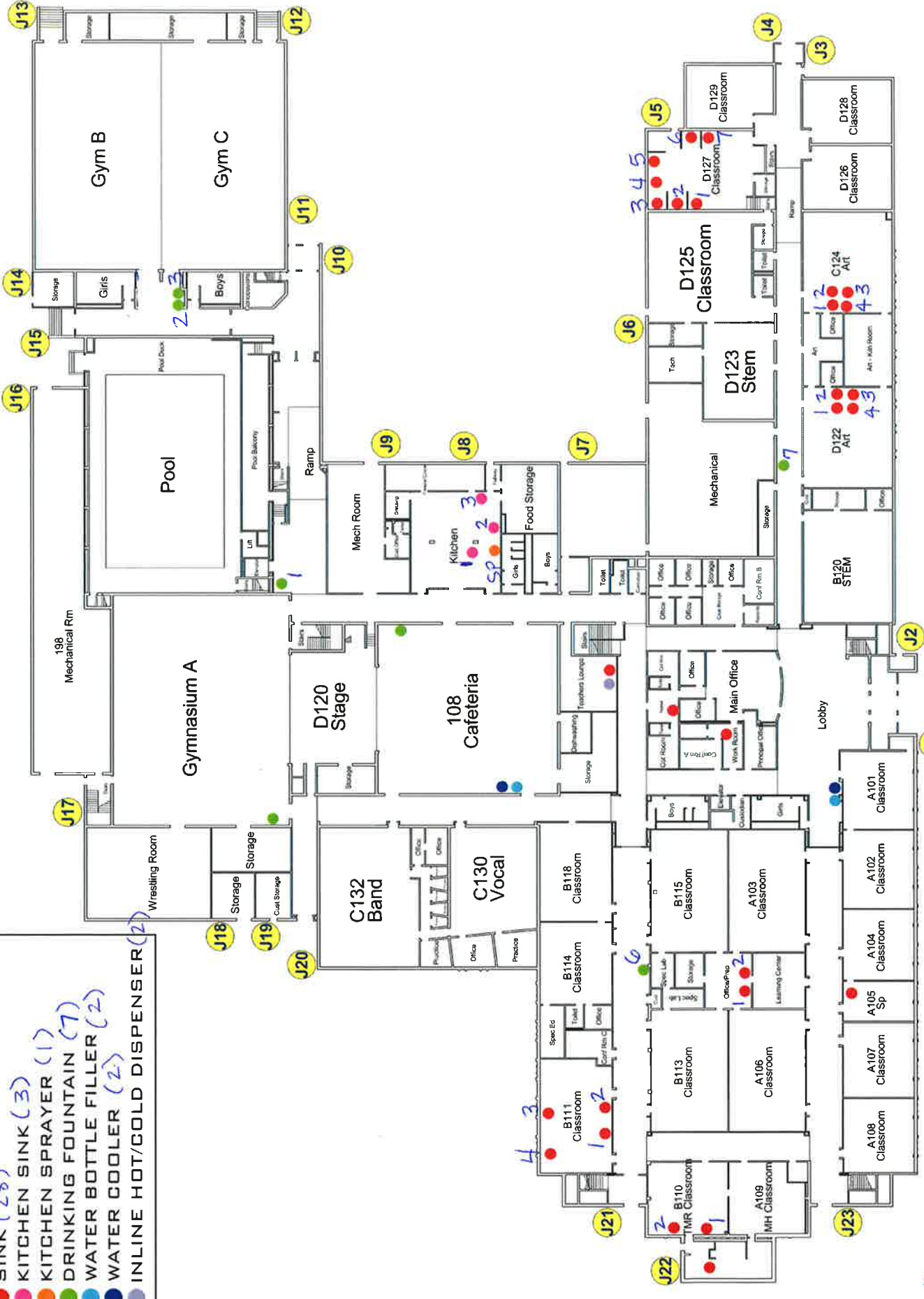
Enclosure

cc: Damien Nelson, Safety & Security

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

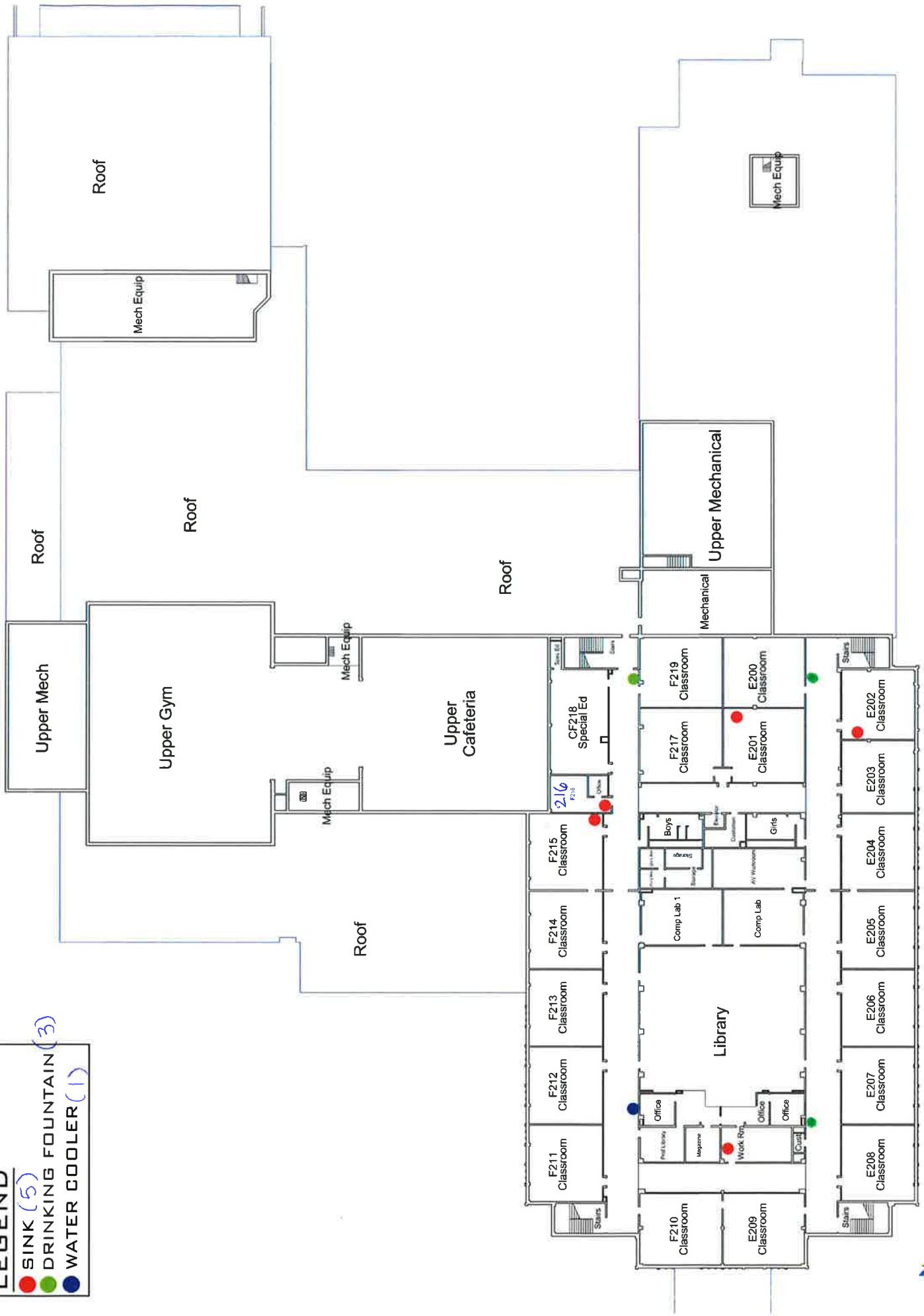
**LEGEND**

- SINK (28)
- KITCHEN SINK (3)
- KITCHEN SPRAYER (1)
- DRINKING FOUNTAIN (7)
- WATER BOTTLE FILLER (2)
- WATER COOLER (2)
- INLINE HOT/COLD DISPENSER (2)



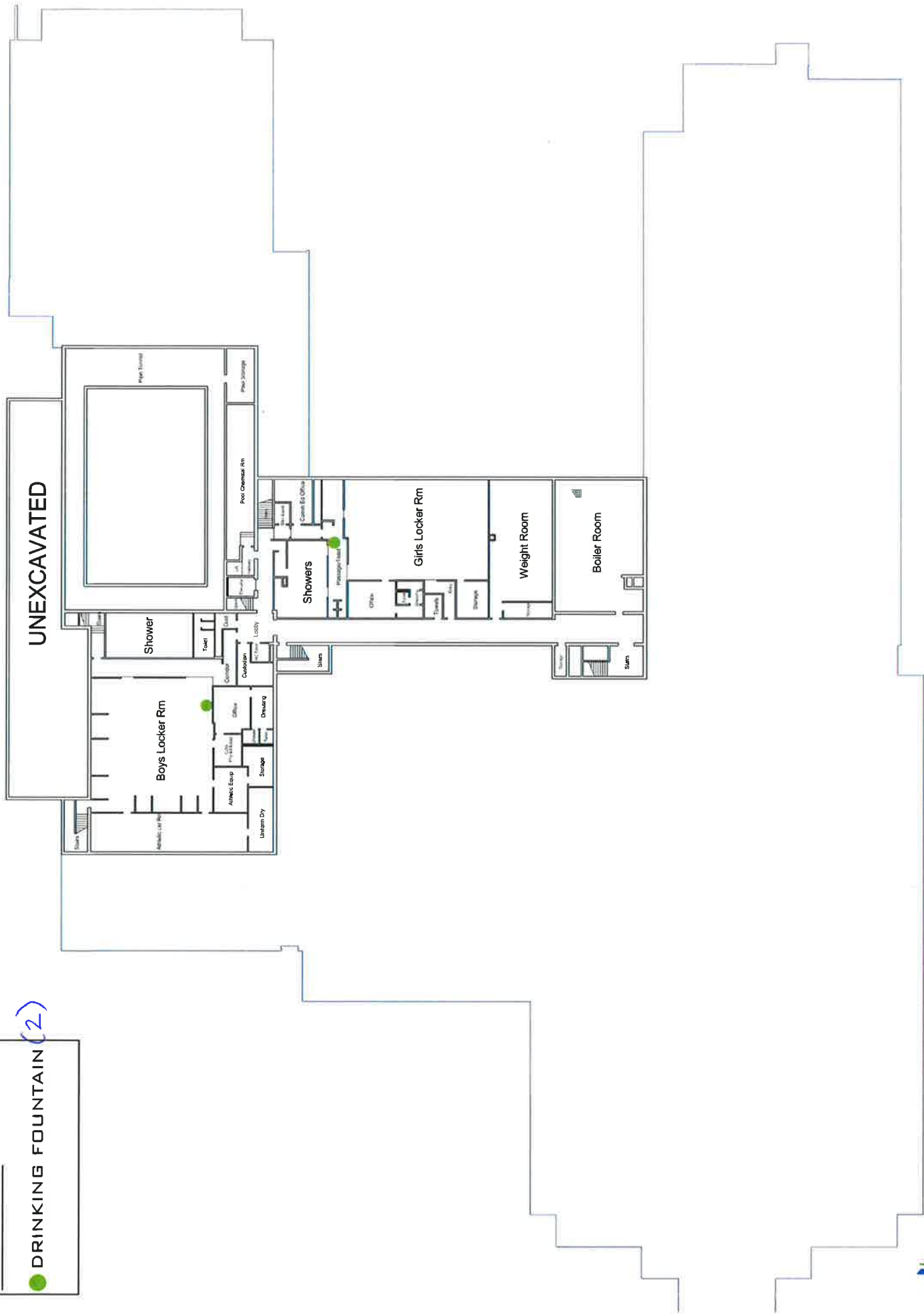
**LEGEND**

- SINK (5)
- DRINKING FOUNTAIN (3)
- WATER COOLER (1)



**LEGEND**

- DRINKING FOUNTAIN (2)



## **Appendix B**

### ***Laboratory Testing Report***





# MINNESOTA VALLEY TESTING LABORATORIES, INC.

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## PRELIMINARY REPORT ONLY

Report Date: 28 Oct 2016

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

Work Order #: 12-14694  
Account #: 002190  
Purchase Order #: 201610819

Date Received: 23 Sep 2016  
Date Sampled: 23 Sep 2016  
Temperature at Receipt: 20.1

PROJECT NAME: WOODBURY MIDDLE SCHOOL  
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51192	09232016WMS-1 KITCHEN SINK #1	4.94 ug/L	15.0	18 Oct 16	RMV
16-A51193	09232016WMS-2 KITCHEN SINK #2	6.29 ug/L	15.0	18 Oct 16	RMV
16-A51194	09232016WMS-3 KITCHEN SINK #3	10.3 ug/L	15.0	18 Oct 16	RMV
16-A51195	09232016WMS-60 KITCHEN SINK #4	3.73 ug/L	15.0	18 Oct 16	RMV
16-A51196	09232016WMS-4 KITCHEN SPRAYER	3.63 ug/L	15.0	18 Oct 16	RMV
16-A51197	09232016WMS-5 DF #1	< 0.5 ug/L	15.0	18 Oct 16	RMV
16-A51198	09232016WMS-6 DF #2	0.81 ug/L	15.0	18 Oct 16	RMV
16-A51199	09232016WMS-7 DF #3	0.73 ug/L	15.0	18 Oct 16	RMV
16-A51200	09232016WMS-10 DF #6	16.2 ug/L	15.0	18 Oct 16	RMV
16-A51201	09232016WMS-11 DF #7	12.3 ug/L	15.0	18 Oct 16	RMV
16-A51202	09232016WMS-12 DF GYM A	23.8 ug/L	15.0	18 Oct 16	RMV
16-A51203	09232016WMS-13 DF CAFETERIA	22.0 ug/L	15.0	18 Oct 16	RMV
16-A51204	09232016WMS-14 BOTTLE FILLER CAFETERIA	< 0.5 ug/L	15.0	18 Oct 16	RMV
16-A51205	09232016WMS-15 WATER COOLER CAFETERIA	0.53 ug/L	15.0	18 Oct 16	RMV
16-A51206	09232016WMS-16 INLINE FIXTURE TEACHERS	0.59 ug/L	15.0	18 Oct 16	RMV

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix # = Due to concentration of other analytes  
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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.

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 Temperature at Receipt: 20.1

PROJECT NAME: WOODBURY MIDDLE SCHOOL  
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
LOUNGE					
16-A51207	09232016WMS-17 SINK TEACHERS LOUNGE	2.90 ug/L	15.0	18 Oct 16	RMV
16-A51208	09232016WMS-18 SINK NURSES OFFICE	4.70 ug/L	15.0	18 Oct 16	RMV
16-A51209	09232016WMS-19 SINK MAIN OFFICE WORKROOM	12.8 ug/L	15.0	18 Oct 16	RMV
16-A51210	09232016WMS-20 SINK #1 OFFICE/PREP	52.4 ug/L	15.0	18 Oct 16	RMV
16-A51211	09232016WMS-21 SINK #2 OFFICE/PREP	43.6 ug/L	15.0	18 Oct 16	RMV
16-A51212	09232016WMS-22 SINK #1 B111	31.0 ug/L	15.0	18 Oct 16	RMV
16-A51213	09232016WMS-23 SINK #2 B111	28.3 ug/L	15.0	18 Oct 16	RMV
16-A51214	09232016WMS-24 SINK #3 B111	19.9 ug/L	15.0	18 Oct 16	RMV
16-A51215	09232016WMS-25 SINK #4 B111	16.1 ug/L	15.0	18 Oct 16	RMV
16-A51216	09232016WMS-26 SINK #1 B110	2.05 ug/L	15.0	18 Oct 16	RMV
16-A51217	09232016WMS-27 SINK #2 B110	2.43 ug/L	15.0	18 Oct 16	RMV
16-A51218	09232016WMS-28 SINK OFF OF RM B110	4.88 ug/L	15.0	18 Oct 16	RMV
16-A51219	09232016WMS-29 SINK A105	19.4 ug/L	15.0	18 Oct 16	RMV

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PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51220	09232016WMS-30 WATER COOLER NEAR A101	< 0.5 ug/L	15.0	18 Oct 16	RMV
16-A51221	09232016WMS-31 BOTTLE FILLER NEAR A101	< 0.5 ug/L	15.0	18 Oct 16	RMV
16-A51222	09232016WMS-32 SINK #1 D122	62.1 ug/L	15.0	18 Oct 16	RMV
16-A51223	09232016WMS-33 SINK #2 D122	17.5 ug/L	15.0	18 Oct 16	RMV
16-A51224	09232016WMS-34 SINK #3 D122	23.4 ug/L	15.0	18 Oct 16	RMV
16-A51225	09232016WMS-35 SINK #4 D122	26.5 ug/L	15.0	18 Oct 16	RMV
16-A51226	09232016WMS-36 SINK #1 C124	17.2 ug/L	15.0	18 Oct 16	RMV
16-A51227	09232016WMS-37 SINK #2 C124	10.6 ug/L	15.0	18 Oct 16	RMV
16-A51228	09232016WMS-38 SINK #3 C124	26.7 ug/L	15.0	18 Oct 16	RMV
16-A51229	09232016WMS-39 SINK #4 C124	9.46 ug/L	15.0	18 Oct 16	RMV
16-A51230	09232016WMS-40 SINK #1 D127	4.47 ug/L	15.0	18 Oct 16	RMV
16-A51231	09232016WMS-41 SINK #2 D127	5.24 ug/L	15.0	18 Oct 16	RMV
16-A51232	09232016WMS-42 SINK #3 D127	5.37 ug/L	15.0	18 Oct 16	RMV
16-A51233	09232016WMS-43 SINK #4 D127	5.14 ug/L	15.0	18 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51234	09232016WMS-44 SINK #5 D127	3.21 ug/L	15.0	18 Oct 16	RMV
16-A51235	09232016WMS-45 SINK #6 D127	3.10 ug/L	15.0	18 Oct 16	RMV
16-A51236	09232016WMS-46 SINK #7 D127	9.59 ug/L	15.0	18 Oct 16	RMV
16-A51237	09232016WMS-47 DF BOYS LOCKER RM	11.4 ug/L	15.0	18 Oct 16	RMV
16-A51238	09232016WMS-48 DF GIRLS LOCKER RM	23.8 ug/L	15.0	18 Oct 16	RMV
16-A51239	09232016WMS-49 DF OUTSIDE F219	6.37 ug/L	15.0	18 Oct 16	RMV
16-A51240	09232016WMS-50 SINK F216	50.2 ug/L	15.0	18 Oct 16	RMV
16-A51241	09232016WMS-51 SINK F215	25.2 ug/L	15.0	18 Oct 16	RMV
16-A51242	09232016WMS-52 WATER COOLER OUTSIDE LIBRARY	1.23 ug/L	15.0	18 Oct 16	RMV
16-A51243	09232016WMS-53 SINK LIBRARY WORKROOM	23.2 ug/L	15.0	18 Oct 16	RMV
16-A51244	09232016WMS-54 DF OUTSIDE LIBRARY	44.7 ug/L	15.0	18 Oct 16	RMV
16-A51245	09232016WMS-55 SINK E201	11.6 ug/L	15.0	18 Oct 16	RMV
16-A51246	09232016WMS-56 SINK E202	60.2 ug/L	15.0	18 Oct 16	RMV
16-A51248	09232016WMS-57 DF OUTSIDE ROOM E200	< 0.5 ug/L	15.0	18 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
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