October 28, 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

Providing Trusted Health & Safety Solutions

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

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 86 samples of drinking water on September 23, 2016, for lead analyses from the Woodbury 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 86 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.

RESULTS & DISCUSSION

The lead-in-water sampling results ranged from below the level of detection (<0.05 ppb) to 88.3 ppb. There are six (6) 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-A51107	Woodbury Elementary	Kitchen Sink #2	Faucet	22.4
16-A51119	Woodbury Elementary	Sink Room 102	Faucet	22.1
16-A51175	Woodbury Elementary	Sink Room 210	Faucet	28.7
16-A51179	Woodbury Elementary	Sink Room 212	Faucet	88.3
16-A51184	Woodbury Elementary	Sink Room 214C	Faucet	36.6
16-A51185	Woodbury Elementary	Sink Room 216	Faucet	37.9

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 23, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A51127	Woodbury Elementary	Sink Room 106	Faucet	15.7
16-A51180	Woodbury Elementary	Drinking Fountain Room 212	Drinking Fountain	19.4

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.

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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

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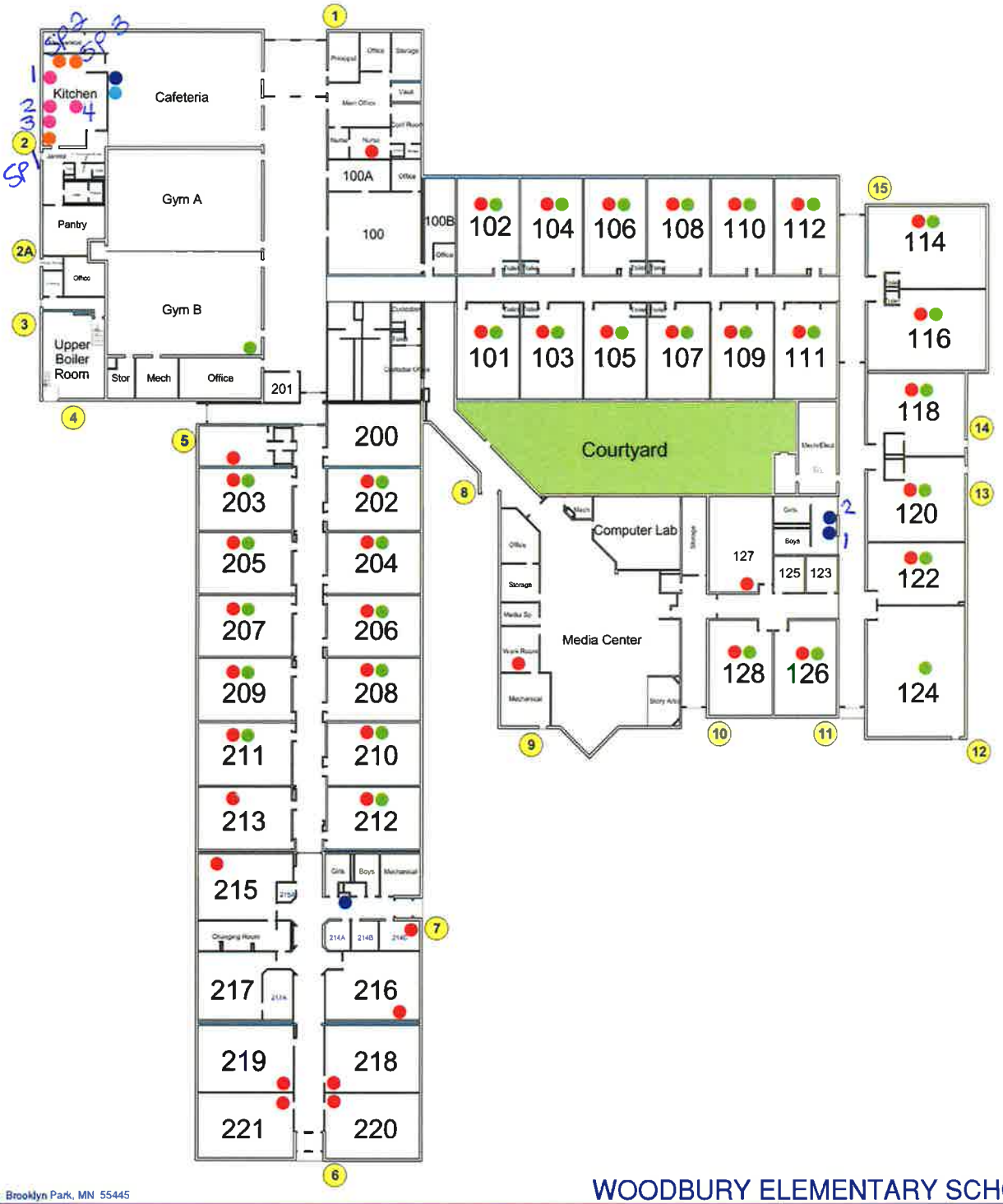
Appendix A

Site Map/Drawing

LEGEND

- SINK (43)
- KITCHEN SINK (4)
- KITCHEN SPRAYER (3)
- DRINKING FOUNTAIN (31)
- WATER BOTTLE FILLER (1)
- WATER COOLER (4)



INSTITUTE FOR ENVIRONMENTAL ASSESSMENT
9201 West Broadway Brooklyn Park, MN 55445
Tel: 763.315.7900 Toll Free: 800.233.9513
Fax: 763.315.7920

WOODBURY ELEMENTARY SCHOOL

FIRST LEVEL FLOOR PLAN

OCT. 2016

Appendix B

Laboratory Testing Report

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

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

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PRELIMINARY REPORT ONLY

Report Date: 28 Oct 2016

Work Order #: 12-14693
Account #: 002190
Purchase Order #: 201610819

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

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

PROJECT NAME: WOODBURY ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS		MCL	DATE ANALYZED	ANALYST
16-A51106	09232016WE-1 KITCHEN SINK #1	3.16	ug/L	15.0	26 Oct 16	RMB
16-A51107	09232016WE-2 KITCHEN SINK #2	22.4	ug/L	15.0	26 Oct 16	RMB
16-A51108	09232016WE-3 KITCHEN SINK #3	5.82	ug/L	15.0	26 Oct 16	RMB
16-A51109	09232016WE-4 KITCHEN SINK #4	9.62	ug/L	15.0	26 Oct 16	RMB
16-A51110	09232016WE-5 KITCHEN SPRAYER #1	3.45	ug/L	15.0	26 Oct 16	RMB
16-A51111	09232016WE-6 KITCHEN SPRAYER #2	4.73	ug/L	15.0	26 Oct 16	RMB
16-A51112	09232016WE-7 KITCHEN SPRAYER #3	1.15	ug/L	15.0	26 Oct 16	RMB
16-A51113	09232016WE-8 BOTTLE FILLER CAFETERIA	< 0.5	ug/L	15.0	26 Oct 16	RMB
16-A51114	09232016WE-9 WATER COOLER CAFETERIA	< 0.5	ug/L	15.0	26 Oct 16	RMB
16-A51115	09232016WE-10 DF IN GYM B	2.70	ug/L	15.0	26 Oct 16	RMB
16-A51116	09232016WE-11 SINK LOUNGE	3.67	ug/L	15.0	26 Oct 16	RMB
16-A51117	09232016WE-12 SINK RM 101	5.19	ug/L	15.0	26 Oct 16	RMB
16-A51118	09232016WE-13 DF RM 101	4.41	ug/L	15.0	18 Oct 16	RMV
16-A51119	09232016WE-14 SINK RM 102	22.1	ug/L	15.0	18 Oct 16	RMV
16-A51120	09232016WE-15 DF RM 102	10.0	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:
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! = 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

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PROJECT NAME: WOODBURY ELEM.
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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS		MCL	DATE ANALYZED	ANALYST
16-A51121	09232016WE-16 SINK RM 103	6.86	ug/L	15.0	18 Oct 16	RMV
16-A51122	09232016WE-17 DF RM 103	6.32	ug/L	15.0	18 Oct 16	RMV
16-A51123	09232016WE-18 SINK RM 104	11.0	ug/L	15.0	18 Oct 16	RMV
16-A51124	09232016WE-19 DF RM 104	8.28	ug/L	15.0	18 Oct 16	RMV
16-A51125	09232016WE-20 SINK RM 105	5.88	ug/L	15.0	18 Oct 16	RMV
16-A51126	09232016WE-21 DF RM 105	5.85	ug/L	15.0	18 Oct 16	RMV
16-A51127	09232016WE-22 SINK RM 106	15.7	ug/L	15.0	18 Oct 16	RMV
16-A51128	09232016WE-23 DF RM 106	7.55	ug/L	15.0	18 Oct 16	RMV
16-A51129	09232016WE-24 SINK RM 107	3.18	ug/L	15.0	18 Oct 16	RMV
16-A51130	09232016WE-25 DF RM 107	3.68	ug/L	15.0	18 Oct 16	RMV
16-A51131	09232016WE-26 SINK RM 108	4.25	ug/L	15.0	18 Oct 16	RMV
16-A51132	09232016WE-27 DF RM 108	2.95	ug/L	15.0	18 Oct 16	RMV
16-A51133	09232016WE-28 SINK RM 109	3.09	ug/L	15.0	18 Oct 16	RMV
16-A51134	09232016WE-29 DF RM 109	4.11	ug/L	15.0	18 Oct 16	RMV

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PROJECT NAME: WOODBURY ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS		MCL	DATE ANALYZED	ANALYST
16-A51135	09232016WE-30 SINK RM 110	3.54	ug/L	15.0	18 Oct 16	RMV
16-A51136	09232016WE-31 DF RM 110	2.54	ug/L	15.0	18 Oct 16	RMV
16-A51137	09232016WE-32 SINK RM 111	5.48	ug/L	15.0	18 Oct 16	RMV
16-A51138	09232016WE-33 DF RM 111	4.76	ug/L	15.0	18 Oct 16	RMV
16-A51139	09232016WE-34 SINK RM 112	2.82	ug/L	15.0	18 Oct 16	RMV
16-A51140	09232016WE-35 DF RM 112	3.49	ug/L	15.0	18 Oct 16	RMV
16-A51141	09232016WE-36 SINK RM 114	2.70	ug/L	15.0	18 Oct 16	RMV
16-A51142	09232016WE-37 DF RM 114	3.15	ug/L	15.0	18 Oct 16	RMV
16-A51143	09232016WE-38 SINK RM 116	2.99	ug/L	15.0	18 Oct 16	RMV
16-A51144	09232016WE-39 DF RM 116	1.97	ug/L	15.0	18 Oct 16	RMV
16-A51145	09232016WE-40 SINK RM 118	< 0.5	ug/L	15.0	18 Oct 16	RMV
16-A51146	09232016WE-41 DF RM 118	1.53	ug/L	15.0	18 Oct 16	RMV
16-A51147	09232016WE-42 SINK RM 120	2.60	ug/L	15.0	18 Oct 16	RMV
16-A51148	09232016WE-43 DF RM 120	1.59	ug/L	15.0	18 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51149	09232016WE-44 SINK RM 122	0.54 ug/L	15.0	18 Oct 16	RMV
16-A51150	09232016WE-45 DF RM 122	1.80 ug/L	15.0	18 Oct 16	RMV
16-A51151	09232016WE-46 DF RM 124	0.86 ug/L	15.0	18 Oct 16	RMV
16-A51152	09232016WE-47 SINK RM 126	1.24 ug/L	15.0	18 Oct 16	RMV
16-A51153	09232016WE-48 DF RM 126	< 0.5 ug/L	15.0	18 Oct 16	RMV
16-A51154	09232016WE-49 SINK RM 127	1.33 ug/L	15.0	18 Oct 16	RMV
16-A51155	09232016WE-50 SINK RM 128	0.54 ug/L	15.0	18 Oct 16	RMV
16-A51156	09232016WE-51 DF RM 128	< 0.5 ug/L	15.0	18 Oct 16	RMV
16-A51157	09232016WE-52 WATER COOLER #1 OUTSIDE RM 120	0.81 ug/L	15.0	18 Oct 16	RMV
16-A51158	09232016WE-53 WATER COOLER #2 OUTSIDE RM 120	0.84 ug/L	15.0	18 Oct 16	RMV
16-A51159	09232016WE-54 SINK RM 202	8.04 ug/L	15.0	18 Oct 16	RMV
16-A51160	09232016WE-55 DF RM 202	1.01 ug/L	15.0	18 Oct 16	RMV
16-A51161	09232016WE-56 SINK RM 203	3.15 ug/L	15.0	18 Oct 16	RMV

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16-A51162	09232016WE-57 DF RM 203	5.14	ug/L	15.0	18 Oct 16	RMV
16-A51163	09232016WE-58 SINK RM 204	3.17	ug/L	15.0	18 Oct 16	RMV
16-A51164	09232016WE-59 DF RM 204	9.90	ug/L	15.0	18 Oct 16	RMV
16-A51165	09232016WE-60 SINK RM 205	7.47	ug/L	15.0	18 Oct 16	RMV
16-A51166	09232016WE-61 DF RM 205	1.15	ug/L	15.0	18 Oct 16	RMV
16-A51167	09232016WE-62 SINK RM 206	6.23	ug/L	15.0	18 Oct 16	RMV
16-A51168	09232016WE-63 DF RM 206	3.52	ug/L	15.0	18 Oct 16	RMV
16-A51169	09232016WE-64 SINK RM 207	8.16	ug/L	15.0	18 Oct 16	RMV
16-A51170	09232016WE-65 DF RM 207	5.98	ug/L	15.0	18 Oct 16	RMV
16-A51171	09232016WE-66 SINK RM 208	6.47	ug/L	15.0	18 Oct 16	RMV
16-A51172	09232016WE-67 DF RM 208	2.99	ug/L	15.0	18 Oct 16	RMV
16-A51173	09232016WE-68 SINK RM 209	4.86	ug/L	15.0	18 Oct 16	RMV
16-A51174	09232016WE-69 DF RM 209	1.33	ug/L	15.0	18 Oct 16	RMV
16-A51175	09232016WE-70 SINK RM 210	28.7	ug/L	15.0	18 Oct 16	RMV

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16-A51176	09232016WE-71 DF RM 210	2.98	ug/L	15.0	18 Oct 16	RMV
16-A51177	09232016WE-72 SINK RM 211	6.67	ug/L	15.0	18 Oct 16	RMV
16-A51178	09232016WE-73 DF RM 211	1.91	ug/L	15.0	18 Oct 16	RMV
16-A51179	09232016WE-74 SINK RM 212	88.3	ug/L	15.0	18 Oct 16	RMV
16-A51180	09232016WE-75 DF RM 212	19.4	ug/L	15.0	18 Oct 16	RMV
16-A51181	09232016WE-76 SINK RM 213	3.67	ug/L	15.0	18 Oct 16	RMV
16-A51182	09232016WE-78 SINK RM 215	8.67	ug/L	15.0	18 Oct 16	RMV
16-A51183	09232016WE-79 WATER COOLER NEAR RM 214A	2.29	ug/L	15.0	18 Oct 16	RMV
16-A51184	09232016WE-80 SINK ROOM 214C	36.6	ug/L	15.0	18 Oct 16	RMV
16-A51185	09232016WE-81 SINK ROOM 216	37.9	ug/L	15.0	18 Oct 16	RMV
16-A51186	09232016WE-82 SINK ROOM 218	4.46	ug/L	15.0	18 Oct 16	RMV
16-A51187	09232016WE-83 SINK ROOM 219	8.75	ug/L	15.0	18 Oct 16	RMV
16-A51188	09232016WE-84 SINK ROOM 220	10.9	ug/L	15.0	18 Oct 16	RMV
16-A51189	09232016WE-85 SINK ROOM 221	5.10	ug/L	15.0	18 Oct 16	RMV

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MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

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MEMBER ACIL

PRELIMINARY REPORT ONLY

Report Date: 28 Oct 2016

Work Order #: 12-14693
Account #: 002190
Purchase Order #: 201610819

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

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

PROJECT NAME: WOODBURY ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS		MCL	DATE ANALYZED	ANALYST
16-A51190	09232016WE-86 SINK NURSES RM	8.71	ug/L	15.0	18 Oct 16	RMV
16-A51191	09232016WE-87 SINK WORK ROOM	5.27	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
! = 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

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