

January 22, 2019



Dan Kretsinger
Richfield Public Schools
7001 Harriet Avenue South
Richfield, MN 55423

**RE: Richfield High School
Lead-in-Water First Draw – Initial Testing
IEA Project #201811159**

Dear Mr. Kretsinger:

At the request of Richfield Public Schools, IEA collected water samples from identified 4 potable water sources on January 10, 2019 for lead analyses from the following buildings:

- Richfield High School (4)

The purpose of the sampling is to document lead content in the sampled locations. These 4 water sources were missed during the initial testing that was conducted on November 14, 2018.

INTRODUCTION

Minnesota Statute 121A.335 requires public school buildings serving pre-kindergarten through grade 12 to test for lead in potable water fixtures every five years. The *3Ts for Reducing Lead in Drinking Water Toolkit (2018)* and the Lead Contamination Control Act (LCCA) of 1988 were created by the Environmental Protection Agency (EPA) to identify and reduce lead in drinking water. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead content in water may increase when the water is allowed to sit undisturbed in the system. Exposure to lead is a health concern.

The EPA recommends taking action when elevated lead levels are noted in water fixtures. The MDH and MDE recommend taking a fixture out of service if levels are 20 parts per billion (ppb) or higher. The MDH and MDE also recommend taking action according to their guidelines for fixtures with levels of 2 parts per billion (ppb) or higher.

METHODOLOGY

IEA collected 4 first-draw (unless otherwise noted) samples of approximately 250 milliliters (ml) of water. “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. MDH recommends fixtures not be used 6 to 18 hours prior to sampling fixtures.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.
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BROOKLYN PARK
9201 West Broadway, #600
Brooklyn Park, MN 55445
763-315-7900 / FAX 763-315-7920
800-233-9513

MANKATO
610 North Riverfront Drive
Mankato, MN 56001
507-345-8818 / FAX 507-345-5301
800-233-9513

ROCHESTER
210 Woodlake Drive SE
Rochester, MN 55904
507-281-6664 / FAX 507-281-6695
800-233-9513

BRAINERD
601 NW 5th Street, Ste. #4
Brainerd, MN 56401
218-454-0703 / FAX 218-454-0703
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
800-233-9513

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 (<0.5 ppb) or to 10.2 ppb. Thus, lead content was below Richfield Public Schools designated action level of 15 ppb. The laboratory report, which includes sampling locations and maps of each building is provided in Appendix A. Laboratory results are reported in micrograms per liter ($\mu\text{g/L}$) which is equivalent to parts per billion (ppb).

RECOMMENDATIONS

There were no samples that exceeded Richfield Public Schools designated action level of 15 ppb.

The MDH recommends labeling water fixtures not included in the sampling program, including: bathroom taps, hose bibbs, laboratory faucets/sinks or custodial closet sinks.

It is recommended that a copy of the district's Lead in Water Testing Report be made available to staff and the public through the district's administrative offices. Per Minnesota Statutes, section 121A.335, a school district that has tested its buildings for the presence of lead shall make the results of the testing available to the public for review and must notify parents of the availability of the information.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from Richfield Public Schools at the indicated locations. This report does not reflect variations in conditions that may occur across the site, property, or facility. 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 #7571 dated October 17, 2018 regarding lead-in-water sampling at Richfield Public Schools 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.

Reviewed by,



Daniel Holcomb
EH&S Account Manager



Mary Ferrian
EH&S Division Manager

DH/wb 012219

Enc.

Appendix A

Laboratory Testing Report
Maps
Sampling Locations



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

MEMBER
ACIL

www.mvttl.com

Report Date: 17 Jan 2019

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

Work Order #: 12-3479
 Account #: 002190
 Purchase Order #: 201811159

Date Received: 11 Jan 2019
 Date Sampled: 10 Jan 2019
 Temperature at Receipt: 11.5C

PROJECT NAME: RICHFIELD HIGH SCHOOL
 PROJECT NUMBER: 201811159

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
19-A1569	01102019RHS-1 HALLWAY OUTSIDE OF GYM 5 WC	< 0.5 ug/L	15.0	16 Jan 19	TMM
19-A1570	01102019RHS-2 ROOM 107 SINK	3.65 ug/L	15.0	16 Jan 19	TMM
19-A1571	01102019RHS-3 ROOM 349 SINK	5.13 ug/L	15.0	16 Jan 19	TMM
19-A1572	01102019RHS-4 ROOM 341 SOUTH SINK	10.2 ug/L	15.0	16 Jan 19	TMM

Approved by:

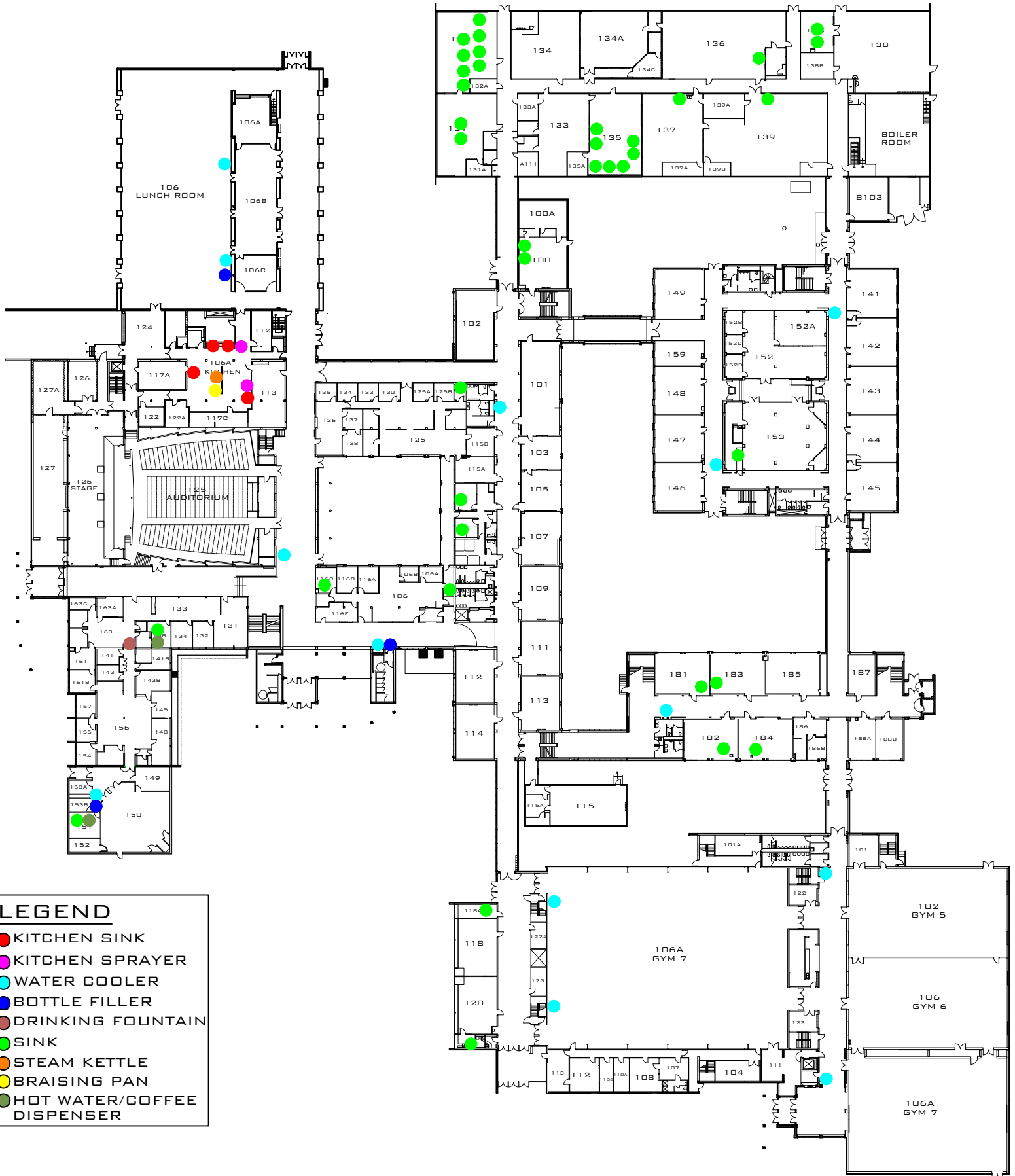
Dan O'Connell **David Smahel**
 Chemistry Laboratory Managers New Ulm, MN

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 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.



LEGEND

- KITCHEN SINK
- KITCHEN SPRAYER
- WATER COOLER
- BOTTLE FILLER
- DRINKING FOUNTAIN
- SINK
- STEAM KETTLE
- BRAISING PAN
- HOT WATER/COFFEE DISPENSER

