



8612 Eagle Creek Parkway, Savage, MN 55378-1284
Tel: 952 746-5880 ♦ Fax: 952 746-5882
mailbox@FieldConsultingInc.com

June 6, 2022

ISD 831
6100 North 210th Street
Forest Lake, MN 55025
Attn: Bill Schwartz, Supervisor of Buildings and Grounds

RE: Districtwide Lead in Drinking Water
Project Number: 22057

I. INTRODUCTION

This report presents the results of testing for lead in drinking water using first draw (initial) sampling following the Minnesota Department of Health (MDH) & Minnesota Department of Education (MDE) guide *Reducing Lead in Drinking Water (May 2021 Revision)*.

Per the plan, Field Environmental Consulting, Inc. (FIELD ENVIRONMENTAL) tested water outlets for Forest Lake Central Learning Center.

Samples were collected by Parker Prose of FIELD ENVIRONMENTAL on March 4, 2022 with resampling on May 5, 2022.

II. DISCUSSION

Lead is a toxic metal that is harmful to human health when it is ingested or inhaled. Unlike other environmental contaminants, lead is stored in our bones and can be released over time into the bloodstream. Lead exposure is a serious health concern, especially for young children and infants. Children's bodies absorb more lead than adults. Exposure to high levels of lead in children and infants may result in developmental delays, lower IQ's, hearing loss, hyperactivity, and learning disabilities.

Lead found in drinking water comes primarily from materials and components associated with the water distribution system and plumbing. While public water distribution systems may have lead components, the highest concentrations of lead are typically found nearest to the tap.

The United States Environmental Protection Agency (EPA) has federal regulations regarding lead in drinking water. Specifically for Minnesota schools, the MDH & MDE worked together to pass a state statute (Minnesota State Statute 121A.335) which mandates methods, testing and communication of lead concentrations in drinking water.

Under the statute, school districts are required to:

- Efficiently test for lead in school buildings serving students from prekindergarten to grade 12.
- Create a schedule for testing that includes all school district buildings and charter schools serving students where there is a source of water that may be consumed by students (used in cooking or directly by drinking). Each tap must be tested at least once every five years thereafter.
- Make the results of testing available to the public to review and notify parents/guardians of the availability of the information.

III. METHODOLOGY

FIELD ENVIRONMENTAL collected first draw samples. First draw samples consist of water emitted from a fixture after the outlet has been sitting for a period of 8 hours or more (not exceeding 18 hours). Water was collected immediately in the morning before it could be used for other purposes. First draw samples were collected using clean 250 milliliter (mL) sampling bottles. The bottles were filled to the top, capped, recorded, and transported to a certified drinking water laboratory. Results from first draw sampling indicate lead levels for water that has been in direct contact with the faucet or drinking fountain and the section of plumbing closest to the outlet. Analysis was conducted by Minnesota Valley Testing Laboratories, Inc. of New Ulm, Minnesota using EPA Method 200.8 for determination of trace elements in drinking water.

IV. RESULTS

A complete table of all locations that were sampled and corresponding results is provided in Appendix A. Building maps indicating sampling locations and results are provided in Appendix B. Minnesota Valley Testing Laboratories Inc. laboratory reports are provided in Appendix C.

A total of twenty-three (23) samples were collected at Forest Lake Central Learning Center.

V. CONCLUSIONS

Schools are encouraged to reduce lead in drinking water levels to below 2 ppb. The EPA, MDH and MDE strongly recommend that actions be taken if lead concentrations exceed 20 parts per billion (ppb) or 20 micrograms per liter (µg/L).

Two (2) out of the twenty-two (22) samples collected were initially above the recommended limit of 20 ppb or 20 µg/L. The elevated fixtures were replaced or taken out of service and retested.

None of the retested fixtures were above the recommended limit of 20 ppb or 20 µg/L.

School Name: Forest Lake Central Learning Center						
Sampling Date: march 4, 2022						
Level	Room Number	Location	Sample ID	Type S = Sink DF = Drinking Fountain SF = Sink/Fountain Combination WC = Water Cooler	Lead Result (ppb)	Re-testing Lead Result (ppb)
First Floor	D9	Office	03-CLC-D6-SNK	S	23.4	FIXTURE REMOVED
First Floor	C23	Office	04-CLC-D9-SNK	S	42.9	<0.5

VI. RECOMMENDATIONS

For lead concentrations between 2 ppb (µg/L) to 20 ppb (µg/L), the tap may be used for cooking and drinking water. However, the District should consider implementing lead reduction strategies to include cleaning faucet aerators or flushing the taps on a scheduled basis.

VII. COMMUNICATION

Minnesota State Statute 121A.335 states that 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.

School management should:

- Communicate results according to their School Board Policy or Lead in Water Program;
- Assign a designated person(s) to be the contact for lead in drinking water;
- Notify affected individuals about the availability of the testing and results including corrective actions; not to exceed 30 days after receiving results.

VIII. REMARKS

The environmental services performed by FIELD ENVIRONMENTAL's technicians, analysts and project managers for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed.

No warranty or guarantee, expressed or implied, is made regarding the findings, conclusions, or recommendations contained in this report.

FIELD ENVIRONMENTAL appreciates the opportunity to provide services to meet your environmental needs. Any questions regarding the fieldwork, sample results or presented findings should be directed to Field Environmental Consulting, Inc.

PREPARED and REVIEWED BY:

Field Environmental Consulting, Inc.



Parker Prose
Safety & IAQ Specialist
Field Environmental Consulting

Attachments

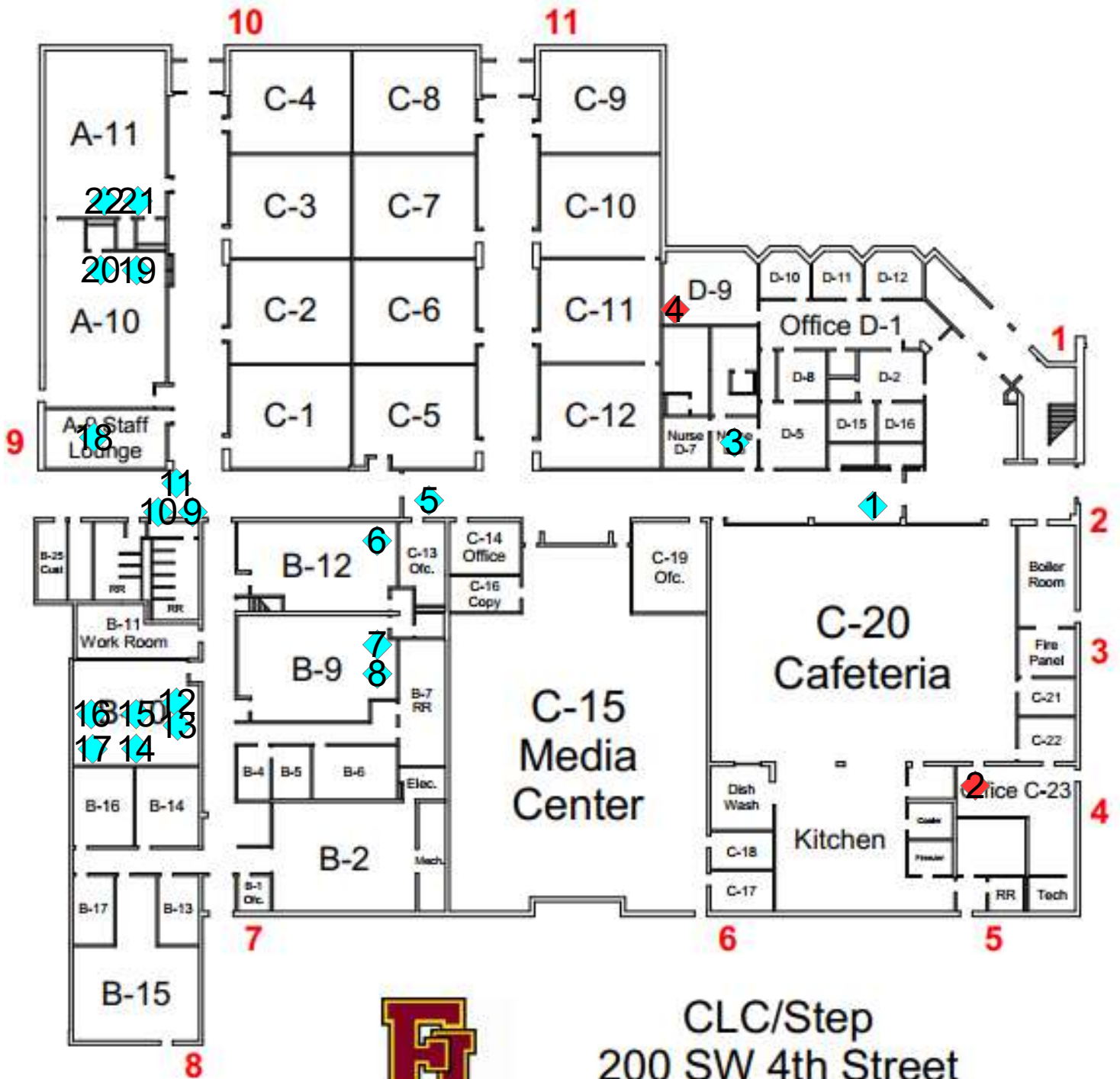
Appendix A: Sample Locations and Results Tables
Appendix B: Drawings
Appendix C: Laboratory Reports

APPENDIX A
SAMPLE LOCATIONS AND RESULTS TABLES

School Name: Central Learning Center
Sampling Date March 4, 2022 and May 5, 2022
Sampling Conducted By: Parker Prose

Level	Room Number	Location	Sample ID	Type S = Sink DF = Drinking Fountain SF = Sink/Fountain Combination WC = Water Cooler	Lead Result (ppb)
First	N/A	Corridor	01-CLC-CAFE-DF	DF	5.39
First	C23	Office	02-CLC-C23-SNK	SNK	23.4
First	C23	Office	RETEST: 01-CLC-C23-S	SNK	< 0.5
First	D6	Nurse	03-CLC-D6-SNK	SNK	18.9
First	D9	Conference Room	04-CLC-D9-SNK	SNK	42.9
First	N/A	Corridor	05-CLC-C13-DF	DF	0.95
First	B12	Classroom	06-CLC-B12-SNK	SNK	1.48
First	B9	Classroom	07-CLC-B9-SNK	SNK	1.45
First	B9	Classroom	08-CLC-B9-DF	DF	2.11
First	N/A	Corridor	09-CLC-BHALL-WC	WC	< 0.5
First	N/A	Corridor	10-CLC-BHALL-WC	WC	< 0.5
First	N/A	Corridor	11-CLC-BHALL-BF	BF	< 0.5
First	B10	Classroom	12-CLC-B10 FRONT-SNK	SNK	< 0.5
First	B10	Classroom	13-CLC-B10 FRONT-SP	SP	0.51
First	B10	Classroom	14-CLC-B10 MID-SNK	SNK	< 0.5
First	B10	Classroom	15-CLC-B10 MID-SP	SP	< 0.5
First	B10	Classroom	16-CLC-B10 BACK-SNK	SNK	< 0.5
First	B10	Classroom	17-CLC-B10 BACK-SP	SP	< 0.5
First	A9	Lounge	18-CLC-LOUNGE-SNK	SNK	7.17
First	A10	Classroom	19-CLC-A10-SNK	SNK	0.73
First	A10	Classroom	20-CLC-A10-DF	DF	1.34
First	A11	Classroom	21-CLC-A11-SNK	SNK	< 0.5
First	A11	Classroom	22-CLC-A11-DF	DF	1.42

APPENDIX B
DRAWINGS



First Draw Sampling (March 2022)

- ◆ Lead <= 20 ppb
- ◆ Lead > 20 ppb

Central Learning Center
 Lower Level
 Lead in Water
 Project # 22057

APPENDIX C
LABORATORY REPORTS



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: 16 Mar 2022

Work Order #: 12-6138
Account #: 73784

PARKER PROSE
FIELD ENVIRONMENTAL CONSULTING
8612 EAGLE CREEK PARKWAY
SAVAGE MN 55378

Date Received: 4 Mar 2022
Date Sampled: 4 Mar 2022
Time Sampled: 6:00
Temperature at Receipt: 20.1C

PROJECT NAME: 22057-FOREST LAKE-CLC

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
22-A9418	01-CLC-CAFE-DF	5.39 ug/L	15.0	14 Mar 22	TMM
22-A9419	02-CLC-C23-SNK	23.4 ug/L	15.0	14 Mar 22	TMM
22-A9420	03-CLC-D6-SNK	18.9 ug/L	15.0	14 Mar 22	TMM
22-A9421	04-CLC-D9-SNK	42.9 ug/L	15.0	14 Mar 22	TMM
22-A9422	05-CLC-C13-DF	0.95 ug/L	15.0	14 Mar 22	TMM
22-A9423	06-CLC-B12-SNK	1.48 ug/L	15.0	14 Mar 22	TMM
22-A9424	07-CLC-B9-SNK	1.45 ug/L	15.0	14 Mar 22	TMM
22-A9425	08-CLC-B9-DF	2.11 ug/L	15.0	14 Mar 22	TMM
22-A9426	09-CLC-BHALL-WC	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9427	10-CLC-BHALL-WC	< 0.5 ug/L	15.0	14 Mar 22	TMM

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.

AN EQUAL OPPORTUNITY EMPLOYER



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: 16 Mar 2022

Work Order #: 12-6138
Account #: 73784

PARKER PROSE
FIELD ENVIRONMENTAL CONSULTING
8612 EAGLE CREEK PARKWAY
SAVAGE MN 55378

Date Received: 4 Mar 2022
Date Sampled: 4 Mar 2022
Time Sampled: 6:00
Temperature at Receipt: 20.1C

PROJECT NAME: 22057-FOREST LAKE-CLC

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
22-A9428	11-CLC-BHALL-BF	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9429	12-CLC-B10 FRONT-SNK	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9430	13-CLC-B10 FRONT-SP	0.51 ug/L	15.0	14 Mar 22	TMM
22-A9431	14-CLC-B10 MID-SNK	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9432	15-CLC-B10 MID-SP	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9433	16-CLC-B10 BACK-SNK	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9434	17-CLC-B10 BACK-SP	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9435	18-CLC-LOUNGE-SNK	7.17 ug/L	15.0	14 Mar 22	TMM
22-A9436	19-CLC-A10-SNK	0.73 ug/L	15.0	14 Mar 22	TMM
22-A9437	20-CLC-A10-DF	1.34 ug/L	15.0	14 Mar 22	TMM

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.

AN EQUAL OPPORTUNITY EMPLOYER



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: 16 Mar 2022

Work Order #: 12-6138
Account #: 73784

PARKER PROSE
FIELD ENVIRONMENTAL CONSULTING
8612 EAGLE CREEK PARKWAY
SAVAGE MN 55378

Date Received: 4 Mar 2022
Date Sampled: 4 Mar 2022
Time Sampled: 6:00
Temperature at Receipt: 20.1C

PROJECT NAME: 22057-FOREST LAKE-CLC

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
22-A9438	21-CLC-A11-SNK	< 0.5 ug/L	15.0	14 Mar 22	TMM
22-A9439	22-CLC-A11-DF	1.42 ug/L	15.0	14 Mar 22	TMM

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.

AN EQUAL OPPORTUNITY EMPLOYER



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: 9 May 2022

Work Order #: 12-8848
 Account #: 73784

PARKER PROSE
 FIELD ENVIRONMENTAL CONSULTING
 8612 EAGLE CREEK PARKWAY
 SAVAGE MN 55378

Date Received: 3 May 2022
 Date Sampled: 21 Apr 2022
 Time Sampled: 6:00
 Temperature at Receipt: 19.8 C

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
22-A19989	01-CLC-C23-5	< 0.5 ug/L	15.0	5 May 22	KAM

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.

AN EQUAL OPPORTUNITY EMPLOYER