April 16, 2024

Providing Trusted
Health and Safety Solutions

Jason Bichler
Director of Buildings and Grounds
St. Michael-Albertville ISD #885
11343 50th Street NE
Albertville, MN 55301

RE: Lead-in-Water First Draw – Follow-up Testing #3
IEA Project #202310887

Dear Mr. Bichler:

At the request of St. Michael-Albertville ISD #885, IEA, Inc. (IEA) collected ten (10) follow-up water samples for lead analyses in response to previously elevated sample results. This current sampling occurred on April 4, 2024. The purpose of the sampling was to document lead content of water in the ten (10) locations post-remediation; to compare the results to initial "first draw" sampling conducted on November 14-15, 2023, and to document current lead content in the sampled locations regarding the district designated action level of 5 parts per billion (ppb).

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.

First draw samples, collected on November 14-15, 2023, showed one hundred forty-five (145) samples had elevated lead content above the Action Level. This round of follow-up sampling is occurring to measure the lead content after new fixtures were installed.

METHODOLOGY

IEA collected ten (10) 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 water stand in pipes for at least 8 hours, but not more than 18 hours prior to sampling identified fixtures.

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 1.51 ppb to 9.8 ppb. These ten (10) locations are displayed in *Table 1: Water Testing Results*. The laboratory reports are provided in Appendix A. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to ppb.

Table 1: Water Testing Results – November 14-15, 2023, and April 4, 2024

Sample Number	Building	Sampling Location	Fixture Type	Remediation Method	Lead Results (ppb)	
					11/14/2023 or 11/15/2023	4/4/2024
04042024BW-1	Big Woods Elementary	Kitchen SE Kitchen	Sink	Fixture Replaced	9.28	6.09
04042024BW-2	Big Woods Elementary	Dish Room Middle Kitchen	Sink	Fixture Replaced	7.26	4.37
04042024BW-3	Big Woods Elementary	Dish Room SE Kitchen	Sink	Fixture Replaced	11.3	6.49
04042024BW-4	Big Woods Elementary	Kitchen NW	Steam Kettle	Fixture Replaced	7.87	3.22
04042024BW-5	Big Woods Elementary	Kitchen Middle	Steam Kettle	Fixture Replaced	21	3.12
04042024BW-6	Big Woods Elementary	Kitchen SW	Sprayer	Fixture Replaced	22.5	9.8
04042024MSE-1	Middle School East	Kitchen West Wall North Kitchen	Sink	Fixture Replaced	15.1	2.84
04042024AP-1	Albertville Primary	Kitchen	Steam Kettle	Fixture Replaced	9.86	1.51
04042024MSW-1	Middle School West	Kitchen Main Room South	Sprayer	Fixture Replaced	16.3	8.04
04042024MSW-2	Middle School West	Kitchen East Room North Kitchen	Sink	Fixture Replaced	9.6	4.43

ppb – parts per billion

RECOMMENDATIONS

IEA recommends implementing one of the following treatment options for the four (4) fixtures with lead content exceeding the district designated action level of 5 ppb.

- The fixture should be removed from service by disconnecting it from the water supply and/or posting signs that the water is not potable and notify staff accordingly.
- Bottled water should be provided to occupants which meets FDA and state standards. A written statement from the bottled water distributor guaranteeing the standards are met should be filed with the district.
- Lead pipes on the property and district portion of the service line should be replaced.
- The plumbing system should be reconfigured to redirect the water to bypass any known sources of lead contamination.
- The fixture should be replaced with a "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 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.
- A drinking water treatment unit certified to NSF/ANSI 53 or NSF/ANSI 42 for lead reduction should be installed.
- Flush testing should be conducted in accordance with MDH, MDE, and EPA guidelines to determine if flushing will reduce lead content. If results indicate that flushing will reduce lead to acceptable levels:
  - A flushing program should be implemented which includes documentation of daily flushing and periodic program review.
  - It should be noted that elevated levels can return quickly following flushing depending upon the age and condition of the plumbing. The plumbing components should be replaced to ensure any repair or replacement is done using only “lead-free” solder can address high lead levels.
  - Existing wires in the building that could be grounded to lead piping should be checked, since the electrical current produced may accelerate the corrosion of the pipes. The wires could also be checked to find an alternative grounding system.

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

If the school receives its water from a Community Public Water Supply, such as a municipal water supply, MDH encourages the school to work with them to assess the source contribution of lead coming into the school.

It is recommended 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. 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 St. Michael-Albertville ISD #885 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 #11536 dated August 15, 2023, regarding lead-in-water sampling for St. Michael-Albertville ISD #885, 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.

Daniel Holcomb, CSP, CHMM
EH&S Senior Account Manager

DH/khb 04162024

Enc.

Appendix A

Laboratory Testing Reports and Building Maps

MINNESOTA VALLEY TESTING LABORATORIES, INC.
1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Albertville Primary (44842)
Account #: 2190
Project #: 202310887

Client: Institute for Environmental Assessment (IEA)
PO: 202310887

Emma Squires-Sperling
IEA / Brooklyn Park
9201 W Broadway Suite #600
Brooklyn Park, MN 55445

Certificate of Analysis

Approval

All data reported has been reviewed and approved by:

Dave Smahel, Inorganic Chemistry/Feed Lab Manager New Ulm, MN

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:
MN LAB # 027-015-125ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:
MN LAB # 038-999-267ND W/DW # ND-016

Workorder Comments

All samples were preserved with nitric acid upon receipt at the laboratory.

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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Albertville Primary (44842) **Client:** Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID: 44842001 **Date Collected:** 04/04/2024 06:50 **Matrix:** Potable Water
Sample ID: 04042024AP-1 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen-STK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**1.51**	ug/L	15	EPA 200.8	04/10/2024 17:34	

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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Albertville Primary (44842) **Client:** Institute for Environmental Assessment (IEA)

Institute for Environmental
WO: 44842

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www.MVTL.com

Workorder: Albertville Primary (44842) **Client:** Institute for Environmental Assessment (IEA)

44842

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

Client Name	St. Michael-Albertville ISD #885	Building Name	Albertville Primary	Analytical Lab	MVTL
Contact Name	Emma Squires-Sperling Daniel Holcomb	Project #	202310887	Project Name	2023-2024 STMA LIW
Phone #	763-315-7900	IEA Fax #	763-315-7927	Written Sample Results To	lab@ieasafety.com
Other Information					
Sampled By	Daniel Holcomb	Date 4/4/2024	Time 6:50 A.M.	Analyzed By (Company)	Analyst / Date & Time
Reviewed By		Date	Time		
Shipped By	Daniel Holcomb	Date 4/5/2024	Time 9:00 A.M.	Turnaround Time	Notes
Received By		Date	Time	Sample Condition	Temperature

Lab Number	Sample Number	Sample Location	Sample Type: Water	Soil	Other	Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
001	04042024AP-1	Kitchen - STK	X			4/4/2024	250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	

SP 5 Apr 24 1414

AMB 20.0 870

5 Apr 24 1414 AMB

Original - Analytical Lab
Copy - Client File
Copy - IEA Lab

MVTL LABORATORIES, Inc. 1-800-782-3557

Date: 5 Apr 24
Time: 1414 ☐ AM ☒ PM
By: SP
Account Name: IEA / AP
Account #: –
Bill of Lading #: –
Cooler #: –
Temp: 20.0 °C
ROI ☐
Ambient ☒
Tracking #: –
TM#: 870
Ice Crystals Present In Sample ☐
Other: –
MVTL Courier: Dan
MVTL Route: Metro
Walk-In ☐ Mail ☐
UPS Air ☐ UPS Ground ☐
FedEx Air ☐ Fed Ex Ground ☐
SpeeDee ☐

Containers Supplied by MVTL: Yes ☒ No ☐
Designate customer supplied containers as "Other" in container size column

Comments:

Number	Containers Size (mL)	Container Type	Preservation	pH
1	(100) (120) (125) (250) (290) (500) (1000) Other [250 circled]	(G) (P) (AG) (AP) [P circled]	NaHSO₄ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB* [NONE circled]	<2 >9 >12 N/A Add [N/A circled]
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	
	Low Level Mercury Kit	**!!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!**		n/a
	4 oz Jar	Clear Amber	MeOH None	n/a
	4 oz Jar	Clear Amber	MeOH None	n/a
	2 oz Jar	Clear Amber	HCl H_3PO_4 H_2SO_4 None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H_3PO_4 H_2SO_4 None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H_3PO_4 H_2SO_4 None	
	Trip Blank Individual Set of 2 Set of 3	n/a		
	Moisture Vial	n/a		
	Manure Bottle	n/a		

*ANY CONTAINER SENT TO A SUBCONTRACT LABORATORY WILL NOT BE CHECKED FOR PRESERVATION!

LEGEND

STEAM KETTLE

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

ALBERTVILLE PRIMARY SCHOOL

FIRST LEVEL FLOOR PLAN

ST. MICHAEL-ALBERTVILLE ISD #885
APRIL 2024

N

MINNESOTA VALLEY TESTING LABORATORIES, INC.
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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Big Woods Elementary (44839)
Account #: 2190
Project #: 202310887

Client: Institute for Environmental Assessment (IEA)
PO: 202310887

Emma Squires-Sperling
IEA / Brooklyn Park
9201 W Broadway Suite #600
Brooklyn Park, MN 55445

Certificate of Analysis

Approval

All data reported has been reviewed and approved by:

Dave Smahel, Inorganic Chemistry/Feed Lab Manager New Ulm, MN

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:
MN LAB # 027-015-125ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:
MN LAB # 038-999-267ND W/DW # ND-016

Workorder Comments

All samples were preserved with nitric acid upon receipt at the laboratory.

Report Date: Thursday, April 11, 2024 8:27:09 AM

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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Big Woods Elementary (44839) **Client:** Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID: 44839001 **Date Collected:** 04/04/2024 06:30 **Matrix:** Potable Water
Sample ID: 04042024BW-1 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen SE Kitchen SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**6.09**	ug/L	15	EPA 200.8	04/10/2024 17:18	

Lab ID: 44839002 **Date Collected:** 04/04/2024 06:30 **Matrix:** Potable Water
Sample ID: 04042024BW-2 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Dishroom Middle Kitchen SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**4.37**	ug/L	15	EPA 200.8	04/10/2024 17:19	

Lab ID: 44839003 **Date Collected:** 04/04/2024 06:30 **Matrix:** Potable Water
Sample ID: 04042024BW-3 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Dishroom SE Kitchen SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**6.49**	ug/L	15	EPA 200.8	04/10/2024 17:20	

Lab ID: 44839004 **Date Collected:** 04/04/2024 06:30 **Matrix:** Potable Water
Sample ID: 04042024BW-4 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen NW STK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**3.22**	ug/L	15	EPA 200.8	04/10/2024 17:21	

Lab ID: 44839005 **Date Collected:** 04/04/2024 06:30 **Matrix:** Potable Water
Sample ID: 04042024BW-5 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen Middle STK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**3.12**	ug/L	15	EPA 200.8	04/10/2024 17:22	

Lab ID: 44839006 **Date Collected:** 04/04/2024 06:30 **Matrix:** Potable Water
Sample ID: 04042024BW-6 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen SW SPR

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**9.80**	ug/L	15	EPA 200.8	04/10/2024 17:30	

Report Date: Thursday, April 11, 2024 8:27:09 AM

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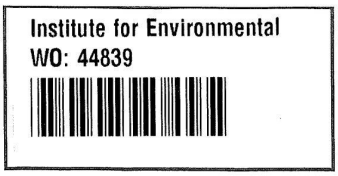
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Big Woods Elementary (44839) **Client:** Institute for Environmental Assessment (IEA)



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Workorder: Big Woods Elementary (44839) **Client:** Institute for Environmental Assessment (IEA)

44839

A1:O18

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

Client Name	St. Michael-Albertville ISD #885	Building Name	Big Woods Elementary	Analytical Lab	MVTL
Contact Name	Emma Squires-Sperling Daniel Holcomb	Project #	202310887	Project Name	2023-2024 STMA LIW
Phone #	763-315-7900	IEA Fax #	763-315-7927	Written Sample Results To	lab@ieasafety.com
Other Information					
Sampled By	Daniel Holcomb	Date 4/4/2024	Time 6:30 A.M	Analyzed By (Company)	Analyst / Date & Time
Reviewed By		Date	Time		
Shipped By	Daniel Holcomb	Date 4/5/2024	Time 9:00 A.M.	Turnaround Time / Notes	
Received By		Date	Time	Sample Condition / Temperature	

Lab Number	Sample Number	Sample Location	Sample Type: Water	Soil	Other	Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
1	04042024BW-1	Kitchen SE Kitchen - SNK	X			4/4/2024	250mL unpreserved	Lead	
2	04042024BW-2	Dishroom Middle Kitchen - SNK	X			4/4/2024	250mL unpreserved	Lead	
3	04042024BW-3	Dishroom SE Kitchen - SNK	X			4/4/2024	250mL unpreserved	Lead	
4	04042024BW-4	Kitchen NW - STK	X			4/4/2024	250mL unpreserved	Lead	
5	04042024BW-5	Kitchen Middle - STK	X			4/4/2024	250mL unpreserved	Lead	
6	04042024BW-6	Kitchen SW - SPR	X			4/4/2024	250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	
			X				250mL unpreserved	Lead	

5Apr24 1414 AMB

SP 5 Apr 24 1414

AMB 20.0 870

Original - Analytical Lab
Copy - Client File
Copy - IEA Lab

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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Member ACIL

Workorder: Big Woods Elementary (44839) **Client:** Institute for Environmental Assessment (IEA)

MVTL LABORATORIES, Inc. 1-800-782-3557

Date: 5 Apr 24 Time: 1414 ☐ AM ☒ PM By: SP

Account Name: IEA / BW Account #: –

Bill of Lading #: – Cooler #: –

Temp: 20.0 °C ROI ☐ Ambient ☒ Tracking #: –

TM#: 870 Ice Crystals Present In Sample ☐

Other:

MVTL Courier: Dan FedEx Air ☐ SpeeDee ☐

MVTL Route: Metro Walk-In ☐ UPS Air ☐ Fed Ex Ground ☐

Mail ☐ UPS Ground ☐

Containers Supplied by MVTL: Yes ☒ No ☐ Designate customer supplied containers as "Other" in container size column

Comments:

Number	Containers Size (mL)	Container Type	Preservation	pH
6	(100) (120) (125) (250) (290) (500) (1000) Other [(250) circled]	(G) (P) (AG) (AP) [(P) circled]	NaHSO$_4$ Na$_2$O$_3$S$_2$ NONE HNO$_3$ H$_2$SO$_4$ NaOH HCl SUB* [NONE circled]	<2 >9 >12 N/A Add [N/A circled]
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO$_4$ Na$_2$O$_3$S$_2$ NONE HNO$_3$ H$_2$SO$_4$ NaOH HCl SUB*	<2 >9 >12 N/A Add
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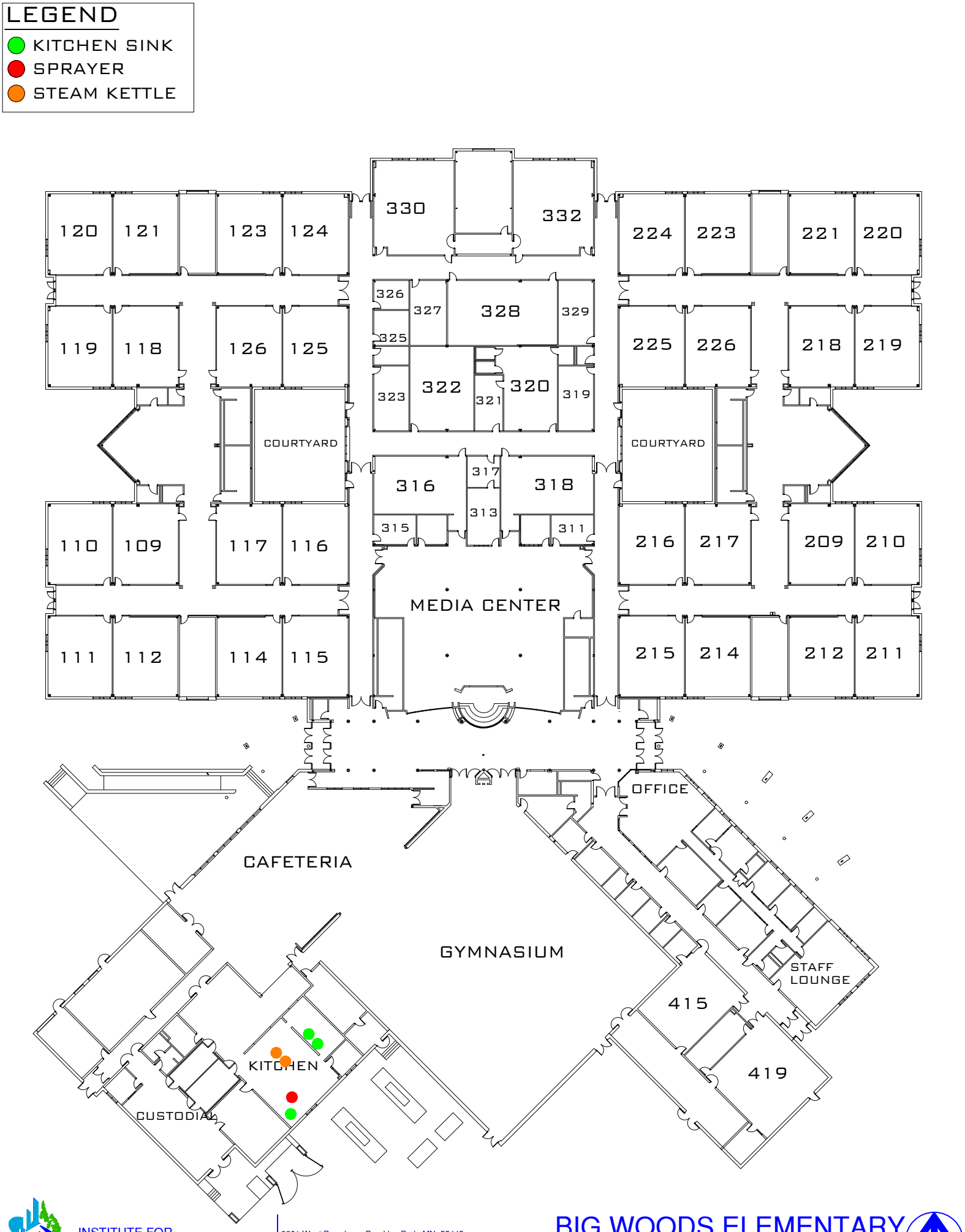
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO$_4$ Na$_2$O$_3$S$_2$ NONE HNO$_3$ H$_2$SO$_4$ NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO$_4$ Na$_2$O$_3$S$_2$ NONE HNO$_3$ H$_2$SO$_4$ NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO$_4$ Na$_2$O$_3$S$_2$ NONE HNO$_3$ H$_2$SO$_4$ NaOH HCl SUB*	
		****!!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!****		
	Low Level Mercury Kit			n/a
	4 oz Jar	Clear Amber	MeOH None	n/a
	2 oz Jar	Clear Amber	MeOH None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H$_3$PO$_4$ H$_2$SO$_4$ None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H$_3$PO$_4$ H$_2$SO$_4$ None	n/a
	Trip Blank Individual Set of 2 Set of 3		n/a	
	Moisture Vial		n/a	
	Manure Bottle		n/a	

*ANY CONTAINER SENT TO A SUBCONTRACT LABORATORY WILL NOT BE CHECKED FOR PRESERVATION!

Report Date: Thursday, April 11, 2024 8:27:09 AM



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

BIG WOODS ELEMENTARY

FIRST LEVEL FLOOR PLAN | ST. MICHAEL-ALBERTVILLE ISD #885
APRIL 2024

MINNESOTA VALLEY TESTING LABORATORIES, INC.
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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Middle School East (44840)
Account #: 2190
Project #: 202310887

Client: Institute for Environmental Assessment (IEA)
PO: 202310887

Emma Squires-Sperling
IEA / Brooklyn Park
9201 W Broadway Suite #600
Brooklyn Park, MN 55445

Certificate of Analysis

Approval

All data reported has been reviewed and approved by:

Dave Smahel, Inorganic Chemistry/Feed Lab Manager New Ulm, MN

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:
MN LAB # 027-015-125ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:
MN LAB # 038-999-267ND W/DW # ND-016

Workorder Comments

All samples were preserved with nitric acid upon receipt at the laboratory.

Report Date: Thursday, April 11, 2024 8:27:09 AM

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www.MVTL.com

Workorder: Middle School East (44840) **Client:** Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID: 44840001 **Date Collected:** 04/04/2024 14:14 **Matrix:** Potable Water
Sample ID: 04042024MSE-1 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen West Wall North Kitchen-SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**2.84**	ug/L	15	EPA 200.8	04/10/2024 17:31	

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Workorder: Middle School East (44840) **Client:** Institute for Environmental Assessment (IEA)

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www.MVTL.com

Workorder: Middle School East (44840) **Client:** Institute for Environmental Assessment (IEA)

1 of 1

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

Client Name	St. Michael-Albertville ISD #885	Building Name	Middle School East	Analytical Lab	MVTL
Contact Name	Emma Squires-Sperling Daniel Holcomb	Project #	202310887	Project Name	2023-2024 STMA LIW
Phone #	763-315-7900	IEA Fax #	763-315-7927	Written Sample Results To	lab@ieasafety.com
Other Information					
Sampled By	Daniel Holcomb	Date 4/4/2024	Time 6:45:00 A.M.	Analyzed By (Company)	Analyst / Date & Time
Reviewed By		Date	Time		
Shipped By	Daniel Holcomb	Date 4/5/2024	Time 9:00 A.M.	Turnaround Time	Notes
Received By		Date	Time	Sample Condition	Temperature

Lab Number	Sample Number	Sample Location	Sample Type: Water	Soil	Other	Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
001	04042024MSE-1	Kitchen West Wall North Kitchen - SNK	X			4/4/2024	250mL unpreserved	Lead	

5 Apr 24 1414 AMB

SP 5 Apr 24 1414

AMB 20.0 870

Original - Analytical Lab
Copy - Client File
Copy - IEA Lab

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Member ACIL

Workorder: Middle School East (44840) **Client:** Institute for Environmental Assessment (IEA)

MVTL LABORATORIES, Inc. 1-800-782-3557

Date: 5 Apr 24 Time: 1414 ☐ AM ☒ PM By: SP

Account Name: IEA / MSE Account #: –

Bill of Lading #: – Cooler #: –

Temp: 20.0 °C ROI ☐ Ambient ☒ Tracking #: –

TM#: 870 Ice Crystals Present In Sample ☐ –

MVTL Courier: Dan Other:

MVTL Route: Metro Walk-In ☐ Mail ☐ UPS Air ☐ UPS Ground ☐ FedEx Air ☐ Fed Ex Ground ☐ SpeeDee ☐

Containers Supplied by MVTL: Yes ☒ No ☐ Designate customer supplied containers as "Other" in container size column

Comments:

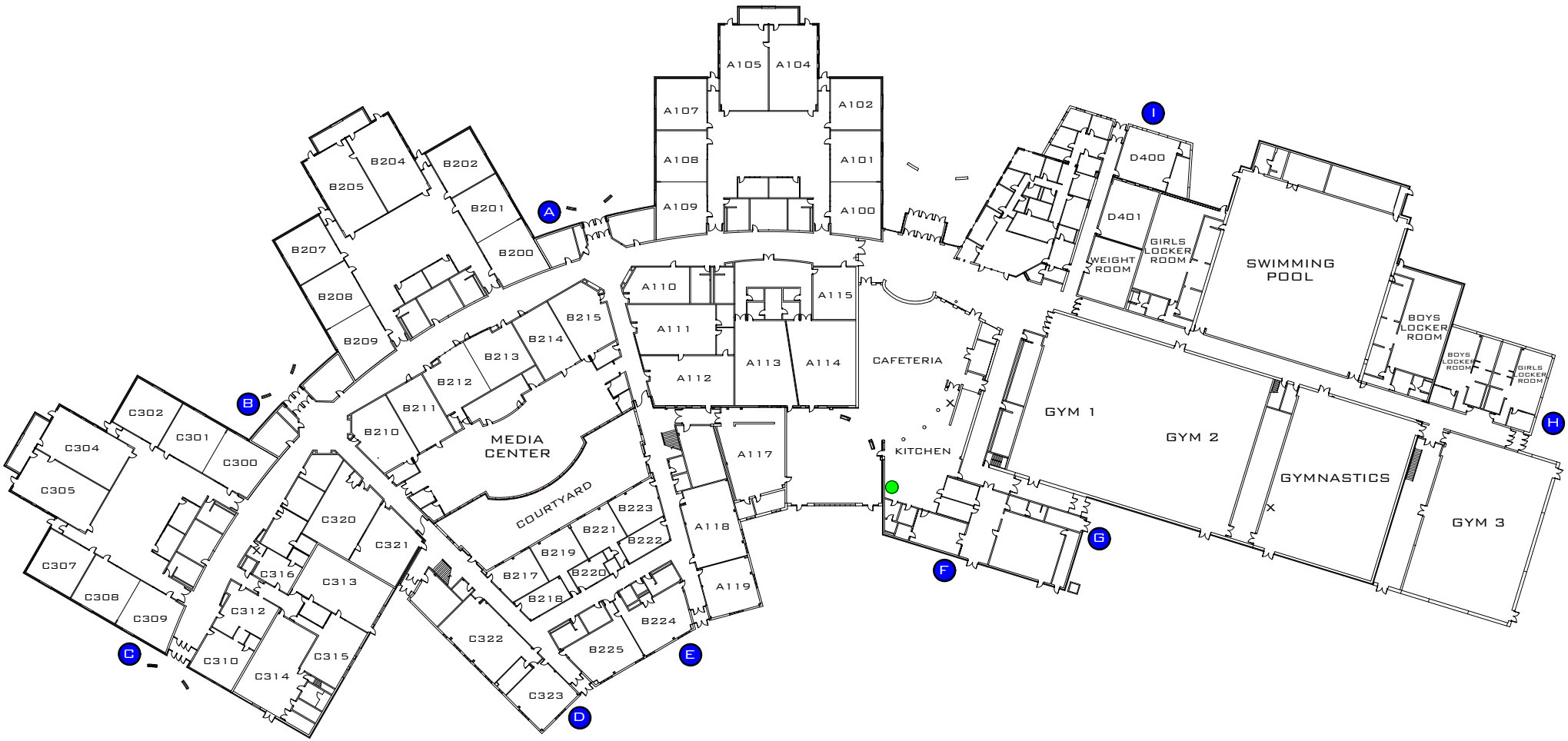
Number	Containers Size (mL)	Container Type	Preservation	pH
1	(100) (120) (125) **(250)** (290) (500) (1000) Other	(G) **(P)** (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ **NONE** HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 **N/A** Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2S_2O_3$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	Low Level Mercury Kit	**!!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!**		
	4 oz Jar	Clear Amber	MeOH None	n/a
	2 oz Jar	Clear Amber	MeOH None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H_3PO_4 H_2SO_4 None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H_3PO_4 H_2SO_4 None	n/a
	Trip Blank Individual Set of 2 Set of 3	n/a		
	Moisture Vial	n/a		
	Manure Bottle	n/a		

*ANY CONTAINER SENT TO A SUBCONTRACT LABORATORY WILL NOT BE CHECKED FOR PRESERVATION!

Report Date: Thursday, April 11, 2024 8:27:09 AM

LEGEND

KITCHEN SINK



INSTITUTE FOR ENVIRONMENTAL ASSESSMENT
9201 West Broadway Brooklyn Park, MN 55445
Tel: 763.315.7900 Toll Free: 800.233.9513
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MIDDLE SCHOOL EAST

FIRST LEVEL FLOOR PLAN

APRIL 2024

N

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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Workorder: Middle School West (44841)
Account #: 2190
Project #: 202310887

Client: Institute for Environmental Assessment (IEA)
PO: 202310887

Emma Squires-Sperling
IEA / Brooklyn Park
9201 W Broadway Suite #600
Brooklyn Park, MN 55445

Certificate of Analysis

Approval

All data reported has been reviewed and approved by:

Dave Smahel, Inorganic Chemistry/Feed Lab Manager New Ulm, MN

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:
MN LAB # 027-015-125ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:
MN LAB # 038-999-267ND W/DW # ND-016

Workorder Comments

All samples were preserved with nitric acid upon receipt at the laboratory.

Report Date: Thursday, April 11, 2024 8:27:09 AM

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Workorder: Middle School West (44841) **Client:** Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID: 44841001 **Date Collected:** 04/04/2024 07:00 **Matrix:** Potable Water
Sample ID: 04042024MSW-1 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen Main Room South SPR

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**8.04**	ug/L	15	EPA 200.8	04/10/2024 17:32	

Lab ID: 44841002 **Date Collected:** 04/04/2024 07:00 **Matrix:** Potable Water
Sample ID: 04042024MSW-2 **Date Received:** 04/05/2024 14:14
Temp @ Receipt (C):
Sample Desc: Kitchen East Room North Kitchen SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	**4.43**	ug/L	15	EPA 200.8	04/10/2024 17:33	

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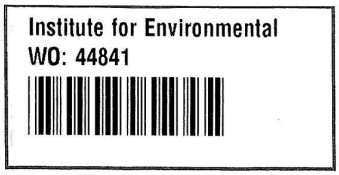
Workorder: Middle School West (44841) **Client:** Institute for Environmental Assessment (IEA)



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Workorder: Middle School West (44841) **Client:** Institute for Environmental Assessment (IEA)

44841

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

Client Name	St. Michael-Albertville ISD #885	Building Name	Middle School West	Analytical Lab	MVTL
Contact Name	Emma Squires-Sperling Daniel Holcomb	Project #	202310887	Project Name	2023-2024 STMA LIW
Phone #	763-315-7900	IEA Fax #	763-315-7927	Written Sample Results To	lab@ieasafety.com
Other Information					
Sampled By	Daniel Holcomb	Date 4/4/2024	Time 7:00 AM	Analyzed By (Company)	Analyst / Date & Time
Reviewed By		Date	Time		
Shipped By	Daniel Holcomb	Date 4/5/2024	Time 9:00 AM	Turnaround Time	Notes
Received By		Date	Time	Sample Condition	Temperature

Lab Number	Sample Number	Sample Location	Sample Type: Water	Sample Type: Soil	Sample Type: Other	Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
1	04042024MSW-1	Kitchen Main Room South - SPR	X			4/4/2024	250mL unpreserved	Lead	
2	04042024MSW-2	Kitchen East Room North Kitchen - SNK	X			4/4/2024	250mL unpreserved	Lead	

5 Apr 24 1414 AMB

SP 5 Apr 24 1414

AMB 20.0 870

Original - Analytical Lab
Copy - Client File
Copy - IEA Lab

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Workorder: Middle School West (44841) **Client:** Institute for Environmental Assessment (IEA)

MVTL LABORATORIES, Inc. 1-800-782-3557

Date: 5 Apr 24 Time: 1414 ☐ AM ☒ PM By: SP

Account Name: IEA / MSW Account #: –

Bill of Lading #: – Cooler #: –

Temp: 20.0 °C ROI ☐ Ambient ☒ Tracking #: –

TM#: 870 Ice Crystals Present In Sample ☐ –

MVTL Courier: Dan Other:

MVTL Route: Metro Walk-In ☐ Mail ☐ UPS Air ☐ UPS Ground ☐ FedEx Air ☐ Fed Ex Ground ☐ SpeeDee ☐

Containers Supplied by MVTL: Yes ☒ No ☐ Designate customer supplied containers as "Other" in container size column

Comments:

Number	Containers Size (mL)	Container Type	Preservation	pH
2	(100) (120) (125) **(250)** (290) (500) (1000) Other	(G) **(P)** (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ **NONE** HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 **N/A** Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	$NaHSO_4$ $Na_2O_3S_2$ NONE HNO_3 H_2SO_4 NaOH HCl SUB*	<2 >9 >12 N/A Add

!!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!

Number	Container	Type	Preservation	pH
	Low Level Mercury Kit		MeOH None	n/a
	4 oz Jar	Clear Amber	MeOH None	n/a
	2 oz Jar	Clear Amber	HCl H_3PO_4 H_2SO_4 None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	HCl H_3PO_4 H_2SO_4 None	n/a
	Vials Individual Set of 2 Set of 3	Clear Amber	n/a	
	Trip Blank Individual Set of 2 Set of 3		n/a	
	Moisture Vial		n/a	
	Manure Bottle			

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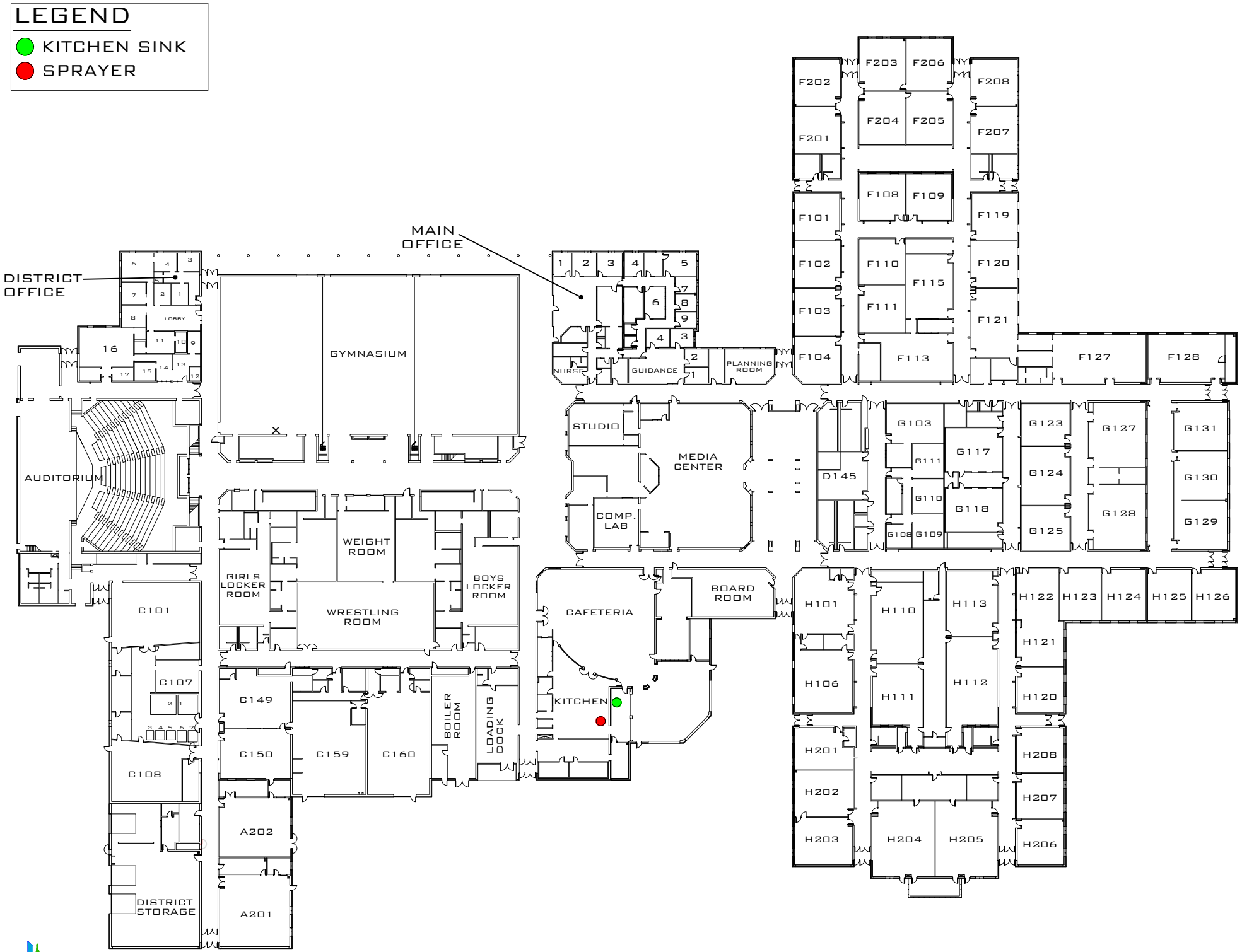
Report Date: Thursday, April 11, 2024 8:27:09 AM



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MIDDLE SCHOOL WEST

FIRST LEVEL FLOOR PLAN | APRIL 2024