

September 30, 2024



Brian Koslofski
Director
Wright Technical Center
1405 3rd Avenue Northeast
Buffalo, MN 55313

**RE: Wright Technical Center
Lead-in-Water First Draw – Post-Remediation Testing
IEA Project #202310794**

Dear Brian Koslofski:

At the request of Wright Technical Center, the Institute for Environmental Assessment, Inc. (IEA) collected three water samples on August 28, 2024, in response to previously elevated sample results for lead analyses.

The purpose of the sampling is to determine if the lead content was reduced after remediation in the sampled locations.

INTRODUCTION

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 *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. The Minnesota Department of Health (MDH) and Minnesota Department of Education (MDE) also recommend taking action according to their guidelines for fixtures with levels of 2 ppb or higher.

Wright Technical Center's action level for lead in water is 2 ppb.

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

METHODOLOGY

First draw samples collected on April 14, 2023, showed three locations had lead content above the facilities action level. The purpose of the sampling is to determine the lead content post remediation efforts and compare to the MDH action level. The facility inspected and installed water filters associated with the elevated fixtures.

IEA collected three 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. The MDH recommends that fixtures are not used, eight to 18 hours prior to sampling fixtures.

The MDH strongly recommends fixtures not included in the water sampling be labeled for their intended use. This could include bathroom taps, hose bibbs, laboratory faucets/sinks, or custodial closet sinks.

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 water analyses results from the initial sampling and the post-remediation testing are listed below in Table 1. Re-tested fixtures had lead content below facilities action level of 2 ppb. The laboratory reports are provided in Appendix A. Laboratory results are reported in micrograms per liter (µg/L), which is equivalent to parts per billion (ppb).

Table 1: Water Testing Results – April 14, 2023, and August 28, 2024

Sample Number	Sampling Location	Fixture Type	Lead Results (ppb)	
			Initial April 14, 2023	Re-Testing August 28, 2024
08282024WTC-07	Room 242	Sink	13.7	<0.5
08282024WTC-15	Room 101	Sink	2.72	<0.5
08282024WTC-17	Student Coat Room 103	Sink	7.5	<0.5

ppb – parts per billion

CONCLUSIONS

Based on the sample results, the remediation methods were successful in reducing the lead content to below the facilities action level of 2 ppb.

RECOMMENDATIONS

Based on the sample results, no further action is required at this time.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from Wright Technical Center 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 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:


Annie Shimkus
EHS Account Manager


Mary Ferran, CSP
EHS Division Manager

AS/khb 09302024

Enc.

Appendix A

Laboratory Testing Report



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: Wright Technical Center (61646)
Account #: 2190
Project #: 202310794

Client: Institute for Environmental Assessment (IEA)
PO: 202310794

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.

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.

Report Date: Thursday, September 5, 2024 11:55:58 AM



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www.MVTL.com



Workorder: Wright Technical Center (61646)

Client: Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID: 61646001 **Date Collected:** 08/28/2024 **Matrix:** Potable Water
Sample ID: 08282024WTC-07 **Date Received:** 08/29/2024 13:20
Temp @ Receipt (C):
Sample Desc: Room 242 SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	<0.5	ug/L	15	EPA 200.8	09/04/2024 17:34	

Lab ID: 61646002 **Date Collected:** 08/28/2024 **Matrix:** Potable Water
Sample ID: 08282024WTC-15 **Date Received:** 08/29/2024 13:20
Temp @ Receipt (C):
Sample Desc: Room 101 SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	<0.5	ug/L	15	EPA 200.8	09/04/2024 17:36	

Lab ID: 61646003 **Date Collected:** 08/28/2024 **Matrix:** Potable Water
Sample ID: 08282024WTC-17 **Date Received:** 08/29/2024 13:20
Temp @ Receipt (C):
Sample Desc: Student Coat Room 103 SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	<0.5	ug/L	15	EPA 200.8	09/04/2024 17:37	

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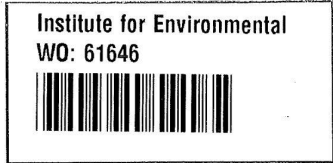
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Workorder: Wright Technical Center (61646)

Client: Institute for Environmental Assessment (IEA)

1 of 1

61646

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55440
763.315.7900 1.800.233.9511 IEA

Client Name Wright Technical Center		Building Name Wright Technical Center		Analytical Lab MVTL					
Contact Name Emma Squires-Sperling		Project # 202310794		Project Name					
Phone #		IEA Fax # 763-315-7927		Written Sample Results To lab@icasafety.com					
Other Information									
Sampled By Annie S.		Date 8/28/2024	Time	Analyzed By <small>(Company)</small>	Analyst	Date & Time			
Shipped By		Date	Time	Turnaround Time	Notes				
Received By		Date	Time	Sample Condition	Temperature				
Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
			Water	Soil	Other				
<i>1</i>	08282024WTC-07	Room 242 SNK	X			8/28/2024		Lead	
<i>2</i>	08282024WTC-15	Room 101 SNK	X			8/28/2024		Lead	
<i>3</i>	08282024WTC-17	Student Coat Room 103 SNK	X			8/28/2024		Lead	
			X					Lead	

h-h-l 29 Aug 24 0930 AWE/ROF
h-h-l 29 Aug 24 1320 2.1
JM 771

ROF DR 29 Aug 24 13:20 2.1C
JM 771

Original - Analytical Lab
Copy - Client File
Copy - IA Lab

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Workorder: Wright Technical Center (61646)

Client: Institute for Environmental Assessment (IEA)



Sample Condition Checklist

Date: 29 Aug 21 Time: 13:00 AM PM

Account Name: Wright Tech Center

By: *Dennis K*

Account #

Cooler #

Bill of Lading #

Tracking #

Temp: 21 °C

ROI

Ambient

TM#: 771

Ice Crystals Present in Sample

Other:

MVTL Courier: Dan

MVTL Route: Metro

Walk-In

UPS Air

FedEx Air

Speedee

Mail

UPS Ground

Fed Ex 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
3	(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*	<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*	<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
!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!				
Low Level Mercury Kit				
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!

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