

### Minnesota Correctional Facility (MCF) Stillwater Sampling Report

#### DRINKING WATER PROTECTION SECTION

### **Summary**

The Minnesota Department of Health (MDH) Drinking Water Protection (DWP) Section conducted sampling at MCF Stillwater at the request of the Minnesota Department of Corrections (DOC) in response to concerns regarding water quality and appearance at the MCF Stillwater community public water system.

Treated water coming into the facility building and at all sampled locations meets federal Safe Drinking Water Act primary standards. Treated water is the water delivered to taps in the facility. Pre-treatment water from the wells had iron and manganese levels above Safe Drinking Water Act secondary standards. Since the iron and manganese levels in treated water were below the standards for 78 out of the 79 treated water samples, the results show that the water treatment is successfully removing iron and manganese from the well water. One treated water sample had manganese levels (52  $\mu$ g/L) slightly above the secondary standard (50  $\mu$ g/L).

However, staff observed discolored water at some locations during sampling, primarily at hot water taps, which can indicate degradation of water quality in the building.

#### MDH recommends that the DOC:

- Inform incarcerated persons and staff about these sampling results and instruct them to use only cold water for consumption, which is recommended at all public water systems.
- Take several immediate actions to address water quality concerns, including: cleaning fixtures and aerators; conducting systematic, facility-wide flushing; having a licensed plumber conduct an inspection; and implementing any recommended actions from the inspection.
- Develop and follow a written water management plan to maintain water quality within the facility.

### Sampling methodology

MDH staff collected samples from the system on September 11, 2023. MDH collected water samples from 81 sites across the prison, including cells on every block, common areas, staff areas, the two wells serving the water system, and the entry point, where treated drinking water enters the distribution system. Nine staff from MDH collected samples, escorted by DOC tactical and facility staff, the system's water operator, and DOC Ombudsman staff.

MDH tested the water to confirm that water was safe for consumption and met Safe Drinking Water Act standards. Following Safe Drinking Water Act <u>sample collection procedures</u> and protocols, samples were collected from cold water taps, as cold water is the source recommended for consumption at all public water systems.

#### MCF STILLWATER SAMPLING REPORT

Samples were analyzed for the following contaminants that have primary Safe Drinking Water Act standards to protect human health: lead, copper, total coliform, chlorine, synthetic organic compounds, and volatile organic compounds.

Samples were analyzed for the following contaminants with secondary standards related to taste, color, or odor: iron, manganese, and total suspended solids. Iron and total suspended solids do not present a health risk but can be used as indicators of water quality. MDH has a health-based guidance value for <u>manganese in drinking water</u>. The secondary standard for manganese is lower than the health-based value.

Samples were transported to the MDH Public Health Laboratory, which analyzed the water quality samples to evaluate the presence and levels of these contaminants in drinking water.

### Summary of water quality results

All water quality results for treated water met primary Safe Drinking Water Act standards. Treated water is the water delivered to taps in the facility. Pre-treatment water from the wells had iron and manganese levels above Safe Drinking Water Act secondary standards. Since the iron and manganese levels in treated water were below the standards for 78 out of the 79 treated water samples, the results show that the water treatment is successfully removing iron and manganese from the well water. One treated water sample had manganese levels (52  $\mu$ g/L) slightly above the secondary standard (50  $\mu$ g/L).

Past required monitoring at the facility under the Safe Drinking Water Act has also met water quality standards. Past annual water quality reports can be obtained either from the public water system or from their online <u>Consumer Confidence Report</u>.

### Visual and other observations

MDH staff noted the water appearance during sampling. Water was generally very clear in all samples collected. Staff did observe a few instances where discolored water was observed while flushing the tap with the aerators (screens) off, which could be attributed to increased scouring without aerators present. In these instances, cold water became clear after a short period. However, in some locations, hot water remained discolored following flushing.

The presence of discolored water, particularly in hot water in an older facility, is not uncommon. It indicates that enhanced building water management and increased plumbing maintenance or replacement is needed.

Staff also observed visible scale on aerators, aerator attachments, and fixtures. Scale is the build-up of minerals from water on fixtures. There was visible iron staining on some sinks. Staff found that certain fixtures were not consistently working.

### **Recommendations**

Even though water quality coming into MCF-Stillwater meets Safe Drinking Water Act standards, water quality can degrade within buildings due to processes like corrosion or

#### MCF STILLWATER SAMPLING REPORT

accumulation of biofilm. These can be impacted by factors including building water usage and plumbing configuration. Building owners need to actively manage water quality within their buildings on an ongoing basis to avoid degradation of water quality, including corrosion, taste, color, or odor issues. This can be challenging for large, older facilities with irregular water flows and therefore needs to be guided by a formal water management plan.

Creating a robust water management plan for the building can help clear accumulated materials from the water system, reduce impacts from corrosion, prevent harmful bacteria growth, improve water appearance, and allocate resources effectively.

#### What actions does MDH recommend?

MDH recommends that the public water system take the following actions:

- 1. **Inform incarcerated persons and staff** about the sampling results and instruct them to use only cold water for consumption, which is recommended at all public water systems.
- 2. **Clean and maintain fixtures.** Faucet aerators should be periodically removed, cleaned, and sanitized. Fixtures that are broken should be fixed or evaluated for permanent physical removal.
- 3. **Conduct systematic, building-wide flushing.** Moving water through the plumbing system. This helps remove build-up of naturally occurring debris and sediment. See <u>Flushing Plans</u> for example flushing plans for large buildings.
- 4. Have the plumbing inspected by a licensed plumbing contractor. Include a focus on the hot water supply elements. Implement any actions, repairs, or replacements recommended in the inspection. Develop plans for future, ongoing maintenance.
- 5. **Develop and follow a written water management plan** to maintain water quality within the building. The Center for Disease Control has a toolkit to help building owners create water management plans at <u>Controlling Legionella in Potable Water Systems.</u>

Minnesota Department of Health Drinking Water Protection Section 625 Robert Street P.O. Box 64975 Saint Paul, MN 55164-0975 651-201-4700 health.drinkingwater@state.mn.us www.health.state.mn.us

#### 9/29/2023R

To view the revisions to the original report, see the <u>errata sheet (PDF)</u>. To obtain this information in a different format, call: 651-201-4700.

### Appendix I. Summary of water quality results compared to Safe Drinking Water Act standards

The following summary compares water quality results to federal Safe Drinking Water Act standards. See U.S. Environmental Protection Agency webpages on <u>National Primary</u> <u>Drinking Water Regulations</u> and <u>Secondary Drinking Water Standards</u>: <u>Guidance for Nuisance Chemicals</u> for the complete lists of federal standards.

Contaminant	Where sampled?	Type of Safe Drinking Water Act standard	Standard for drinking water	Treated water results meet standards?	About the contaminant
Lead <sup>1</sup>	81 sites throughout facility	Primary (health-based)	15 μg/L²	Yes	Can be used to indicate corrosion of plumbing systems
Copper <sup>1</sup>	81 sites throughout facility	Primary (health-based)	1300 μg/L	Yes	Can be used to indicate corrosion of plumbing systems
Total coliform	81 sites throughout facility	Primary (health-based)	No presence	Yes	Not a health threat in itself, but is used to indicate whether other potentially harmful bacteria may be present
Total chlorine	64 sites throughout facility	Primary (health-based)	4 mg/L <sup>3</sup>	Yes	Water additive used to control microbes
Synthetic organic compounds	Sampled at both wells and entry point to water distribution system	Primary (health-based)	Varies by each type	Yes	Carbon-based chemicals such as pesticides and industrial chemicals
Volatile organic compounds	Sampled at both wells and entry point to water distribution system	Primary (health-based)	Varies by each type	Yes	Carbon-based chemicals such as pesticides and industrial chemicals
Iron	81 sites throughout facility	Secondary (aesthetic)	300 μg/L	Yes	Can give rusty color and metallic taste to water and stain fixtures
Manganese <sup>4</sup>	81 sites throughout facility	Secondary (aesthetic)	50 μg/L	No <sup>5</sup>	Can give black to brown color and metallic taste to water and stain fixtures
Total suspended solids	48 sites throughout facility	Not regulated	Not applicable	Not applicable	Can indicate minerals or other deposits in drinking water

<sup>&</sup>lt;sup>1</sup> As samples were collected throughout the day, they were not necessarily "first draw" as would be done for Safe Drinking Water Act compliance determination.

 $<sup>^2\,1</sup>$  microgram per Liter (µg/L) is equivalent to 1 part per billion.

 $<sup>^{3}</sup>$  1 milligram per Liter (mg/L) is equivalent to 1 part per million.

<sup>&</sup>lt;sup>4</sup> MDH has health-based guidance for manganese: 100 μg/L for infants drinking water or formula made with tap water; and 300 μg/L for people ages one year old and above.

<sup>&</sup>lt;sup>5</sup> One sample had a result of 52 μg/L, which is above the secondary standard but below health-based guidance. All other treated water results met the secondary standard.

### **Appendix II. Analytical results from Public Health Laboratory**

For more information about the Public Health Laboratory analyses, download the <u>sampling and analysis guide</u> and the <u>sample acceptance policy</u>.



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0408

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

httm://www.r.haalth.mm.va/diva/mh1/anvinamaanta1

## Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

Collected By: Brenda

Program Name: Special Investigation

City: None

Collector ID: None

Generated: 09/18/23 16:55

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Seg 1101	2310408-01	Drinking Water	09/11/23 11:14	09/11/23 13:45	4.1
Seg 1309	2310408-02	Drinking Water	09/11/23 11:31	09/11/23 13:45	4.1
Seg 1501	2310408-03	Drinking Water	09/11/23 11:37	09/11/23 13:45	4.1
Seg 1706	2310408-04	Drinking Water	09/11/23 11:45	09/11/23 13:45	4.1
Seg 1802	2310408-05	Drinking Water	09/11/23 11:51	09/11/23 13:45	4.1
Seg 2212	2310408-06	Drinking Water	09/11/23 11:59	09/11/23 13:45	4.1
Seg 2411	2310408-07	Drinking Water	09/11/23 12:05	09/11/23 13:45	4.1
Seg 2606	2310408-08	Drinking Water	09/11/23 12:12	09/11/23 13:45	4.1
Seg 156 Jan Closet	2310408-09	Drinking Water	09/11/23 12:16	09/11/23 13:45	4.1

FINAL REPORT Report ID: 09182023165615

Authorized by:

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Stefan Saconi

	-			\ C		#	# Containers collected	ted	
	STANKE OF THE ST	10000		Rush tot 1)		25	BACTI	Metals	Т
Line Gulldus Location ID	Guildus /floor/Cell	Collection Date	Collection Time	Collector Name Total	Sample Type	1L HDPE unpreserved	150mL Sterial, Na2S2O3	250ml HDPE, HNO3 Ton / Mar	
1 Sen 1101		9/11/13	11:14 dim	70 7/ BWST'O.	DW	-	_	_	F
2 Son 13	1309		11:31 am	0.20 mg/LCL	DW		_	-	7
3 Sen	1051		11.37 am	0,79 male CL	DW				K
76	1706		11:45 am	0.80 mg/L CL	DW				7
5 Sed 1	802		11:51 am	0,13 mg/1 CL	DW			_	S
	2212		11!59 am	3	DW	_	_		3
	2411		12:05 pm	0.99 mg/LCL					7
	7606	9	12112 pm				-	_	p
e Seu	156 chart	7	12:16 pm	,	DW	4		-1-PSCU	1
10					DW				
11					DW				
12					DW				
13					DW		111		14
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	Relinquished by/Affilaition		Date Time	Accepted by/Affiliation			Date	Time	
e 3 of 23	Lusson /	MP HOM	17/23 12:21	( munt	J.		ca-11-60	5261/cm	- 1
	The	11							



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

### Data Entry Worksheet



22	Parcel Information	Date & time of receipt:	5EP 11'23 13:4
Courier: Walk-in			
Client drop-off:  Refrigerator (1) (2)	186) (207) ( ) 🗆 Free	zer (185) ( ) 🗆 Unrefr	
Parcel: ☑ Plastic cooler ☐ Styrofoar ☐ None ☐ Other			· □ Plastic can
Custody seals present: No 🗆 Yes			
Custody seal #		Evidentiary samples ident	tified: 🖺 No 🗆 Yes
	Packaging & Temperature	Information	
Packing material:   Bubble wrap	Styrofoam ☐ Paper 🗗	None 🗆 Other	
Cooling material:  Wet ice (loose)	☐ Wet ice pack #( ) ☐	Gel pack #( ) ☐ Dry ice	e 🗆 None
☐ Refrigerator ( 1 ) (186) (207) ( )	☐ Freezer (185) ( )	Other	
Condition of cooling material:   Solid			
Representative sample temperature:	°C IR thermom	eter used: 1º9	
Evidence of freezing: Vac Mala			
Evidence of freezing:   Yes   No			
itials of person receiving parcel:	<u>,                                      </u>		
itials of person receiving parcel:	stody, Sample Container,	& Analysis Information	
Chain of Custody received: Yes	ustody, Sample Container,		
itials of person receiving parcel:Chain of Cu	Istody, Sample Container,  No  Civil   Criminal   Biolo		r □ Unknown
Chain of Custody received: A Yes Chain of Custody type:	Istody, Sample Container, No Civil □ Criminal □ Biolo dy: ☑ Yes □ No	gical Priority/Emergency	/ □ Unknown
Chain of Custody received: A Yes Chain of Custody type: Standard Chain of Custody type: All containers unique to Chain of Custody	Istody, Sample Container, No Civil □ Criminal □ Biolo dy: ☑ Yes □ No ion date: ☑ Yes □ No □	gical Priority/Emergency	∕ □ Unknown
Chain of Custody received: A Yes All containers received intact:	istody, Sample Container,  No  Civil	gical Priority/Emergency	/ □ Unknown
Chain of Custody received: A Yes Chain of Custody type: Standard Chain of Custody type: All containers unique to Chain of Custody Chain of Chain of Custody Chain of Chain of Custody Chain of	istody, Sample Container, No Civil □ Criminal □ Biolo dy: ☑ Yes □ No ion date: ☑ Yes □ No □ □ No sion: ☑ Yes □ No	gical Priority/Emergency Unknown	∕ □ Unknown
Chain of Custody received: A Yes All containers received intact: Yes All containers received intact: Yes All containers received per COC submissions.	istody, Sample Container,  No  Civil	gical Priority/Emergency Unknown  Unknown	√ □ Unknown
Chain of Custody received: A Yes Chain of Custody type: Standard Chain of Chain of Chain of Custody type: Standard Chain of Chain of Chain of Chain of Chain o	istody, Sample Container,  No  Civil	gical Priority/Emergency Unknown  Unknown  Unknown	

ENV ESR FQRM 1001 version 2.0

## Final Report Case Narrative

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: None

Collected by: Brenda
Collector ID: None

Generated: 09/18/2023 16:55

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023165615

Authorized by:

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Stefan Saismi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 1101

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-01

Collect Date: 09/11/23

Collect Time: 11:14

Matrix: Drinking Water

Field Residual Chlorine Result: 0.25

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	1.2	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:37	SM 2540 D 22nd ED
<b>Microbiological Paramete</b>	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	61.4	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 12:56	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:15	EPA 200.7
Manganese	Z-01b	20.1	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 12:56	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 12:56	EPA 200.8

FINAL REPORT

Report ID: 09182023165615

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Stefan Sarone

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 1309

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:55

MDH Sample Number: 2310408-02

Collect Date: 09/11/23

Collect Time: 11:31 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.20

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	195	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 12:59	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:21	EPA 200.7
Manganese	Z-01b	21.2	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 12:59	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 12:59	EPA 200.8

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 1501

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-03

Collect Date: 09/11/23

Collect Time: 11:37 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.79

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	57.4	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:02	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:22	EPA 200.7
Manganese	Z-01b	21.3	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:02	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:02	EPA 200.8

FINAL REPORT Report ID: 09182023165615

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 1706

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:55

MDH Sample Number: 2310408-04

Collect Date: 09/11/23

Collect Time: 11:45
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.80

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

Prepared

Matrix: Drinking Water

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	166	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:11	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:24	EPA 200.7
Manganese	Z-01b	20.9	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:11	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:11	EPA 200.8

FINAL REPORT Report ID: 09182023165615

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 1802

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:55

MDH Sample Number: 2310408-05

Collect Date: 09/11/23

Collect Time: 11:51 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.13

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	124	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:14	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:26	EPA 200.7
Manganese	Z-01b	18.9	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:14	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:14	EPA 200.8

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 2212

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:55

MDH Sample Number: 2310408-06

Collect Date: 09/11/23

Collect Time: 11:59 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.47

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Sampling Point: None QA Type: None

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:37	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	87.7	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:17	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:28	EPA 200.7
Manganese	Z-01b	20.0	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:17	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:17	EPA 200.8

FINAL REPORT

Report ID: 09182023165615

Authorized by:

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 2411

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Coliform, Total

Program Name: Special Investi

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

/100mL

Batch

B3I1006

Prepared

09/11/23 15:42

Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-07

Collect Date: 09/11/23

Collect Time: 12:05
Matrix: Drinking Water

Reporting

Result

Absent

Field Residual Chlorine Result: 0.99

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

09/12/23 10:17 SM 9223 B 22nd

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Metal Parameters								ED
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	123	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:20	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:30	EPA 200.7
Manganese	Z-01b	18.1	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:20	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:20	EPA 200.8

FINAL REPORT Report ID: 09182023165615

Authorized by:

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Seg 2606

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:55

MDH Sample Number: 2310408-08

Collect Date: 09/11/23

Collect Time: 12:12 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 1.48

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total	.,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	77.4	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:23	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:31	EPA 200.7
Manganese	Z-01b	25.3	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:23	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:23	EPA 200.8

FINAL REPORT Report ID: 09182023165615

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#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Seg 156 Jan Closet

Collected By: Brenda

Field Name: None

QA Type: None

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-09

Collect Date: 09/11/23

Collect Time: 12:16
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01a	<	20.0	ug/L	B3I1098	09/13/23 16:55	09/14/23 15:02	EPA 200.7
Manganese	Z-01a	23.6	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:22	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:22	EPA 200.8

FINAL REPORT Report ID: 09182023165615

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#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Seg 156 Jan Closet

Collected By: Brenda

Field Name: None

QA Type: None

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-09RE1

Collect Date: 09/11/23

Collect Time: 12:16 Matrix: Drinking Water Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01a	340	10.0	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:12	EPA 200.8	_

FINAL REPORT Report ID: 09182023165615

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## Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:55

**Batch Summary** 

Samples in Batch: B3I1006 - Microbiology Prep

2310408-01 2310408-02

2310408-03

2310408-04

2310408-05

2310408-06

2310408-07

Samples in Batch: B3I1033 - EPA 200 Series Prep

23I0408-01 23I0408-08

2310408-08

2310408-02

2310408-03

2310408-04

2310408-05

2310408-06

2310408-07

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310408-09

23I0408-09RE1

Samples in Batch: B3I1075 - General Chemistry Prep

2310408-01

2310408-06

Samples in Batch: B3I1091 - Metals Prep

23I0408-01 23I0408-08 2310408-02

2310408-03

2310408-04

2310408-05

2310408-06

2310408-07

Samples in Batch: B3I1098 - Metals Prep

2310408-09

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None Generated: 09/18/23 16:55

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1075 - General	Chemistry Prep		·							
Blank (B3I1075-BLK1)				Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	<b>4.</b>	<	1.0	mg/L						
Duplicate (B3I1075-DUP1)		Source: 2310	408-01	Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Z-01	<	1.0	mg/L		1.200				5
Duplicate (B3I1075-DUP2)		Source: 2310	408-06	Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Z-01	1.200	1.0	mg/L		<				5
Reference (B3I1075-SRM1)				Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	<del>- (4)</del>	46.00	2.5	mg/L	44.8		103	79.7-107		

FINAL REPORT

Report ID: 09182023165615

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None

Generated: 09/18/23 16:55

#### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1033-BLK1)				Prepare	d: 09/12/23	10:59 Anal	yzed: 09/13/2	3 12:50		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1033-BS1)				Prepare	ed: 09/12/23	10:59 Anal	yzed: 09/13/2	3 12:53		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	<u> </u>	50.4		ug/L	50		101	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		50.0		ug/L	50		100	85-115		
Duplicate (B3I1033-DUP1)		Source: 23104	108-03	Prepare	ed: 09/12/23	10:59 Anal	yzed: 09/13/2	3 13:05		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	,	58.4	10.0	ug/L		57.4			2	20
Lead		<	1.00	ug/L		<				20
Manganese		21.5	10.0	ug/L		21.3			8.0	20
Duplicate (B3I1033-DUP2)		Source: 23104	110-03	Prepare	ed: 09/12/23	10:59 Anal	yzed: 09/13/2	3 13:52		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		3.37	10.0	ug/L		<			0.6	20
Lead		<	1.00	ug/L		<				20
Manganese		25.2	10.0	ug/L		25.3			0.4	20
Matrix Spike (B3l1033-MS1)		Source: 23104	108-03	Prepare	ed: 09/12/23	10:59 Anal	yzed: 09/13/2	3 13:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	(-)	105		ug/L	50		95	70-130		
Lead		47.8		ug/L	50		96	70-130		
Manganese		70.5		ug/L	50		98	70-130		

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#### Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None Generated: 09/18/23 16:55

#### Results were produced by Minnesota Department of Health, except where noted.

Matrix Spike (B3I1033-MS2)		Source: 2310	0410-03	Prepare	d: 09/12/23	10:59 Anal	yzed: 09/13/2	3 13:55		
A L. d.	Analyte	D	Reporting		Spike	Source			DDD	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limi
Copper		52.2		ug/L	50		98	70-130		
Lead		47.7		ug/L	50		95	70-130		
Manganese		75.2		ug/L	50		100	70-130		
Batch B3I1065 - EPA 200	Series Prep									
Blank (B3I1065-BLK1)				Prepare	ed: 09/13/23	8 08:48 Anal	yzed: 09/13/2	3 17:16		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	V1	<	10.0	ug/L	Level	IXESIII				
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
Blank (B3I1065-BLK2)				Prepare	ed: 09/13/23	3 08:48 Anal	yzed: 09/15/2	3 14:06		
	Analyte		Reporting	-	Spike	Source				RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limi
Copper		<	10.0	ug/L						
Lead		<	1.00	ug/L						
LCS (B3I1065-BS1)				Prepare	ed: 09/13/23	8 08:48 Anal	yzed: 09/13/2	3 17:19		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	V1	51.0		ug/L	50		102	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		51.1		ug/L	50		102	85-115		
LCS (B3I1065-BS2)				Prepare	ed: 09/13/23	3 08:48 Anal	yzed: 09/15/2	3 14:09		
Analyta	Analyte	Result	Reporting	Units	Spike	Source	%REC	%REC Limits	RPD	RPD
Analyte	Qualifier(s)		Limit	ug/L	Level 50	Result	98		KFD	Limi
Copper		49.0		ug/L ug/L	50		98 97	85-115 85-115		
Lead		48.7		ug/L	50		97	85-115		
Duplicate (B3I1065-DUP1)										

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#### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collected By: Brenda Collector ID: None

Generated: 09/18/23 16:55

#### Results were produced by Minnesota Department of Health, except where noted.

Duplicate (B3I1065-DUP1)		Source: 2310	409-03	Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:28		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Lead	***************************************	<	1.00	ug/L		<				20
Manganese		49.2	10.0	ug/L		48.1			2	20
Duplicate (B3I1065-DUP2)		Source: 2310	427-06	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	3 18:03		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	3(3-3-11)	304	10.0	ug/L		302			0.7	20
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	3 14:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3I1065-MS1)		Source: 2310	409-03	Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:31		
										RPD
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limi
Analyte Lead	Analyte Qualifier(s)	Result 49.4	Reporting Limit	Units ug/L	Spike Level 50	Source Result	%REC 99	%REC Limits 70-130	RPD	Limi
	•				Level				RPD	Limi
Lead	•	49.4	Limit	ug/L ug/L	50 50	Result	99	70-130 70-130	RPD	Limi
Lead Manganese	Qualifier(s)  Analyte	49.4 98.0	Limit 427-06 Reporting	ug/L ug/L	50 50 50 ed: <b>09/13/23</b> Spike	Result  08:48 Anal  Source	99 100	70-130 70-130	RPD RPD	RPD
Lead Manganese Matrix Spike (B3I1065-MS2) Analyte	Qualifier(s)	49.4 98.0 Source: 2310	Limit 427-06	ug/L ug/L Prepare	50 50 50 ed: <b>09/13/23</b>	Result	99 100 yzed: <b>09/13/2</b>	70-130 70-130 3 <b>18:06</b>		
Lead Manganese  Matrix Spike (B3l1065-MS2)  Analyte  Copper	Qualifier(s)  Analyte	49.4 98.0 Source: 2310 Result	Limit 427-06 Reporting	ug/L ug/L <b>Prepare</b> Units	50 50 50 ed: <b>09/13/23</b> Spike	Result  08:48 Anal  Source	99 100 <b>yzed: 09/13/2</b> %REC	70-130 70-130 3 <b>18:06</b> %REC Limits		RPD
Lead Manganese Matrix Spike (B3I1065-MS2) Analyte	Qualifier(s)  Analyte	49.4 98.0 Source: 2310 Result 348	Limit 427-06 Reporting	ug/L ug/L  Prepare Units ug/L	50 50 50 sd: <b>09/13/23</b> Spike Level 50	Result  08:48 Anal  Source	99 100 <b>yzed: 09/13/2</b> %REC 93	70-130 70-130 3 18:06 %REC Limits 70-130		RPD
Lead Manganese Matrix Spike (B3l1065-MS2) Analyte Copper Lead	Qualifier(s)  Analyte	49.4 98.0 Source: 2310 Result 348 53.1	Limit  427-06  Reporting Limit	ug/L ug/L  Prepare Units ug/L ug/L ug/L	50 50 50 50 6d: 09/13/23 Spike Level 50 50	Result  08:48 Anal  Source  Result	99 100 yzed: 09/13/2 %REC 93 106 99	70-130 70-130 3 18:06 %REC Limits 70-130 70-130 70-130		RPD
Lead Manganese  Matrix Spike (B3I1065-MS2)  Analyte Copper Lead Manganese	Qualifier(s)  Analyte Qualifier(s)  Analyte	49.4 98.0 Source: 2310 Result 348 53.1 62.6	1 imit  427-06  Reporting Limit  409-03RE1  Reporting	ug/L ug/L  Prepare Units ug/L ug/L ug/L	50 50 50 50 6d: 09/13/23 Spike Level 50 50 50 50 Spike: 09/15/23 Spike	Result  08:48 Anal Source Result	99 100 <b>yzed: 09/13/2</b> %REC 93 106	70-130 70-130 3 18:06 %REC Limits 70-130 70-130 70-130		RPD Limi
Lead Manganese  Matrix Spike (B3I1065-MS2)  Analyte Copper Lead Manganese  Matrix Spike (B3I1065-MS3)	Qualifier(s)  Analyte  Qualifier(s)	49.4 98.0 Source: 2310 Result 348 53.1 62.6 Source: 2310	Limit  427-06 Reporting Limit	ug/L ug/L  Prepare Units ug/L ug/L ug/L	50 50 50 sd: 09/13/23 Spike Level 50 50 50	Result  08:48 Anal Source Result	99 100 yzed: 09/13/2 %REC 93 106 99 yzed: 09/15/2	70-130 70-130 3 18:06 %REC Limits 70-130 70-130 70-130	RPD	RPC Limi

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda Collector ID: None City: None

Generated: 09/18/23 16:55

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200 S	Series Prep					· ·				
Batch B3I1091 - Metals Pre	ep									
Blank (B3l1091-BLK1)				Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:11		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						
LCS (B3I1091-BS1)				Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	()	996		ug/L	1,000		100	85-115		
Duplicate (B3I1091-DUP1)		Source: 2310	408-01	Prepare	d: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:16		
Analyte	Analyte Qualifier(s)	Result	Reporting	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit
Iron	Qualifier(S)	<	20.0	ug/L		<				20
Duplicate (B3I1091-DUP2)		Source: 2310	409-03	Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( )	<	20.0	ug/L		<				20
Matrix Spike (B3I1091-MS1)		Source: 2310	408-01	Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	908		ug/L	1,000		90	85-115		
Matrix Spike (B3I1091-MS2)		Source: 2310	409-03	Prepare	d: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:45		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	<del>(1)</del>	946		ug/L	1,000		94	85-115		
Batch B3I1098 - Metals Pre	ep									
Blank (B3I1098-BLK1)				Prepare	ed: 09/13/23	16:55 Anal	yzed: 09/14/2	23 14:58		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
FINAL REPORT								Report ID:	0918202	231656 <sup>.</sup>
								пероп ІВ.	3010202	5 1000

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None

Generated: 09/18/23 16:55

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1098 - Metals Pi	rep									
Blank (B3I1098-BLK1)				Prepare	ed: 09/13/23	16:55 Anal	yzed: 09/14/2	3 14:58		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	, ,	<	20.0	ug/L						
LCS (B3I1098-BS1)				Prepare	ed: 09/13/23	16:55 Anal	yzed: 09/14/2	3 15:00		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	973		ug/L	1,000		97	85-115		
Duplicate (B3I1098-DUP1)		Source: 2310	)408-09	Prepare	ed: 09/13/23	16:55 Anal	yzed: 09/14/2	3 15:04		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	6.76	20.0	ug/L		<			6	20
Matrix Spike (B3I1098-MS1)		Source: 2310	)408-09	Prepare	ed: 09/13/23	16:55 Anal	yzed: 09/14/2	3 15:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		969		ug/L	1,000		96	85-115		

FINAL REPORT

Report ID: 09182023165615

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#### Final Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01b Sample was collected in a 250 mL container.

Z-01a Sample was collected in a 1 L container.

Z-01 Filter contains <2.5 mg of residue.

V1 Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT

Authorized by:

Report ID: 09182023165615

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Stefan Saroni



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0409

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

httm://www.r.haalth.mm.va/diva/mh1/anvinamaanta1

## Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: Stillwater

Collector ID: None

Collected By: Lucas Martin

Program Name: Special Investigation

Generated: 09/18/23 16:53

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Well #3	2310409-01	Drinking Water	09/11/23 11:10	09/11/23 13:45	13.9
Well #2	2310409-02	Drinking Water	09/11/23 11:20	09/11/23 13:45	13.9
Treatment Plant	2310409-03	Drinking Water	09/11/23 11:25	09/11/23 13:45	13.9
Outside Warehouse	2310409-04	Drinking Water	09/11/23 11:50	09/11/23 13:45	13.9
MSU Kitchen	2310409-05	Drinking Water	09/11/23 12:15	09/11/23 13:45	13.9
MSU upper level	2310409-06	Drinking Water	09/11/23 12:30	09/11/23 13:45	13.9
MSU lower level	2310409-07	Drinking Water	09/11/23 12:40	09/11/23 13:45	13.9

FINAL REPORT Report ID: 09182023165355

Authorized by:

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5 ks1 /2	64.11.223		MUT	W W	11/23 1:07pm	The same of the sa	the how	
Time	Date			Accepted by//Affiliation	Date Time		Relinquished by/Affilaition	
			DW					20
	23 0409		DW				e e	19
			DW					18
Ī			DW				7	17
			DW				01	16
			DW				5	15
			DW				4	14
			DW				ω	13
			DW				2	12
			DW				1	11
			DW				0	10
			DW				9	9
	3		DW				00	~
/	/	42	DW	F	12:40pm	7	7 MSV lower leve)	special control
	1	2	DW		12:30 pm		6 MSU Upper level	_
)	_		DW		12:15 pm		5 MSU KitCHO	
	_		DW		11:50 am		4 Dutside workhouse	1421
	)	2	DW		11,25 am		3 Treatment Plant	192300
/	_	,	DW		11:20 an	`\\	2 hell #2	1927/28
/	/	/	DW	Lucas martin	11:10 an	9/11/23	1 (well) #3	
250ml HDPE, HNO3	150mL Sterial, Na2S2O3	1L HDPE unpreserved	Sample Type	Collector Name	Collection Time Co	Collection Date		Line #
red	# containers collected	#						

dicty halve for on 30 sec

iven lome In 040 650 MSU UPPER IVI 0.38 29.0 MSU KHORN hh'0 h9'0 outside bourbouse (100 990 9'Z 8'2 Free CI 12/19/1 Page 4 of 23



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

### Data Entry Worksheet



ii .	Parcel Information	Date & time of receipt:	SEP 11'23 13:45
Courier: ₩alk-in ☐ FedEx ☐.Spee			
Client drop-off: ☐ Refrigerator (1) (18  Parcel: ☐ Plastic cooler ☐ Styrofoam/	cardboard cooler 🔲 C	ardboard box 🗆 Envelope	
□ None □ Other □			
Custody seals present: No ☐ Yes, It			
Custody seal #		Evidentiary samples iden	tified: No 🗆 Yes
Pa	ckaging & Temperature	Information	
Packing material: ☐ Bubble wrap ☐ St	tyrofoam 🗆 Paper 🖎	None 🗆 Other	
Cooling material:  Wet ice (loose)	☐ Wet ice pack #( ) □	Gel pack #( ) □ Dry ice	e 🗆 None
☐ Refrigerator (1) (186) (207) ( )	☐ Freezer (185) ( )	□ Other	
Condition of cooling material: $\square$ Solid	Partially frozen L	iquid; Liquid temperature: _	°C □ N/A
Representative sample temperature:	13.9 °C IR thermom	eter used:	Y
Evidence of freezing: ☐ Yes ☐ No			
nitials of person receiving parcel:		33	
Chain of Cust	ody, Sample Container,	& Analysis Information	****
Chain of Custody received:   ✓Yes □ No			
Chain of Custody type: ☐ Standard ☐ C	ivil 🗆 Criminal 🗆 Biolo	gical Priority/Emergency	√ □ Unknown
All containers unique to Chain of Custody	:⊠Yes □ No		
All containers collected prior to expiration	n date: Yes 🗆 No 🗆	Unknown	
All containers received intact: ∀Yes □	No		
All containers received per COC submission	on: Yes 🗆 No		
All containers are appropriate for request	ted analysis: 🗌 Yes 🔲 N	o 🕅 Unknown	
All analysis received within specified hold	ling time: Yes 🗆 No	☐ Unknown	
Rad Chem. request received: ☐ Yes	to, If "Yes" sample survey	results: □ < 0.5 mrem/hr	□ > 0.5 mrem/hr
Rad Chem. meter calibration date verified	AV.	,	32 <del>77</del> 8

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request into LIMS:

**ENV ESR FORM 1001** version 2.0

## Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: Stillwater

Collected by: Lucas Martin

Generated: 09/18/2023 16:53

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023165355

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #3

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-01

Collect Date: 09/11/23

Collect Time: 11:10 Matrix: Drinking Water Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	1.6	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:38	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:26	EPA 200.8
Iron	Z-01b	940	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:33	EPA 200.7
Manganese	Z-01b	98.0	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:26	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:26	EPA 200.8

FINAL REPORT

Report ID: 09182023165355

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #2

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 2310409-02

Collect Date: 09/11/23

Collect Time: 11:20 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01 ´	1.2	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:38	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	.,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:28	EPA 200.8
Iron	Z-01b	443	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:35	EPA 200.7
Manganese	Z-01b	117	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:28	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:28	EPA 200.8

FINAL REPORT

Report ID: 09182023165355

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-03

Collect Date: 09/11/23

Collect Time: 11:25
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:38	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:42	EPA 200.7
Manganese	Z-01b	48.1	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:25	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:25	EPA 200.8

FINAL REPORT

Report ID: 09182023165355

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-03RE1

Collect Date: 09/11/23

Collect Time: 11:25
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01a	<	10.0	ua/L	B3I1065	09/15/23 08:33	09/15/23 14:15	EPA 200.8	_

FINAL REPORT Report ID: 09182023165355

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Location ID: Outside Warehouse

Collected By: Lucas Martin

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 2310409-04

Collect Date: 09/11/23

Collect Time: 11:50 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

Prepared

### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	16.1	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:37	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:48	EPA 200.7
Manganese	Z-01b	20.3	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:37	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:37	EPA 200.8

FINAL REPORT Report ID: 09182023165355

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: MSU Kitchen

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 2310409-05

Collect Date: 09/11/23

Result

Collect Time: 12:15 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

Prepared

### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	47.9	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:40	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:49	EPA 200.7
Manganese	Z-01b	19.0	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:40	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:40	EPA 200.8

FINAL REPORT Report ID: 09182023165355

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: MSU upper level

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 2310409-06

Collect Date: 09/11/23

Collect Time: 12:30

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:39	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:51	EPA 200.7
Manganese	Z-01b	19.7	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:34	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:34	EPA 200.8

FINAL REPORT

Report ID: 09182023165355

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: MSU upper level

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-06RE1

Collect Date: 09/11/23

Collect Time: 12:30 Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	73.4	10.0	ug/L	B3I1065	09/13/23 08:48	09/15/23 14:24	EPA 200.8

FINAL REPORT Report ID: 09182023165355

Authorized by:

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: MSU lower level

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-07

Collect Date: 09/11/23

Collect Time: 12:40
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:39	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	. ( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:53	EPA 200.7
Manganese	Z-01b	18.9	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:37	EPA 200.8
Lead	Z-01a	1.96	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:37	EPA 200.8

FINAL REPORT

Report ID: 09182023165355

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: MSU lower level

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-07RE1

Collect Date: 09/11/23

Collect Time: 12:40
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01a	45.2	10.0	ua/L	B3I1065	09/15/23 08:33	09/15/23 14:27	EPA 200.8	_

FINAL REPORT Report ID: 09182023165355

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

**Batch Summary** 

Samples in Batch: B3I1006 - Microbiology Prep

2310409-02 2310409-03

2310409-04 2310409-05

2310409-06

2310409-07

Samples in Batch: B3I1033 - EPA 200 Series Prep

2310409-01

2310409-01

2310409-02

2310409-04

2310409-05

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310409-03 2310409-03

23I0409-03RE1 23I0

23I0409-06 23I0409-06RE1

2310409-07

23I0409-07RE1

Samples in Batch: B3I1075 - General Chemistry Prep

2310409-01 23

2310409-02

2310409-03

2310409-06

2310409-07

Samples in Batch: B3I1091 - Metals Prep

2310409-01 2310409-02

2310409-03

2310409-04

2310409-05

2310409-06

2310409-07

FINAL REPORT

Report ID: 09182023165355

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5tfm Sainni

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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# Final Report **Quality Control**

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Batch B3I1075 - General Chemistry Prep

Facility Name/ID: 1820002

City: Stillwater

Collected By: Lucas Martin

Generated: 09/18/23 16:53

Results were produced by Minnesota Department of Health, except where noted.

#### Blank (B3I1075-BLK1) Prepared: 09/13/23 14:11 Analyzed: 09/15/23 08:36 RPD Analyte Reporting Spike Source %REC %REC Limits **RPD** Analyte Result Units Solids, Suspended mg/L 1.0 Duplicate (B3I1075-DUP1) Source: 23I0408-01 Prepared: 09/13/23 14:11 Analyzed: 09/15/23 08:37 Source **RPD** Analyte Reporting Spike Analyte Result Units %REC %REC Limits RPD Qualifier(s Limit 1.200 Solids, Suspended Z-01 mg/L 5 1.0

Duplicate (B3I1075-DUP2) Source: 23I0408-06 Prepared: 09/13/23 14:11 Analyzed: 09/15/23 08:37 RPD Analyte Reporting Spike Source Analyte Result Units %REC %REC Limits RPD mg/L Solids, Suspended Z-01 1.200 1.0 5

Reference (B3I1075-SRM1) Prepared: 09/13/23 14:11 Analyzed: 09/15/23 08:36 RPD Analyte Spike Source Reporting %REC RPD Analyte Result Units %REC Limits Qualifier(s Result Limit mg/L 44.8 2.5 46.00 103 79.7-107

FINAL REPORT

Solids, Suspended

Report ID: 09182023165355

Authorized by:

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# Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: Stillwater

Collected By: Lucas Martin Collector ID: None

Generated: 09/18/23 16:53

Results were produced by Minnesota Department of Health, except where noted.

DI. I. (DOIAGOO DI ICA)										
Blank (B3I1033-BLK1)				Prepare			lyzed: 09/13/2	23 12:50		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper		<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1033-BS1)				Prepare	ed: 09/12/23	3 10:59 Anal	lyzed: 09/13/2	23 12:53		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper	- ()	50.4		ug/L	50		101	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		50.0		ug/L	50		100	85-115		
Duplicate (B3I1033-DUP1)		Source: 2310	408-03	Prepare	ed: 09/12/23	3 10:59 Anal	lyzed: 09/13/2	23 13:05		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper		58.4	10.0	ug/L		57.4			2	2
Lead		<	1.00	ug/L		<				2
Manganese		21.5	10.0	ug/L		21.3			8.0	20
Duplicate (B3I1033-DUP2)		Source: 2310	410-03	Prepare	ed: 09/12/23	3 10:59 Anal	lyzed: 09/13/2	23 13:52		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper		3.37	10.0	ug/L		<			0.6	20
Lead		<	1.00	ug/L		<				2
Manganese		25.2	10.0	ug/L		25.3			0.4	20
Matrix Spike (B3I1033-MS1)		Source: 2310	408-03	Prepare	ed: 09/12/23	3 10:59 Anal	lyzed: 09/13/2	23 13:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper		105		ug/L	50		95	70-130		
Lead		47.8		ug/L	50		96	70-130		
Manganese		70.5		ug/L	50		98	70-130		
Matrix Spike (B3I1033-MS2)		Source: 2310	410-03	Prepare	ed: 09/12/23	3 10:59 Anal	lyzed: 09/13/2	23 13:55		
FINAL REPORT										

FINAL REPORT

Report ID: 09182023165355

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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# Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Lucas Martin

City: Stillwater

Collector ID: None

Generated: 09/18/23 16:53

### Results were produced by Minnesota Department of Health, except where noted.

Ratch	B311033	EDV 200	Series Prep
ıbaicn	B311033 -	· EPA 200	Series Preb

Matrix Spike (B3I1033-MS2)		Source: 23I0410-03 Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:55								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		52.2		ug/L	50		98	70-130		
Lead		47.7		ug/L	50		95	70-130		
Manganese		75.2		ug/L	50		100	70-130		

Reporting

Result

### Batch B3I1065 - EPA 200 Series Prep

Blank /	R311065_RI	K1)	

Frepare	u. 09/13/23	00.40 Allai	yzeu. 09/13/2	3 17.16		
	Spike	Source				RPD
Units	l evel	Result	%REC	%REC Limits	RPD	I imit

Analyte	Qualifier(s)	Result	Limit	Units
Copper	V1	<	10.0	ug/L
Lead		<	1.00	ug/L
Manganese		<	10.0	ug/L

Analyte

Manganese

Analyte

### Prepared: 09/13/23 08:48 Analyzed: 09/15/23 14:06

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	3.35(3)	<	10.0	ug/L						
Lead			1 00	ua/l						

#### LCS (B3I1065-BS1)

Blank (B3I1065-BLK2)

### Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:19

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	V1	51.0		ug/L	50		102	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		51.1		ug/L	50		102	85-115		

### LCS (B3I1065-BS2)

Prepared: 09/13/23	08:48	Analyzed: 09/15/23 14:09
Cnilco	Caur	

Analyte	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	- (-)	49.0		ug/L	50		98	85-115		
Lead		48.7		ug/L	50		97	85-115		

Duplicate (B3I1065-DUP1)

Source: 23I0409-03

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:28

FINAL REPORT

Report ID: 09182023165355

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# Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Lucas Martin

City: Stillwater

Collector ID: None Generated: 09/18/23 16:53

### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200	Series Prep									
Duplicate (B3I1065-DUP1)		Source: 2310	409-03	Prepare	ed: 09/13/23	08:48 Ana	lyzed: 09/13/2	23 17:28		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead	, ,	<	1.00	ug/L		<				20
Manganese		49.2	10.0	ug/L		48.1			2	20
Duplicate (B3I1065-DUP2)		Source: 2310	427-06	Prepare	ed: 09/13/23	08:48 Ana	lyzed: 09/13/2	23 18:03		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		304	10.0	ug/L		302			0.7	20
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	08:33 Ana	lyzed: 09/15/2	23 14:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3I1065-MS1)		Source: 2310	409-03	Prepare	ed: 09/13/23	08:48 Ana	lyzed: 09/13/2	23 17:31		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		49.4		ug/L	50		99	70-130		
Manganese		98.0		ug/L	50		100	70-130		
Matrix Spike (B3I1065-MS2)		Source: 2310	1427-06	Prepare	ed: 09/13/23	08:48 Ana	lyzed: 09/13/2	23 18:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<u> </u>	348		ug/L	50		93	70-130		
Lead		53.1		ug/L	50		106	70-130		
Manganese		62.6		ug/L	50		99	70-130		
Matrix Spike (B3l1065-MS3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	08:33 Ana	lyzed: 09/15/2	23 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	(-)	47.7		ug/L	50		94	70-130		
Lead		49.9		ug/L	50		100	70-130		
FINAL REPORT										316535

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# Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:53

### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200 Series Prep

Batch B3I1091 - Metals P	rep									
Blank (B3l1091-BLK1)				Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:11		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						
LCS (B3I1091-BS1)				Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( )	996		ug/L	1,000		100	85-115		
Duplicate (B3I1091-DUP1)		Source: 2310	408-01	Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:16		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( )	<	20.0	ug/L		<				20
Duplicate (B3I1091-DUP2)		Source: 2310	409-03	Prepare	d: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( )	<	20.0	ug/L		<				20
Matrix Spike (B3I1091-MS1)		Source: 2310	408-01	Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( )	908		ug/L	1,000		90	85-115		
Matrix Spike (B3I1091-MS2)		Source: 2310	409-03	Prepare	ed: 09/13/23	16:15 Anal	yzed: 09/14/2	23 09:45		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	<del>- (3)</del>	946		ug/L	1,000		94	85-115		

FINAL REPORT

Report ID: 09182023165355

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# Final Report Quality Control

### **Data Qualifiers and Definitions**

Z-01b Sample was collected in a 250 mL container.

Z-01a Sample was collected in a 1 L container.

Z-01 Filter contains <2.5 mg of residue.

V1 Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT Report ID: 09182023165355

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Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0410

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

httm://www.r.haalth.mm.va/diva/mh1/anvinamaanta1

# Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: Stillwater

Collected By: Brian Noma Collector ID: None

Program Name: Special Investigation

Generated: 09/18/23 16:51

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
A East 136	2310410-01	Drinking Water	09/11/23 11:10	09/11/23 13:45	0.1
A East 560	2310410-02	Drinking Water	09/11/23 11:20	09/11/23 13:45	0.1
A East 239	2310410-03	Drinking Water	09/11/23 11:50	09/11/23 13:45	0.1
A East 635	2310410-04	Drinking Water	09/11/23 11:55	09/11/23 13:45	0.1
A East 348	2310410-05	Drinking Water	09/11/23 12:05	09/11/23 13:45	0.1
A East 744	2310410-06	Drinking Water	09/11/23 12:10	09/11/23 13:45	0.1
A East 848	2310410-07	Drinking Water	09/11/23 12:20	09/11/23 13:45	0.1
A East 449	2310410-08	Drinking Water	09/11/23 12:30	09/11/23 13:45	0.1
A East 154	2310410-09	Drinking Water	09/11/23 12:40	09/11/23 13:45	0.1

FINAL REPORT Report ID: 09182023165138

Authorized by:

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Coalection ID								7/11/23	Fam Lin	ام
Collection Date   Collection Time   Collection							12:50pm			H
Collection ID   Collection Time   Collection T		~	1091110		7	/ Mot	12:50g	1	and law	2
Interest		Time	Date			ьу/		D	quished by/Affilaition	Relin
		Pb/CV			DW		40	1/11/23		20/AE
Containe   Decision   Date   Collection   Time   Collection   Name   N					DW				• • • • • • • • • • • • • • • • • • •	19
Collection ID   Collection Time   Collection Name   Footballers collected			2010		DW					18
Collection ID   Collection Time   Collection Name   TSS   Registrated			2302		DW					17
Collection ID   Collection Time   Collection Time   Collection Time   Collection Name   TSS   Rack:   250ml Mode,   250ml Mode		378			DW					16
Collection ID   Collection Time   Collection Time   Collection Time   Collection Time   Sample   ITSS   ITSS   Sample   ITSS   Sample   ITSS   ITSS   Sample   ITSS   ITSS   Sample   ITSS   ITSS   Sample   ITSS   ITS					DW					15
Collection ID   Collection Time   Collector Name   TSS   TRACT   Sample   11 HDPE   150   TSS   TRACT   150   A East 136   9/11/23   11:10   Strian Noma   DW   1   1   1   1   1   1   1   1   1		6			DW					14
Collection ID   Collection Time   Collection Name   TSS   Sample   11 HDPE   150mt sterial, 250mt HDPE,   A East 560   9/11/23   11:00   8rian Noma   Dw   1   1   1   1   1   1   1   1   1					DW					13
#Containers collected					DW				iii hii	12
Container   Collection   Time   Ti					DW					11
Location ID Collection Date Collection Time Collector Name Sample 11 HDPE Som Sterial, 250ml HDPE, A FLAST SLOD 9/11/23 11:30 Brian Noma DW 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					DW					10
Containers collected					DW					9
Cocation ID   Collection Date   Collection Time   Collector Name   TSS   TSA   Metals	0		_	-	DW	No	12:30	9/11/23	44	8
Location ID Collection Date Collection Time Collector Name TSS Pack We talk A Grast 136 9/11/23 11:10 Brian Noma DW 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		<u> </u>		DW		12:26	9/11/23	848	7A 1
Location ID Collection Date Collection Time Collector Name Type Unpreserved Nazszo3 HNO3  A GAST 136 9/11/23 11:30 Brian Noma DW 1 1 1 1  A GAST 239 9/11/23 11:50 Brian Noma DW 1 1 1  A GAST 348 9/11/23 11:55 Brian Noma DW 1 1 1  A GAST 348 9/11/23 11:55 Brian Noma DW 1 1 1  A GAST 348 9/11/23 11:55 Brian Noma DW 1 1 1  A GAST 348 9/11/23 11:55 Brian Noma DW 1 1 1	0	_		_	DW			111/2		6 A
Location ID Collection Date Collection Time Collector Name Type Unpreserved Na25203 HNO3  A East 560 9/11/23 11:50 Brian Noma DW 1 1 1  A East 635 9/11/23 11:55 Brian Noma DW 1 1 1  A East 635 9/11/23 11:55 Brian Noma DW 1 1 1	0				DW	Brian Noma	12:05	11/2		5 A
Location ID Collection Date Collection Time Collector Name Type unpreserved Na25203 HNO3  A East 560 9/11/23 11:20 Brian Noma DW 1 1 1  A East 560 9/11/23 11:50 Brian Noma DW 1 1 1  A East 560 9/11/23 11:50 Brian Noma DW 1 1 1	-1	-			DW	Brian Norma	55	111/2		4 A (
Location ID Collection Date Collection Time Collector Name Type unpreserved Nazszo3 HNO3  A Gust 136 9/11/23 11:20 Brian Noma Dw 1 1 1 1	4	_	_		DW	Brian Noma			239	3 A
Location ID  Collection Date  Collection Time  Collector Name  Collector Name  Collector Name  Collector Name  Type  In HDPE  150mL Sterial, 250ml HDPE,  Na2S2O3  HNO3  A GNS+ 136  A GNS	0	_	1	_	DW			M/2	East SloD	2 A
# Containers collected  # Containers collected  TSS  Rach  11 HDPE  150mL Sterial, 250ml HDPE,  Location ID  Collection Date  Collection Time  Collector Name  Type  Unpreserved  Na2S2O3  HNO3	P		-	-	DW		V		JUST 13/4	1
# Containers collected	age 3 of			1L HDPE unpreserved	Sample Type	Collector Name	Collection Time			TD TD
	28		Containers collec	#						



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

# Data Entry Worksheet



	Parcel Information Date & time of receipt: SEP 11 '23 13:4
Courier: WWalk-in  Tracking #	FedEx □.Spee-Dee □.UPS □ USPS □ Other courier
Client drop-off: ☐ Refr	igerator ( $1$ ) ( $186$ ) ( $207$ ) ( ) $\square$ Freezer ( $185$ ) ( ) $\square$ Unrefrigerated $\square$ Styrofoam/cardboard cooler $\square$ Cardboard box $\square$ Envelope $\square$ Plastic can
THE STATE OF THE S	No ☐ Yes, If "Yes" Custody seals intact: ☐ Yes ☐ No
	Evidentiary samples identified: ✓ No ☐ Yes
	Packaging & Temperature Information
Packing material: 🗆 Bu	bble wrap □ Styrofoam □ Paper ズNone □ Other
A. C.	et ice (loose)
	aterial:  Solid Partially frozen Liquid; Liquid temperature:°C  N/A
	temperature: 0 °C IR thermometer used:
Evidence of freezing:	
itials of person receivin	g parcel:
	Chain of Custody, Sample Container, & Analysis Information
	d: 🕅 Yes 🗆 No 1004 II-23 Standard 🗆 Civil 🗆 Criminal 🗀 Biological 💢 Priority/Emergency 🗀 Unknown Chain of Custody: 💢 Yes 🗀 No
All containers collected p	prior to expiration date: 🔯 Yes 🗆 No 🗀 Unknown
All containers received in	ntact: 🗹 Yes 🗆 No
All containers received p	er COC submission: 🖂 Yes 🗆 No
All containers are approp	priate for requested analysis: 🛛 Yes 🔲 No 🖂 Unknown
All analysis received with	nin specified holding time: Yes
(G)	ved: $\square$ Yes No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr tion date verified: $\square$ Yes No
All containers received p All containers are approp All analysis received with Rad Chem. request received Rad Chem. meter callbra	er COC submission:  Yes  No  Unknown  priate for requested analysis:  Yes  No  Unknown  print specified holding time:  Yes  No  Unknown  ved: Yes  No, If "Yes" sample survey results:  < 0.5 mrem/hr  > 0.5 mrem/hr  tion date verified: Yes  No

**ENV ESR FQRM 1001** version 2.0



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

# Data Entry Worksheet



			Date & time of receipt:		
Courier: Walk-in			S 🗆 Other courier		
Parcel: Plastic coole	De es vo	dboard cooler 🗆 C	ezer (185) ( ) 🗆 Unrefi Cardboard box 🗀 Envelope		n
Custody seals present	: ☑No ☐ Yes, If "Y	es" Custody seals in	tact: 🗆 Yes 🗆 No		595 TURESTAN
			Evidentiary samples iden		
	Packa	ging & Temperature	Information		
Packing material:	ubble wrap   Styrot	foam 🗆 Paper 🔀	None 🗆 Other		
Cooling material:	Vet ice (loose) □ W	et ice pack #( )	☐ Gel pack #( ) ☐ Dry ic	e 🗆 None	
and a second	104 274		☐ Other		
			iquid; Liquid temperature:		□ N/A
			neter used:		
Evidence of freezing:	10-11-10-10-10-10-10-10-10-10-10-10-10-1				
nitials of person receiv			5 M		<del>)</del>
	Chain of Custody	, Sample Container,	& Analysis Information		
Chain of Custody receive Chain of Custody type:	ved: □ Yes □ No	All the state of t	. & Analysis Information  ogical Priority/Emergence	y 🗆 Unknown	
Chain of Custody receive Chain of Custody type:	ved: X Yes ☐ No DOI-11-23 Standard ☐ Civil	☐ Criminal ☐ Biole	7	y 🗆 Unknown	
Chain of Custody type:	ved: X Yes No No-11-23 Standard Civil Chain of Custody: X	☐ Criminal ☐ Biole Yes ☐ No	ogical <b>Priority/Emergence</b>	y 🗆 Unknown	
Chain of Custody type: All containers unique t	ved: Xes No No-11-23 Standard Civil Chain of Custody: X  prior to expiration da	☐ Criminal ☐ Biole Yes ☐ No	ogical <b>Priority/Emergence</b>	y □ Unknown	
Chain of Custody type: All containers unique t All containers collected	ved: Xes No No-11-23 Standard Civil Chain of Custody: X  prior to expiration da  intact: Xes No	☐ Criminal ☐ Biolo Yes ☐ No  te: ☐ Yes ☐ No ☐	ogical <b>Priority/Emergence</b>	y 🗆 Unknown	
Chain of Custody type: All containers unique t All containers collected All containers received	ved: Xes No No-11-23 Standard Civil Chain of Custody: X  prior to expiration da  intact: Xes No per COC submission:	☐ Criminal ☐ Biolo Yes ☐ No  te: ☑ Yes ☐ No ☐  ✓ Yes ☐ No ☐	ogical Priority/Emergenc	y 🗆 Unknown	
Chain of Custody type: All containers unique t All containers collected All containers received All containers received	ved: Yes  No Standard  Civil Chain of Custody:  prior to expiration da intact: Yes  No per COC submission: opriate for requested a	☐ Criminal ☐ Biolo Yes ☐ No  te: ☐ Yes ☐ No ☐  Yes ☐ No ☐  analysis: ☐ Yes ☐ I	ogical Priority/Emergence Unknown  No Unknown	y 🗆 Unknown	
Chain of Custody type: All containers unique t All containers collected All containers received All containers received All containers are appr All analysis received w	ved: Yes  No No-11-23 Standard  Civil Chain of Custody:  prior to expiration da intact: Yes  No per COC submission: opriate for requested a thin specified holding	☐ Criminal ☐ Biolo Yes ☐ No  te: ☐ Yes ☐ No ☐  A Yes ☐ No ☐  analysis: ☐ Yes ☐ No  time: ☐ Yes ☐ No  f "Yes" sample surve	ogical Priority/Emergence Unknown  No Unknown		

Initials of person logging in the work order request into LIMS: \_

**ENV ESR FQRM 1001** 

version 2.0

# Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: Stillwater

Collected by: Brian Noma

Generated: 09/18/2023 16:51

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023165138

Authorized by:

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 136

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-01

Collect Date: 09/11/23

Collect Time: 11:10

Matrix: Drinking Water

Field Residual Chlorine Result: 0.77

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:39	SM 2540 D 22nd ED
Microbiological Parameter	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	(-)	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:43	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:55	EPA 200.7
Manganese	Z-01b	20.2	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:43	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:43	EPA 200.8

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 560

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-02

Collect Date: 09/11/23

Collect Time: 11:20 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.79

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:39	SM 2540 D 22nd ED
Microbiological Parame	eters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	`,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ′	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:46	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:57	EPA 200.7
Manganese	Z-01b	16.1	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:46	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:46	EPA 200.8

FINAL REPORT

Report ID: 09182023165138

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-03

Analyte

Field Name: None Sampling Point: None QA Type: None

Location ID: A East 239

Collect Date: 09/11/23 Collect Time: 11:50

Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.69

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:39	SM 2540 D 22nd ED
Microbiological Parame	eters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	, ,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:49	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 09:58	EPA 200.7
Manganese	Z-01b	25.3	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:49	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:49	EPA 200.8

FINAL REPORT

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 635

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-04

Collect Date: 09/11/23

Collect Time: 11:55

Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 1.08

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:39	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:58	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 10:00	EPA 200.7
Manganese	Z-01b	18.0	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:58	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 13:58	EPA 200.8

FINAL REPORT Report ID: 09182023165138

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 348

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-05

Collect Date: 09/11/23

Collect Time: 12:05 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.63

Field Fluoride Result: None Field pH Result: None

Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:30	SM 2540 D 22nd ED
Microbiological Parame	eters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ′	<	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:01	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1091	09/13/23 16:15	09/14/23 10:02	EPA 200.7
Manganese	Z-01b	31.5	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:01	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:01	EPA 200.8

FINAL REPORT

Report ID: 09182023165138

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 744

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-06

Collect Date: 09/11/23

Collect Time: 12:10 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.61

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:31	SM 2540 D 22nd ED
<b>Microbiological Parame</b>	ters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	.,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:24	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:42	EPA 200.7
Manganese	Z-01b	24.4	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:24	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:24	EPA 200.8

FINAL REPORT

Report ID: 09182023165138

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 848

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-07

Collect Date: 09/11/23

Collect Time: 12:20 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.58

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:31	SM 2540 D 22nd ED
<b>Microbiological Parame</b>	ters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	`,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:27	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:48	EPA 200.7
Manganese	Z-01b	24.0	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:27	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:27	EPA 200.8

FINAL REPORT

Report ID: 09182023165138

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 449

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-08

Collect Date: 09/11/23

Collect Time: 12:30

Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.63

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	2.0	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED
Microbiological Parameters	3							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	,,	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ′	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:30	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:50	EPA 200.7
Manganese	Z-01b	26.6	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:30	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:30	EPA 200.8

FINAL REPORT

Report ID: 09182023165138

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 154

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-09

Collect Date: 09/11/23

Collect Time: 12:40
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01a	<	20.0	ug/L	B3I1098	09/13/23 16:55	09/14/23 15:08	EPA 200.7
Manganese	Z-01a	25.5	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:40	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:40	EPA 200.8

FINAL REPORT Report ID: 09182023165138

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Stefan Saisoni

# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: A East 154

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-09RE1

Collect Date: 09/11/23

Collect Time: 12:40
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	26.7	10.0	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:30	EPA 200.8

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## Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

**Batch Summary** 

Samples in Batch: B3I1006 - Microbiology Prep

2310410-01 2310410-02

2310410-03

2310410-04

2310410-05

2310410-06

2310410-07

Samples in Batch: B3I1033 - EPA 200 Series Prep

2310410-01

2310410-08

2310410-02

2310410-03

2310410-04

2310410-05

Samples in Batch: B3I1034 - EPA 200 Series Prep

2310410-06

2310410-07

2310410-08

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310410-09

23I0410-09RE1

Samples in Batch: B3I1074 - General Chemistry Prep

2310410-05

2310410-01

2310410-06

2310410-07

2310410-08

Samples in Batch: B3I1075 - General Chemistry Prep

2310410-02

2310410-03

2310410-04

Samples in Batch: B3I1091 - Metals Prep

2310410-01

2310410-02

2310410-03

2310410-04

2310410-05

Samples in Batch: B3I1092 - Metals Prep

2310410-06

2310410-07

2310410-08

Samples in Batch: B3I1098 - Metals Prep

Stefan Sacon

2310410-09

FINAL REPORT

Report ID: 09182023165138

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FINAL REPORT Report ID: 09182023165138

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Public Health Laboratory, Minnesota Department of Health

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# Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: Stillwater

Collector ID: None

Generated: 09/18/23 16:51

### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1074-BLK1)				Prepare	d: 09/13/23	14:09 Anal	yzed: 09/15/2	3 08:29		
Amalida	Analyte	Danult	Reporting	•	Spike	Source	%REC		RPD	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Solids, Suspended		<	1.0	mg/L						
Duplicate (B3I1074-DUP1)		Source: 2310	410-05	Prepare	ed: 09/13/23	14:09 Anal	yzed: 09/15/2	3 08:30		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Z-01	<	1.0	mg/L		<				5
Duplicate (B3I1074-DUP2)		Source: 2310	410-06	Prepare	d: 09/13/23	14:09 Anal	yzed: 09/15/2	3 08:31		
Analyte	Analyte	Result	Reporting Limit	Units	Spike	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Qualifier(s) Z-01	<	1.0	mg/L	Level	< <		-		5
Reference (B3I1074-SRM1)				Prepare	ed: 09/13/23	14:09 Anal	yzed: 09/15/2	3 08:30		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	(-)	66.00	2.5	mg/L	64.4		102	79.7-107		
Batch B3I1075 - General	Chemistry Prep									
Blank (B3I1075-BLK1)				Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	2000000	<	1.0	mg/L						
Duplicate (B3I1075-DUP1)		Source: 2310	408-01	Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Z-01	<	1.0	mg/L		1.200				5
Duplicate (B3I1075-DUP2)		Source: 2310	408-06	Prepare	ed: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Z-01	1.200	1.0	mg/L		<				5

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health Report ID: 09182023165138

# Final Report Quality Control

Program Code: LS

Collector ID: None

Solids, Suspended

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: Stillwater

Collected By: Brian Noma

Generated: 09/18/23 16:51

44.8

103

79.7-107

Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1075 - General Chemistry Prep

# Analyte Result | Limit Limit Spike | Source | Level | Result | Reput |

2.5

46.00

mg/L

FINAL REPORT Report ID: 09182023165138

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# Final Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: Stillwater Generated: 09/18/23 16:51

Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1033-BLK1)				Prepare	d: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 12:50		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper		<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1033-BS1)				Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 12:53		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper	G. G	50.4		ug/L	50		101	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		50.0		ug/L	50		100	85-115		
Duplicate (B3I1033-DUP1)		Source: 23I0	408-03	Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 13:05		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RP Lin
Copper	, ,	58.4	10.0	ug/L		57.4			2	2
Lead		<	1.00	ug/L		<				2
Manganese		21.5	10.0	ug/L		21.3			8.0	2
Duplicate (B3I1033-DUP2)		Source: 23I0	410-03	Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 13:52		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper	( )	3.37	10.0	ug/L		<			0.6	2
Lead		<	1.00	ug/L		<				2
Manganese		25.2	10.0	ug/L		25.3			0.4	2
Matrix Spike (B3l1033-MS1)		Source: 23I0	408-03	Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 13:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper		105		ug/L	50		95	70-130		
Lead		47.8		ug/L	50		96	70-130		
Manganese		70.5		ug/L	50		98	70-130		
Matrix Spike (B3I1033-MS2)		Source: 23I0	410-03	Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 13:55		

FINAL REPORT

Report ID: 09182023165138

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## Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Batch B3I1033 - EPA 200 Series Prep

Project ID: MN Correctional Facility - Stillwater

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:55

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None

Matrix Spike (B3I1033-MS2)

Collected By: Brian Noma

Generated: 09/18/23 16:51

Results were produced by Minnesota Department of Health, except where noted.

Source: 23I0410-03

							,			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<b></b> (-)	52.2		ug/L	50		98	70-130		
Lead		47.7		ug/L	50		95	70-130		
Manganese		75.2		ug/L	50		100	70-130		
Batch B3I1034 - EPA 200	) Series Prep									
Blank (B3I1034-BLK1)				Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:19		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	,	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1034-BS1)				Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	,	51.5		ug/L	50		103	85-115		
Lead		50.0		ug/L	50		100	85-115		
Manganese		50.7		ug/L	50		101	85-115		
Duplicate (B3I1034-DUP1)		Source: 2310	410-08	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:33		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	(-)	2.66	10.0	ug/L		<			2	20
Lead		<	1.00	ug/L		<				20
Manganese		25.9	10.0	ug/L		26.6			3	20
Duplicate (B3I1034-DUP2)		Source: 2310	1419-02	Prenare	d: 09/12/23	11:03 Anal	yzed: 09/13/2	3 15:29		

FINAL REPORT Report ID: 09182023165138

Reporting

10.0

1.00

10.0

Result

27.9

26.9

<

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Spike

Units

ug/L

ug/L

ug/L

Source

29.2

<

27.0

%REC

%REC Limits

Stefan Saroni

Analyte Copper

Manganese

Authorized by:

Lead

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Analyte

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**RPD** 

20

20

20

RPD

4

0.5

## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:51

Collected By: Brian Noma Collector ID: None

Program Name: Special Investigation

Results were produced by Minnesota Department of Health, except where noted.

Matrix Spike (B3I1034-MS1)		Source: 2310	410-08	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper	( )	51.0		ug/L	50		97	70-130		
Lead		48.3		ug/L	50		97	70-130		
Manganese		76.2		ug/L	50		99	70-130		
Matrix Spike (B3I1034-MS2)		Source: 2310	419-02	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 15:32		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	(-)	77.1		ug/L	50		96	70-130		
Lead		48.2		ug/L	50		96	70-130		
Manganese		77.0		ug/L	50		100	70-130		
Batch B3I1065 - EPA 200	Series Prep									
Blank (B3l1065-BLK1)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:16		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	V1	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
Blank (B3l1065-BLK2)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/15/2	3 14:06		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		<	10.0	ug/L						
Lead		<	1.00	ug/L						
LCS (B3I1065-BS1)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:19		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	V1	51.0		ug/L	50		102	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		51.1		ug/L	50		102	85-115		
LCS (B3I1065-BS2)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/15/2	3 14:09		

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## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: Stillwater

Collector ID: None

Generated: 09/18/23 16:51

#### Results were produced by Minnesota Department of Health, except where noted.

LCS (B3I1065-BS2)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/15/2	23 14:09		
,	Analyte		Reporting	ricpart	Spike	Source	y200. 00/10/2	.0 14.00		RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Lim
Copper		49.0		ug/L	50		98	85-115		
Lead		48.7		ug/L	50		97	85-115		
Duplicate (B3I1065-DUP1)		Source: 2310	409-03	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 17:28		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Lead	Quaimer(s)	<	1.00	ug/L	Level	< <				20
Manganese		49.2	10.0	ug/L		48.1			2	20
Duplicate (B3I1065-DUP2)		Source: 2310	1427-06	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 18:03		
Analyte	Analyte	Result	Reporting	Units	Spike	Source	%REC	%REC Limits	RPD	RPD
Copper	Qualifier(s)	304	Limit 10.0	ug/L	Level	Result 302	701120	701 CO Emilio	0.7	L im
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	23 14:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3I1065-MS1)		Source: 2310	409-03	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 17:31		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Lead	Qualifier(s)	49.4	LIIIII	ug/L	50	11-51111	99	70-130		
Manganese		98.0		ug/L	50		100	70-130		
Matrix Spike (B3I1065-MS2)		Source: 2310	427-06	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 18:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		348		ug/L	50		93	70-130		
Lead		53.1		ug/L	50		106	70-130		

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## Final Report Quality Control

Program Code: LS

Collected By: Brian Noma

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None Generated: 09/18/23 16:51

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200	Series Prep									
Matrix Spike (B3I1065-MS3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	8 08:33 Ana	lyzed: 09/15/2	3 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		47.7		ug/L	50		94	70-130		
Lead		49.9		ug/L	50		100	70-130		
Batch B3I1091 - Metals P	rep									
Blank (B3l1091-BLK1)				Prepare	ed: 09/13/23	3 16:15 Ana	lyzed: 09/14/2	3 09:11		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						
LCS (B3I1091-BS1)				Prepare	ed: 09/13/23	3 16:15 Ana	lyzed: 09/14/2	3 09:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	(0)	996		ug/L	1,000		100	85-115		
Duplicate (B3I1091-DUP1)		Source: 2310	408-01	Prepare	ed: 09/13/23	3 16:15 Ana	lyzed: 09/14/2	3 09:16		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L		<				20
Duplicate (B3I1091-DUP2)		Source: 2310	1409-03	Prepare	ed: 09/13/23	3 16:15 Ana	lyzed: 09/14/2	3 09:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( )	<	20.0	ug/L		<				20
Matrix Spike (B3I1091-MS1)		Source: 2310	1408-01	Prepare	ed: 09/13/23	16:15 Ana	lyzed: 09/14/2	3 09:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	General (2)	908		ug/L	1,000		90	85-115		
Matrix Spike (B3I1091-MS2)		Source: 2310	409-03	Prepare	ed: 09/13/23	3 16:15 Anal	lyzed: 09/14/2	3 09:45		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	(- <i>y</i>	946		ug/L	1,000		94	85-115		
FINAL REPORT								Report ID:	0918202	316513

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# Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma Collector ID: None

City: Stillwater Generated: 09/18/23 16:51

	ults were produ	ced by Minn	esota Dep	artment	of Health	ı, except	where not	ed.		
Batch B3I1091 - Metals Pre	<b>∍</b> p									
Batch B3I1092 - Metals Pre	эр									
Blank (B3l1092-BLK1)				Prepare	ed: 09/13/23	16:16 Anal	lyzed: 09/14/2	23 10:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	• •	<	20.0	ug/L						
LCS (B3I1092-BS1)				Prepare	∍d: 09/13/23	16:16 Anal	lyzed: 09/14/2	23 10:10		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	• •	1000		ug/L	1,000		100	85-115		
Duplicate (B3I1092-DUP1)		Source: 2310	410-06	Prepare	∍d: 09/13/23	16:16 Anal	lyzed: 09/14/2	?3 11:44		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L		<				20
Duplicate (B3I1092-DUP2)		Source: 2310	418-03	Prepare	∍d: 09/13/23	16:16 Anal	lyzed: 09/14/2	23 12:10		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		5.70	20.0	ug/L		<			9	20
Matrix Spike (B3I1092-MS1)		Source: 2310	410-06	Prepare	∍d: 09/13/23	16:16 Anal	lyzed: 09/14/2	<b>!3 11:46</b>		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	• •	941		ug/L	1,000		94	85-115		
Matrix Spike (B3I1092-MS2)		Source: 2310	418-03	Prepare	∍d: 09/13/23	16:16 Anal	lyzed: 09/14/2	<b>!3 12:12</b>		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		899		ug/L	1,000		89	85-115		
Batch B3I1098 - Metals Pre	- эр									
Blank (B3I1098-BLK1)				Prepare	∍d: 09/13/23	16:55 Anal	lyzed: 09/14/2	23 14:58		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
FINAL REPORT								Report ID:	: 0918202	316513
Authorized by:						he results in	this report ap	ply only to the sam	 ples analy	/zed.

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## Final Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

Generated: 09/18/23 16:51

City: Stillwater

Results were produced by Minnesota Department of Health, except where noted.

#### Batch B3I1098 - Metals Prep Blank (B3I1098-BLK1) Prepared: 09/13/23 16:55 Analyzed: 09/14/23 14:58 RPD Analyte Reporting Spike Source Result %REC %REC Limits **RPD** Analyte Units ug/L Iron 20.0 LCS (B3I1098-BS1) Prepared: 09/13/23 16:55 Analyzed: 09/14/23 15:00 Source **RPD** Analyte Reporting Spike Analyte Result Units %REC %REC Limits RPD Qualifier(s Limit 973 ug/L 1,000 97 85-115 Iron Duplicate (B3I1098-DUP1) Source: 23I0408-09 Prepared: 09/13/23 16:55 Analyzed: 09/14/23 15:04 RPD Analyte Reporting Spike Source Analyte Result Units %REC %REC Limits RPD ug/L 6 20 Iron 6.76 20.0 Matrix Spike (B3I1098-MS1) Source: 23I0408-09 Prepared: 09/13/23 16:55 Analyzed: 09/14/23 15:06 Analyte Reporting Spike Source RPD %REC RPD Analyte Result Units %REC Limits Qualifier(s Result Limit ug/L 1,000 96 969 85-115 Iron

FINAL REPORT

Report ID: 09182023165138

Authorized by:

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### Final Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01b Sample was collected in a 250 mL container.

Z-01a Sample was collected in a 1 L container.

Z-01 Filter contains <2.5 mg of residue.

V1 Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT

Authorized by:

Report ID: 09182023165138

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Stefan Saioni



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0411

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

http://www.haalth.man.ya/diva/mhl/anvinamaantal

# Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: None

Collected By: Brenda Collector ID: None

Program Name: Special Investigation

Generated: 09/18/23 16:49

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Atl - Office Sink	2310411-01	Drinking Water	09/11/23 12:33	09/11/23 13:45	4.8
Atl 301	2310411-02	Drinking Water	09/11/23 12:40	09/11/23 13:45	4.8
Atl 407	2310411-03	Drinking Water	09/11/23 12:45	09/11/23 13:45	4.8
Atl 104	2310411-04	Drinking Water	09/11/23 12:52	09/11/23 13:45	4.8
Atl 209	2310411-05	Drinking Water	09/11/23 12:57	09/11/23 13:45	4.8

FINAL REPORT Report ID: 09182023164921

Authorized by:

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Stefan Saroni

		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	ω	2	ы	Line #	
Jan Luson	Relinquished by/Affilaition																Atl 209	447 104	4L 407	At) 301	生しのだっいいと	Location ID	
7 21																1	4				9/11/23	Collection Date	
9/11/23 1207pm	1 1							23									12:57 m	12152 pm	12:45 pm	12140pm	12633 007	Collection Time	
	Accepted by/Affiliation							23 0411									(	0	0.25	1 2	Brenda O.	A \\ Collector Name	Bronda for
Ham /	Affiliation	DW	DW	DW	DW	DW	DW	DW	DW	DW	0.07 cm DW	37 CL DW	25 671 DW	2,20 ch DW	0.00 ch DW	Sample Type							
																				_		le 11	4
04-11-767	Date										100 mg/m						_	_	-		_	150mL Sterial, Na2S2O3	# Containers collected
23/ 185	Time																	_	-	_	_	250ml HDPE,	cted



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

# Data Entry Worksheet



Parce	I Information	Date & time of receipt:	SEP11'23 13:45
Courier: Walk-in			
Client drop-off: ☐ Refrigerator (1) (186) (207)  Parcel: ☐ Plastic cooler ☐ Styrofoam/cardboar			
□ None □ Other			0(
Custody seals present: ♥No □ Yes, If "Yes" C			
Custody seal #		Evidentiary samples iden	tified: ≅No ☐ Yes
Packaging 8	& Temperature	Information	
Packing material: ☐ Bubble wrap ☐ Styrofoam	☐ Paper 🗷	None 🗆 Other	
Cooling material: ₩et ice (loose) □ Wet ice			
☐ Refrigerator (1) (186) (207) ( ) ☐ Freez	er (185) ( )	Other	
Condition of cooling material:   Solid   Partia			
Representative sample temperature: $\iota$ (. $\%$	C IR thermon	eter used:A (9	
Evidence of freezing:   Yes You			
Initials of person receiving parcel:			
Chain of Custody, Sam	ple Container,	& Analysis Information	
Chain of Custody received:			
Chain of Custody type: ☐ Standard ☐ Civil ☐ Cr	iminal 🗌 Biolo	ogical ØPriority/Emergency	/ 🗆 Unknown
All containers unique to Chain of Custody: Yes		/	
All containers collected prior to expiration date:	Ùes □ No □	] Unknown	
All containers received intact: Ves No			
All containers received per COC submission: Ves	□ No		
All containers are appropriate for requested analys	sis: Yes 🗆 N	lo 🗆 Unknown	
All analysis received within specified holding time:	<b>∂</b> Yes □ No	Unknown	
Rad Chem. request received:  Yes No, If "Yes Rad Chem. meter calibration date verified:  Yes	^	results: $\square$ < 0.5 mrem/hr	□ <u>&gt;</u> 0.5 mrem/hr
	10.70		

ENV ESR FORM 1001 version 2.0

Initials of person logging in the work order request into LIMS:

# Final Report Case Narrative

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: None

Collected by: Brenda
Collector ID: None

Generated: 09/18/2023 16:48

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023164921

Authorized by:

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 5 of 16

#### Final Report **Analytical Results**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: None

Collected By: Brenda

Generated: 09/18/23 16:49

Collector ID: None

MDH Sample Number: 23I0411-01

Location ID: Atl - Office Sink

Collect Date: 09/11/23 Collect Time: 12:33

Field Residual Chlorine Result: 0.00

Field Name: None Sampling Point: None QA Type: None

Analyte

Lead

Coliform, Total

Matrix: Drinking Water

Reporting

1.00

Result

Absent

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

09/13/23 14:39

Method

EPA 200.8

09/12/23 10:17 SM 9223 B 22nd

Results were produced by the Minnesota Department of Health, except where noted.

Units

/100mL

ug/L

Batch

B3I1006

B3I1034

Prepared

09/11/23 15:42

09/12/23 11:03

#### **Microbiological Parameters**

Analyte

Z-01a

								ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	42.3	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:39	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:52	EPA 200.7
Manganese	Z-01a	15.7	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:39	EPA 200.8

FINAL REPORT Report ID: 09182023164921

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Atl 301

Field Name: None

QA Type: None

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:49

MDH Sample Number: 23I0411-02

Collect Date: 09/11/23

Collect Time: 12:40

Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 2.20

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	22.4	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:42	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:54	EPA 200.7
Manganese	Z-01a	21.8	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:42	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:42	EPA 200.8

FINAL REPORT Report ID: 09182023164921

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Atl 407

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:49

MDH Sample Number: 23I0411-03

Collect Date: 09/11/23

Collect Time: 12:45 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.25

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	19.4	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:45	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:55	EPA 200.7
Manganese	Z-01a	27.5	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:45	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:45	EPA 200.8

FINAL REPORT Report ID: 09182023164921

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Atl 104

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:49

MDH Sample Number: 23I0411-04

Collect Date: 09/11/23

Collect Time: 12:52 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.37

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	16.9	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:48	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:57	EPA 200.7
Manganese	Z-01a	23.4	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:48	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:48	EPA 200.8

FINAL REPORT Report ID: 09182023164921

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Location ID: Atl 209

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:49

MDH Sample Number: 23I0411-05

Collect Date: 09/11/23

Collect Time: 12:57
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.07

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1006	09/11/23 15:42	09/12/23 10:17	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	64.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:51	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 11:59	EPA 200.7
Manganese	Z-01a	20.5	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:51	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:51	EPA 200.8

FINAL REPORT Report ID: 09182023164921

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:49

**Batch Summary** 

Samples in Batch: B3I1006 - Microbiology Prep

2310411-01 2310411-02

2310411-03

2310411-04

2310411-05

Samples in Batch: B3I1034 - EPA 200 Series Prep

2310411-01

2310411-02

2310411-03

2310411-04

2310411-05

Samples in Batch: B3I1074 - General Chemistry Prep

2310411-02

Samples in Batch: B3I1092 - Metals Prep

2310411-01 2310411-02 2310411-03

2310411-04

2310411-05

FINAL REPORT

Report ID: 09182023164921

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## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None

Generated: 09/18/23 16:49

#### Results were produced by Minnesota Department of Health, except where noted.

#### Batch B3I1074 - General Chemistry Prep Blank (B3I1074-BLK1) Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:29 RPD Analyte Reporting Spike Source %REC %REC Limits **RPD** Analyte Result Units Solids, Suspended mg/L 1.0 Duplicate (B3I1074-DUP1) Source: 23I0410-05 Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:30 Source **RPD** Analyte Reporting Spike Analyte Result Units %REC %REC Limits RPD Qualifier(s Limit Solids, Suspended Z-01 mg/L 5 1.0 Duplicate (B3I1074-DUP2) Source: 23I0410-06 Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:31 RPD Analyte Reporting Spike Source Analyte Result Units %REC %REC Limits RPD mg/L Solids, Suspended Z-01 1.0 5 Reference (B3I1074-SRM1) Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:30 RPD Analyte Reporting Spike Source %REC RPD Analyte Result Units %REC Limits Qualifier(s Result Limit mg/L 64.4 2.5 102 66.00 79.7-107 Solids, Suspended

FINAL REPORT Report ID: 09182023164921

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## Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None

Generated: 09/18/23 16:49

#### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1034-BLK1)				Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:19		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	4	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1034-BS1)				Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper		51.5		ug/L	50		103	85-115		
Lead		50.0		ug/L	50		100	85-115		
Manganese		50.7		ug/L	50		101	85-115		
Duplicate (B3I1034-DUP1)		Source: 2310	410-08	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:33		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	<i>Calamiri</i> (5)	2.66	10.0	ug/L		<			2	20
Lead		<	1.00	ug/L		<				20
Manganese		25.9	10.0	ug/L		26.6			3	20
Duplicate (B3I1034-DUP2)		Source: 2310	419-02	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 15:29		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	<i>(-)</i>	27.9	10.0	ug/L		29.2			4	20
Lead		<	1.00	ug/L		<				20
Manganese		26.9	10.0	ug/L		27.0			0.5	20
Matrix Spike (B3I1034-MS1)		Source: 2310	410-08	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	(-7	51.0		ug/L	50		97	70-130		
Lead		48.3		ug/L	50		97	70-130		
Manganese		76.2		ug/L	50		99	70-130		
Matrix Spike (B3I1034-MS2)		Source: 2310	419-02	Pronare	ad: 09/12/23	:11·03 Anal	yzed: 09/13/2	3 15:32		

FINAL REPORT Report ID: 09182023164921

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 13 of 16

## Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collected By: Brenda Collector ID: None

Generated: 09/18/23 16:49

#### Results were produced by Minnesota Department of Health, except where noted.

Matrix Spike (B3I1034-MS2)		Source: 2310	419-02	Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 15:32		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	,	77.1		ug/L	50		96	70-130		
Lead		48.2		ug/L	50		96	70-130		
Manganese		77.0		ug/L	50		100	70-130		
Batch B3I1092 - Metals Pr	ер									
Blank (B3I1092-BLK1)				Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 10:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Iron	, ,	<	20.0	ug/L						
LCS (B3I1092-BS1)				Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 10:10		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Iron		1000		ug/L	1,000		100	85-115		
Duplicate (B3I1092-DUP1)		Source: 2310	410-06	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 11:44		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Iron	, ,	<	20.0	ug/L		<				20
Duplicate (B3I1092-DUP2)		Source: 2310	418-03	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 12:10		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Iron	( )	5.70	20.0	ug/L		<			9	20
Matrix Spike (B3I1092-MS1)		Source: 2310	410-06	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 11:46		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Iron	3(3)	941		ug/L	1,000		94	85-115		
Matrix Spike (B3I1092-MS2)		Source: 2310	418-03	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 12:12		
	Analyte		Reporting		Spike	Source				RPD

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## Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda Collector ID: None

Collected By Brands

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:49

#### Results were produced by Minnesota Department of Health, except where noted.

#### Batch B3I1092 - Metals Prep

Matrix Spike (B3I1092-MS2)		Source: 23104	118-03	Prepare	ed: 09/13/23	16:16 Anal	yzed: 09/14/2	3 12:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit_
Iron	<del></del>	899		ug/L	1,000		89	85-115		

FINAL REPORT

Report ID: 09182023164921

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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# Final Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01a Sample was collected in a 250 mL container.

Z-01 Filter contains <2.5 mg of residue.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT

Authorized by:

Report ID: 09182023164921

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Stefan Saisoni



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0418

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

http://www.haalth.ma.va/diva/mh1/anvinamaata1

# Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: Stillwater

Collected By: Brian Noma Collector ID: None

Program Name: Special Investigation

Generated: 09/18/23 16:46

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B East 559	2310418-01	Drinking Water	09/11/23 13:43	09/11/23 16:00	5.3
B East 137	2310418-02	Drinking Water	09/11/23 13:53	09/11/23 16:00	5.3
B East 236	2310418-03	Drinking Water	09/11/23 14:00	09/11/23 16:00	5.3
B East 660	2310418-04	Drinking Water	09/11/23 14:08	09/11/23 16:00	5.3
B East 341	2310418-05	Drinking Water	09/11/23 14:20	09/11/23 16:00	5.3
B East 758	2310418-06	Drinking Water	09/11/23 14:30	09/11/23 16:00	5.3
B East 442	2310418-07	Drinking Water	09/11/23 14:43	09/11/23 16:00	5.3
B East 853	2310418-08	Drinking Water	09/11/23 14:50	09/11/23 16:00	5.3
B East 134	2310418-09	Drinking Water	09/11/23 14:55	09/11/23 16:00	5.3

FINAL REPORT Report ID: 09182023164709

Authorized by:

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Stefan Saroni

					-	#	# Containers collected	ted	
Line # Location ID	Colle	Collection Date	Collection Time	Collector Name	Sample Type	TSS 1L HDPE unpreserved	BOCH 150mL Sterial, Na2S2O3	Mactall S 250ml HDPE, HNO3 May Fe	Solar Solar
1BEAST SS9	g 6	11/23	13:43	Brian Noma	DW				0.62
1	37 91	11/23	13:53	Brian Nome	DW	-		_	0.59
38 Cast 2	236 9	11/23	14:00	Brian Noma	DW	<b>.</b> —		_	15.0
4 B Cast 660	100 Q/	11/23	14:08	Brian Noma	DW	_	_		Dia
58 Gast 341	41 0	11/23	14:20		DW	<u> </u>	_	_	19,0
or Fast 7	158 91	11/23	14:30		DW	-	_	-	0.59
7 B Fast 442	15 9/	11 /23	14:43	Brian Noma	DW	Ţ		_	480
8 B East 853	6	11/23	05:1-1	Brian Noma	DW	_	_		0.72
9 B East 134	6	11/23	14:52		DW	Pb, W			11
10					DW				
11			ŧ		DW				
12					DW				
13					DW				
14					DW				
15					DW				
16					DW				
17					DW				
18					DW		<b>2</b>		
19					DW		2310418		
20					DW				
Relinquished by/Affilaition	Affilaition		Date Time	Accepted by/Affiliation			Date	Time	
Je 3 o	gre	a/b	23 3:00 m			HOW	91173	Clost	
24	21	111/6	23 3:01 pm						
The hand	1	7/11/23	123 4:03 pm			100			
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		THE STATE OF THE S							



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

# Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 11	6:00
Courier:   Walk-in □ FedEx □ Spee-Dee □ UPS □ USPS □ Other courier	
Tracking #	- 3
Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Unrefrigerated  Parcel: ☐ Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can  ☐ None ☐ Other ☐ COOW ☐ Of 2 , Mixed	
Custody seals present: No Yes, If "Yes" Custody seals intact: Yes No No	
Custody seal # Evidentiary samples identified:	
Packaging & Temperature Information	
Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☒ None ☐ Other	
Cooling material: Wet ice (loose) ☐ Wet ice pack #( ) ☐ Gel pack #( ) ☐ Dry ice ☐ None	
□ Refrigerator (1) (186) (207) ( ) □ Freezer (185) ( ) □ Other	
	N/A
Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature:°C	
Evidence of freezing:   Yes	
nitials of person receiving parcel:	
Chain of Custody, Sample Container, & Analysis Information	
Chain of Custody received:   ✓ Yes □ No	
Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Biological ☐ Priority/Emergency ☐ Unknown	
All containers unique to Chain of Custody: Yes	
All containers collected prior to expiration date: Xes	
All containers received intact: Yes  No	
All containers received per COC submission Yes   No	
All containers are appropriate for requested analysis: Yes	
All analysis received within specified holding time: Yes	
Rad Chem. request received: $\square$ Yes $\square$ No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr	81
Rad Chem. meter calibration date verified:   Yes	

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request into LIMS:



# Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

# Data Entry Worksheet



SEP 11'23 16:00 Parcel Information Date & time of receipt: Courier: ₩alk-in FedEx Spee-Dee UPS USPS Other courier \_\_\_\_\_ Tracking # Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Unrefrigerated Parcel: ☑Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can □ None □ Other COOLEY 20f2, mixed Custody seals present: 

No □ Yes, If "Yes" Custody seals intact: □ Yes □ No □ Custody seal # Evidentiary samples identified: No 🗆 Yes Packaging & Temperature Information Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Other Condition of cooling material: ☐ Solid ☐ Fartially frozen ☐ Liquid; Liquid temperature: \_\_\_\_\_\_°C ☐ N/A Representative sample temperature: 39°C IR thermometer used: **Evidence of freezing:** \( \subseteq \text{Yes} \) Initials of person receiving parcel: Chain of Custody, Sample Container, & Analysis Information Chain of Custody received: 

✓ Yes □ No Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Biological ☐ Priority/Emergency ☐ Unknown All containers unique to Chain of Custody: 📈 Yes 🗆 No All containers collected prior to expiration date: 

✓ Yes □ No □ Unknown All containers received intact: Yes \( \simega \) No All containers received per COC submission: Yes No All containers are appropriate for requested analysis: ★ Yes □ No □ Unknown All analysis received within specified holding time: 

✓ Yes □ No □ Unknown Rad Chem. request received: ☐ Yes No, If "Yes" sample survey results: ☐ < 0.5 mrem/hr ☐ > 0.5 mrem/hr Rad Chem. meter calibration date verified: Yes

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request into LIMS:



# Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: Stillwater

Collected by: Brian Noma

Generated: 09/18/2023 16:46

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023164709

Authorized by:

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Location ID: B East 559

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-01

Collect Date: 09/11/23

Collect Time: 13:43 Matrix: Drinking Water Field Residual Chlorine Result: 0.62

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED
Microbiological Param	neters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	(-)	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:54	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:01	EPA 200.7
Manganese	Z-01b	27.3	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:54	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:54	EPA 200.8

FINAL REPORT

Report ID: 09182023164709

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-02

Collect Date: 09/11/23

Collect Time: 13:53
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.59

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

Prepared

Sampling Point: None QA Type: None

Field Name: None

Analyte

Location ID: B East 137

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

#### **General Chemistry Parameters**

Analyte

	Qualifier(s)		Limit					
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED
Microbiological Paran	neters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:57	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:03	EPA 200.7
Manganese	Z-01b	29.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:57	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:57	EPA 200.8

FINAL REPORT

Report ID: 09182023164709

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-03

Collect Date: 09/11/23

Collect Time: 14:00 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.57

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Sampling Point: None QA Type: None

Location ID: B East 236

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:06	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:08	EPA 200.7
Manganese	Z-01b	27.8	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:06	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:06	EPA 200.8

FINAL REPORT

Authorized by:

Report ID: 09182023164709

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B East 660

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-04

Collect Date: 09/11/23

Collect Time: 14:08

Reporting

Field Fluoride Result: None

Field Residual Chlorine Result: 0.62

Field pH Result: None

Field Name: None Sampling Point: None QA Type: None

Matrix: Drinking Water Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:33	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:09	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:14	EPA 200.7
Manganese	Z-01b	27.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:09	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:09	EPA 200.8

FINAL REPORT

Report ID: 09182023164709

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B East 341

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-05

Collect Date: 09/11/23

Collect Time: 14:20
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.61

Field Fluoride Result: None Field pH Result: None

Prepared

Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

#### **General Chemistry Parameters**

Analyte

	(Jualifier(s)		Limit					
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:33	SM 2540 D 22nd ED
Microbiological Para	meters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:12	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:16	EPA 200.7
Manganese	Z-01b	28.2	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:12	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:12	EPA 200.8

FINAL REPORT Report ID: 09182023164709

Authorized by:

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B East 758

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-06

Collect Date: 09/11/23

Collect Time: 14:30
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.59

Field Fluoride Result: None Field pH Result: None

Analyzed

Method

Sampling Point: None QA Type: None

Analyte

Field Name: None

ing Water Field pH Result: None Field PO4 Result: None

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

#### **General Chemistry Parameters**

Analyte

	Qualifier(s)		Limit					
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:33	SM 2540 D 22nd ED
<b>Microbiological Paramete</b>	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	`,	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ´	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:15	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:18	EPA 200.7
Manganese	Z-01b	27.4	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:15	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:15	EPA 200.8

FINAL REPORT

Report ID: 09182023164709

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# Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-07

Collect Date: 09/11/23

Collect Time: 14:43 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.84

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Sampling Point: None QA Type: None

Field Name: None

Location ID: B East 442

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:33	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ´	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:18	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:20	EPA 200.7
Manganese	Z-01b	31.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:18	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:18	EPA 200.8

FINAL REPORT

Report ID: 09182023164709

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### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B East 853

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-08

Collect Date: 09/11/23

Collect Time: 14:50 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.72

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Sampling Point: None QA Type: None

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:34	SM 2540 D 22nd ED
<b>Microbiological Paramete</b>	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	. ()	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ´	<	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:20	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:21	EPA 200.7
Manganese	Z-01b	29.0	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:20	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:20	EPA 200.8

FINAL REPORT Report ID: 09182023164709

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### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B East 134

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-09

Collect Date: 09/11/23

Collect Time: 14:55

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01a	<	20.0	ug/L	B3I1098	09/13/23 16:55	09/14/23 15:10	EPA 200.7
Manganese	Z-01a	22.0	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:43	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:43	EPA 200.8

FINAL REPORT Report ID: 09182023164709

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### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-09RE1

Collect Date: 09/11/23

Collect Time: 14:55
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Sampling Point: None QA Type: None

Location ID: B East 134

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01a	86.1	10.0	ua/L	B3I1065	09/15/23 08:33	09/15/23 14:33	EPA 200.8	_

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### Final Report **Quality Control**

Program Code: LS

Collected By: Brian Noma Collector ID: None

Program Name: Special Investigation

City: Stillwater

Generated: 09/18/23 16:46

Facility Name/ID: 1820002

Project ID: MN Correctional Facility - Stillwater

**Batch Summary** 

Samples in Batch: B3I1009 - Microbiology Prep

2310418-01 2310418-02

2310418-03

2310418-04

2310418-05

2310418-06

2310418-07

Samples in Batch: B3I1034 - EPA 200 Series Prep

2310418-01 2310418-08

2310418-08

2310418-02

2310418-03

2310418-04

2310418-05

2310418-06

2310418-07

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310418-09

23I0418-09RE1

Samples in Batch: B3I1074 - General Chemistry Prep

2310418-01 2310418-08 2310418-02

2310418-03

2310418-04

2310418-05

2310418-06

2310418-07

Samples in Batch: B3I1092 - Metals Prep

2310418-01

2310418-08

2310418-02

2310418-03

2310418-04

2310418-05

2310418-06

2310418-07

Samples in Batch: B3I1098 - Metals Prep

2310418-09

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### Final Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Batch B3I1074 - General Chemistry Prep

Facility Name/ID: 1820002

Collected By: Brian Noma

City: Stillwater Generated: 09/18/23 16:46

Results were produced by Minnesota Department of Health, except where noted.

#### Blank (B3I1074-BLK1) Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:29 RPD Analyte Reporting Spike Source %REC %REC Limits **RPD** Analyte Result Units Solids, Suspended mg/L 1.0 Duplicate (B3I1074-DUP1) Source: 23I0410-05 Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:30 Source **RPD** Analyte Reporting Spike Analyte Result Units %REC %REC Limits RPD Qualifier(s Limit Solids, Suspended Z-01 mg/L 5 1.0

Duplicate (B3I1074-DUP2)		Source: 23I0410-06	Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:31						
Analyte	Analyte Qualifier(s)	Reporting Result Limit	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended	Z-01	< 1.0	mg/L		<				5

Reference (B3I1074-SRM1)	Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:30									
Analyte	Analyte	Result	Reporting	Units	Spike	Source	%REC	%REC Limits	RPD	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	70REC LITTIES	KPD	Limit
Solids, Suspended		66.00	2.5	mg/L	64.4		102	79.7-107		

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### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None

Collected By: Brian Noma

Generated: 09/18/23 16:46

### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1034 - EPA 200	Series Prep									
Blank (B3l1034-BLK1)				Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 14:19		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1034-BS1)				Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del>(</del> (3)	51.5		ug/L	50		103	85-115		
Lead		50.0		ug/L	50		100	85-115		
Manganese		50.7		ug/L	50		101	85-115		
Duplicate (B3I1034-DUP1)		Source: 2310	410-08	Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 14:33		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	. ( )	2.66	10.0	ug/L		<			2	20
Lead		<	1.00	ug/L		<				20
Manganese		25.9	10.0	ug/L		26.6			3	20
Duplicate (B3I1034-DUP2)		Source: 2310	419-02	Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 15:29		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del> </del>	27.9	10.0	ug/L		29.2			4	20
Lead		<	1.00	ug/L		<				20
Manganese		26.9	10.0	ug/L		27.0			0.5	20
Matrix Spike (B3I1034-MS1)		Source: 23l0	410-08	Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 14:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	· · · · · · · · · · · · · · · · · · ·	51.0		ug/L	50		97	70-130		
Lead		48.3		ug/L	50		97	70-130		
Manganese		76.2		ug/L	50		99	70-130		
Matrix Spike (B3I1034-MS2)		Source: 2310	419-02	Prepare	ed: 09/12/23	3 11:03 Anal	yzed: 09/13/2	3 15:32		

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### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: Stillwater

Collector ID: None

Generated: 09/18/23 16:46

### Results were produced by Minnesota Department of Health, except where noted.

I Datah	D311031	Series Prep	
ibaitii	D311U34 -	Selles Fleb	

Matrix Spike (B3I1034-MS2)	Source: 23I0419-02				Prepared: 09/12/23 11:03 Analyzed: 09/13/23 15:32					
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		77.1		ug/L	50		96	70-130		
Lead		48.2		ug/L	50		96	70-130		
Manganese		77.0		ug/L	50		100	70-130		

### Batch B3I1065 - EPA 200 Series Prep

Blank (B3I1065-BLK1)		Pı	Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:16	
	Analyte	Reporting	Snike Source	

	Analyte		Reporting		Spike	Source	0/ 050	0/ BEQ 1 : ::	-	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Copper	V1	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						

#### Blank (B3I1065-BLK2)

Prepared: 09/13/23 08:48	Analyzed: 09/15/23 14:06
--------------------------	--------------------------

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	<	10.0	ug/L						
Lead		<	1 00	ua/L						

#### LCS (B3I1065-BS1)

### Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:19

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	V1	51.0		ug/L	50		102	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		51.1		ug/L	50		102	85-115		

#### LCS (B3I1065-BS2)

Analyte	Analyte Qualifier(s)	Result	eporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<b>4</b> (-)	49.0		ug/L	50		98	85-115		
Lead		48 7		ua/L	50		97	85-115		

Duplicate (B3I1065-DUP1)

Source: 23I0409-03

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:28

FINAL REPORT

Report ID: 09182023164709

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### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

Collected By: Brian Noma Collector ID: None

Program Name: Special Investigation

Results were produced by Minnesota Department of Health, except where noted.

Duplicate (B3I1065-DUP1)		Source: 2310	409-03	Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:28		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Lead	***************************************	<	1.00	ug/L		<				20
Manganese		49.2	10.0	ug/L		48.1			2	20
Duplicate (B3I1065-DUP2)		Source: 2310	427-06	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	3 18:03		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	2(3)	304	10.0	ug/L		302			0.7	20
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	3 14:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3I1065-MS1)		Source: 23I0409-03		Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:31						
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	l locito	Spike	Source				RPD Limit
			Limii	Units	Level	Result	%REC	%REC Limits	RPD	1 111111
Lead	Qualifier(s)	49.4	Limit	ug/L	Level 50	Result	%REC 99	%REC Limits 70-130	RPD	1 1/111
Lead Manganese	Qualifier(s)		Limit			Result			RPD	
	Gramer(S)	49.4		ug/L ug/L	50 50		99	70-130 70-130	RPD	
Manganese	Analyte	49.4 98.0	427-06 Reporting	ug/L ug/L	50 50 ed: <b>09/13/23</b> Spike	08:48 Anal	99 100	70-130 70-130	RPD RPD	RPD
Manganese  Matrix Spike (B3I1065-MS2)  Analyte	, , , ,	49.4 98.0 Source: 2310	427-06	ug/L ug/L Prepare	50 50 ed: <b>09/13/23</b>	08:48 Anal	99 100 yzed: <b>09/13/2</b>	70-130 70-130 <b>3 18:06</b>		
Manganese Matrix Spike (B3l1065-MS2)	Analyte	49.4 98.0 Source: 2310 Result	427-06 Reporting	ug/L ug/L <b>Prepare</b> Units	50 50 ed: <b>09/13/23</b> Spike Level	08:48 Anal	99 100 yzed: <b>09/13/2</b> %REC	70-130 70-130 <b>3 18:06</b> %REC Limits		RPD
Manganese  Matrix Spike (B3I1065-MS2)  Analyte  Copper	Analyte	49.4 98.0 Source: 2310 Result 348	427-06 Reporting	ug/L ug/L  Prepare Units ug/L	50 50 ed: <b>09/13/23</b> Spike Level 50	08:48 Anal	99 100 lyzed: <b>09/13/2</b> %REC 93	70-130 70-130 <b>3 18:06</b> %REC Limits 70-130		RPD
Marrix Spike (B3I1065-MS2)  Analyte Copper Lead	Analyte	49.4 98.0 Source: 2310 Result 348 53.1	427-06 Reporting Limit	ug/L ug/L  Prepare Units ug/L ug/L ug/L	50 50 <b>d: 09/13/23</b> Spike Level 50 50 50	08:48 Anal Source Result	99 100 <b>yzed: 09/13/2</b> %REC 93 106	70-130 70-130 <b>3 18:06</b> %REC Limits 70-130 70-130 70-130		RPD
Manganese  Matrix Spike (B3l1065-MS2)  Analyte  Copper Lead  Manganese	Analyte  Qualifier(s)  Analyte	49.4 98.0 Source: 2310 Result 348 53.1 62.6	427-06 Reporting Limit	ug/L ug/L  Prepare Units ug/L ug/L ug/L	50 50 <b>d: 09/13/23</b> Spike Level 50 50 50	08:48 Anal Source Result	99 100 yzed: <b>09/13/2</b> %REC 93 106 99	70-130 70-130 <b>3 18:06</b> %REC Limits 70-130 70-130 70-130		RPD
Manganese  Matrix Spike (B3I1065-MS2)  Analyte  Copper  Lead  Manganese  Matrix Spike (B3I1065-MS3)	Analyte Qualifier(s)	49.4 98.0 Source: 2310 Result 348 53.1 62.6 Source: 2310	427-06 Reporting Limit  409-03RE1 Reporting	ug/L ug/L  Prepare Units ug/L ug/L ug/L	50 50 sd: 09/13/23 Spike Level 50 50 50 50 sd: 09/15/23 Spike	Source Result  08:33 Anal Source	99 100 lyzed: <b>09/13/2</b> %REC 93 106 99 lyzed: <b>09/15/2</b>	70-130 70-130 3 18:06 %REC Limits 70-130 70-130 70-130	RPD	RPD Limit

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### Final Report Quality Control

Program Code: LS

Collector ID: None

Collected By: Brian Noma

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:46

Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200 S	eries Prep									
Batch B3I1092 - Metals Pre	p									
Blank (B3I1092-BLK1)				Prepare	d: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 10:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	· ,	<	20.0	ug/L						
LCS (B3I1092-BS1)				Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 10:10		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	3(3)	1000		ug/L	1,000		100	85-115		
Duplicate (B3I1092-DUP1)		Source: 2310	410-06	Prepare	d: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 11:44		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	Quaimer(s)	<	20.0	ug/L	LEVEL	<				20
Duplicate (B3I1092-DUP2)		Source: 2310	418-03	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 12:10		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ( /	5.70	20.0	ug/L		<			9	20
Matrix Spike (B3I1092-MS1)		Source: 2310	410-06	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 11:46		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	3, 3, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	941		ug/L	1,000		94	85-115		
Matrix Spike (B3I1092-MS2)		Source: 2310	418-03	Prepare	ed: 09/13/23	3 16:16 Anal	yzed: 09/14/2	3 12:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	<del>General Co</del>	899		ug/L	1,000		89	85-115		
Batch B3I1098 - Metals Pre	p									
Blank (B3I1098-BLK1)				Prepare	d: 09/13/23	16:55 Anal	yzed: 09/14/2	3 14:58		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
FINAL REPORT								Report ID:	·	2316470
								Nepolt ID.	. 50 10202	010470

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 22 of 24

### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: Stillwater

Collected By: Brian Noma Collector ID: None

Generated: 09/18/23 16:46

Results were produced by Minnesota Department of Health, except where noted.

#### Batch B3I1098 - Metals Prep Blank (B3I1098-BLK1) Prepared: 09/13/23 16:55 Analyzed: 09/14/23 14:58 RPD Analyte Reporting Spike Source Result %REC %REC Limits **RPD** Analyte Units ug/L Iron 20.0 LCS (B3I1098-BS1) Prepared: 09/13/23 16:55 Analyzed: 09/14/23 15:00 Source **RPD** Analyte Reporting Spike Analyte Result Units %REC %REC Limits RPD Qualifier(s Limit 973 ug/L 1,000 97 85-115 Iron Duplicate (B3I1098-DUP1) Source: 23I0408-09 Prepared: 09/13/23 16:55 Analyzed: 09/14/23 15:04 RPD Analyte Reporting Spike Source Analyte Result Units %REC %REC Limits RPD ug/L 6 20 Iron 6.76 20.0 Matrix Spike (B3I1098-MS1) Source: 23I0408-09 Prepared: 09/13/23 16:55 Analyzed: 09/14/23 15:06 Analyte Reporting Spike Source RPD RPD Analyte Result Units %REC %REC Limits Qualifier(s Result Limit ug/L 1,000 96 969 85-115 Iron

FINAL REPORT Report ID: 09182023164709

Authorized by:

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### Final Report Quality Control

### **Data Qualifiers and Definitions**

Z-01b Sample was collected in a 250 mL container.

Z-01a Sample was collected in a 1 L container.

Z-01 Filter contains <2.5 mg of residue.

V1 Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT Report ID: 09182023164709

Authorized by:

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Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0419

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

httm://www.r.haalth.mm.va/diva/mh1/anvinamaanta1

## Final Report Summary of Samples Received

Program Code: LS

Collector ID: None

Program Name: Special Investigation

Collected By: Brenda / Corey

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: Stillwater

Generated: 09/18/23 16:44

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
CHD W124 SS	2310419-01	Drinking Water	09/11/23 14:00	09/11/23 16:00	3.3
CHD E101 SS	2310419-02	Drinking Water	09/11/23 14:10	09/11/23 16:00	3.3
CHD E213	2310419-03	Drinking Water	09/11/23 14:17	09/11/23 16:00	3.3
CHD W 236	2310419-04	Drinking Water	09/11/23 14:23	09/11/23 16:00	3.3
CHD W321	2310419-05	Drinking Water	09/11/23 14:29	09/11/23 16:00	3.3
CHD E 317 not stainless	2310419-06	Drinking Water	09/11/23 14:36	09/11/23 16:00	3.3
CHD E 416	2310419-07	Drinking Water	09/11/23 14:41	09/11/23 16:00	3.3
CHD W 427	2310419-08	Drinking Water	09/11/23 14:49	09/11/23 16:00	3.3
CHD W538	2310419-09	Drinking Water	09/11/23 14:56	09/11/23 16:00	3.3
CHD E 510	2310419-10	Drinking Water	09/11/23 15:03	09/11/23 16:00	3.3

FINAL REPORT Report ID: 09182023164451

Authorized by:

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030	20	19	18	17	16	15	14	13	12	11	10	9	co	7	6	5	4	ω	2	ы	# [			
Relinquished by/Affilaition											OIS 3 AHO	CHDW538	CADVY	CHO & 4	CHDE3	SM QHD	CHD W 236	CHD € 213	CHD & 12	CHO WIZY	Location ID	MINTE	= 2	
Millaition Con											0	88	427	116	1 X ST	2)	36	ひ	28 101	y ss		1 STC	-	
+10m									N. C.		1		<b>(</b>		Stamless				_	9/11/23	Collection Date	TROOM	2	
9/11/23 3:09 9/11/23 4:03										3	3103 pm	2156 pm	2:496m	2341 pm	2136 pm	2129'OM	2:2363	2:17pm	2:10 pm	2:00 pm	Collection Time			T
Accep			<b>萨</b>		3				188		/	Consu	+					M		Brenda	Collector Name	Browns to	?	-
epted by/Affiliation								20		, c	0,80 mollow	0,25mil	7	0.10	1.16 % 7	0,18 ~3/1	0.53 may DW	0.26 mg/L	0.28 mg/	0,10,31		7		
HOM 1	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DWING	DW M	DW	DW	DW	DW		_	Sample		
					No. of the last						1755		- Track	多	5	155		135		1785	unpreserved	11 HDPF	#	
Date 09-11-			2310419								_		_							_	Na2S2O3	150mL Sterial.	# Containers collected	
Time 23 / 1 / 00					Ī						_			_				-	9	•	HNO3	250ml HDPE.	cted	
							1				1	100-	E	100	106	205	-0 P	-03	-02	Pa	age 3	3 of 2	25	



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

### Data Entry Worksheet



	Parcel Information Date & time of receipt: SEP 11 '23 16:
The state of the s	FedEx Spee-Dee UPS USPS Other courier
Parcel:  ☐ Plastic cooler ☐ None ☐ Other	rigerator (1) (186) (207) ( ) □ Freezer (185) ( ) □ Unrefrigerated r □ Styrofoam/cardboard cooler □ Cardboard box □ Envelope □ Plastic can
	No ☐ Yes, If "Yes" Custody seals intact: ☐ Yes ☐ No
Custody seal #	Evidentiary samples identified:   No □ Ye
	Packaging & Temperature Information
Packing material:   Bu	bble wrap   Styrofoam   Paper   None   Other
Cooling material: 💢 We	et ice (loose) $\square$ Wet ice pack #( ) $\square$ Gel pack #( ) $\square$ Dry ice $\square$ None
	36) (207) ( ) 🗆 Freezer (185) ( ) 🗆 Other
Condition of cooling ma	aterial: ☐ Solid Ø Partially frozen ☐ Liquid; Liquid temperature:°C ☐ N/
Representative sample	temperature: $3.3  \text{°C}$ IR thermometer used: $8-19$
Evidence of freezing:	Yes No
itials of person receivin	
	Chain of Custody, Sample Container, & Analysis Information
Chain of Custody receive	
Chain of Custody receive	
Chain of Custody type:	ed:   Yes □ No
Chain of Custody type: Ø	ed: X Yes No  Standard Civil Criminal Biological Priority/Emergency Unknown
Chain of Custody type: All containers unique to	ed: Yes No Standard Civil Criminal Biological Priority/Emergency Unknown Chain of Custody: Yes No Drior to expiration date: Yes No Unknown
Chain of Custody type: All containers unique to All containers collected p	ed: Yes No Standard Civil Criminal Biological Priority/Emergency Unknown Chain of Custody: Yes No Drior to expiration date: Yes No Unknown
Chain of Custody type: All containers unique to All containers collected p All containers received in All containers received p	ed: Yes No Standard Civil Criminal Biological Priority/Emergency Unknown Chain of Custody: Yes No Drior to expiration date: Yes No Unknown  Intact: Yes No No
Chain of Custody type: All containers unique to All containers collected p All containers received in All containers received p All containers are approp	ed:  Yes  No Standard  Civil  Criminal  Biological  Priority/Emergency  Unknown Chain of Custody:  Yes  No  prior to expiration date:  Yes  No  Unknown  intact:  Yes  No  No    per COC submission:  Yes  No  No    Yes  No  No  No  No  No  No  No  No  No  N

Initials of person logging in the work order request into LIMS:

**ENV ESR FORM 1001** version 2.0

### Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: Stillwater

Collected by: Brenda / Corey

Generated: 09/18/2023 16:44

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023164451

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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### Final Report **Analytical Results**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: Stillwater

Collected By: Brenda / Corey

Generated: 09/18/23 16:44

Collector ID: None

MDH Sample Number: 23I0419-01

Location ID: CHD W124 SS

Collect Date: 09/11/23 Collect Time: 14:00

Field Residual Chlorine Result: 0.19 Field Fluoride Result: None

Field Name: None Sampling Point: None QA Type: None

Matrix: Drinking Water

Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:34	SM 2540 D 22nd ED
Microbiological Param	neters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	(-/	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	13.3	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:23	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:23	EPA 200.7
Manganese	Z-01b	28.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:23	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:23	EPA 200.8

FINAL REPORT

Report ID: 09182023164451

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### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Location ID: CHD E101 SS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Units

Batch

Prepared

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-02

Collect Date: 09/11/23

Collect Time: 14:10 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.28

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	29.2	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:26	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:25	EPA 200.7
Manganese	Z-01b	27.0	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:26	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:26	EPA 200.8

FINAL REPORT Report ID: 09182023164451

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Location ID: CHD E213

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Units

Batch

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-03

Collect Date: 09/11/23

Collect Time: 14:17
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.26

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Qualifier(s)

Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:34	SM 2540 D 22nd ED
Microbiological Parameters	S							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	. ( )	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	27.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:35	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:27	EPA 200.7
Manganese	Z-01b	27.0	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:35	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:35	EPA 200.8

FINAL REPORT

Report ID: 09182023164451

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Collector ID: None

Location ID: CHD W 236

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-04

Collect Date: 09/11/23

Collect Time: 14:23
Matrix: Drinking Water

Reporting

Result

Absent

Field Residual Chlorine Result: 0.53

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

09/12/23 11:09 SM 9223 B 22nd

Sampling Point: None QA Type: None

Analyte

Coliform, Total

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

Units

/100mL

Batch

B3I1009

Prepared

09/11/23 17:05

### **Microbiological Parameters**

Analyte

								ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	21.1	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:38	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1092	09/14/23 07:09	09/14/23 12:29	EPA 200.7
Manganese	Z-01b	27.0	10.0	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:38	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 15:38	EPA 200.8

FINAL REPORT Report ID: 09182023164451

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### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Location ID: CHD W321

Field Name: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-05

Collect Date: 09/11/23

Collect Time: 14:29
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.18

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Prepared

Sampling Point: None
QA Type: None

Analyte

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

### **General Chemistry Parameters**

	Qualifier(s)		Limit					
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:35	SM 2540 D 22nd ED
Microbiological Parameters	S							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ´	19.7	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 15:53	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 12:42	EPA 200.7
Manganese	Z-01b	26.6	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 15:53	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 15:53	EPA 200.8

FINAL REPORT

Report ID: 09182023164451

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-06

Location ID: CHD E 317 not stainless

Analyte

Field Name: None Sampling Point: None QA Type: None

Analyte

Coliform, Total

Collect Date: 09/11/23
Collect Time: 14:36
Matrix: Drinking Water

Reporting

Result

Absent

11/23 Field Residual Chlorine Result: 1.16 36 Field Fluoride Result: None

Prepared

09/11/23 17:05

Field pH Result: None
Field PO4 Result: None

Analyzed

Method

09/12/23 11:09 SM 9223 B 22nd

Results were produced by the Minnesota Department of Health, except where noted.

Units

/100mL

Batch

B3I1009

### **Microbiological Parameters**

								ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	13.9	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 15:56	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:15	EPA 200.7
Manganese	Z-01b	27.3	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 15:56	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 15:56	EPA 200.8

FINAL REPORT Report ID: 09182023164451

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### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Location ID: CHD E 416

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Units

Batch

Prepared

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-07

Collect Date: 09/11/23

Collect Time: 14:41 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.18

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	167	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:51	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:17	EPA 200.7
Manganese	Z-01b	20.6	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:51	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:51	EPA 200.8

FINAL REPORT Report ID: 09182023164451

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-08

Collect Date: 09/11/23

Collect Time: 14:49
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.22

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Prepared

Field Name: None Sampling Point: None QA Type: None

Analyte

Location ID: CHD W 427

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

### **General Chemistry Parameters**

Analyte

Analyte	Oualifier(s)	Result	Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:35	SM 2540 D 22nd ED
Microbiological Parameter	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	- ()	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b ´	19.5	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:05	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:19	EPA 200.7
Manganese	Z-01b	27.0	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:05	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:05	EPA 200.8

FINAL REPORT

Report ID: 09182023164451

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Collector ID: None

Field Name: None

QA Type: None

Analyte

Location ID: CHD W538

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-09

Collect Date: 09/11/23

Collect Time: 14:56
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.25

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

### **Microbiological Parameters**

Analyte

Coliform, Total	· · · · · · · · · · · · · · · · · · ·	Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	51.0	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:08	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:20	EPA 200.7
Manganese	Z-01b	24.9	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:08	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:08	EPA 200.8

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Location ID: CHD E 510

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Units

Batch

Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-10

Collect Date: 09/11/23

Collect Time: 15:03

Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.80

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

### **General Chemistry Parameters**

Analyte

Solids, Suspended	Z-01	<	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:35	SM 2540 D 22nd ED
Microbiological Parar	neters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1009	09/11/23 17:05	09/12/23 11:09	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01b	63.3	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:11	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:22	EPA 200.7
Manganese	Z-01b	28.2	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:11	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:11	EPA 200.8

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### Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

**Batch Summary** 

Samples in Batch: B3I1009 - Microbiology Prep

2310419-01

2310419-02 2310419-09 2310419-03 2310419-10 2310419-04

2310419-05

2310419-06

2310419-07

Samples in Batch: B3I1034 - EPA 200 Series Prep

2310419-01

2310419-08

2310419-02

2310419-03

2310419-04

Samples in Batch: B3I1035 - EPA 200 Series Prep

2310419-05

2310419-06

2310419-08

2310419-09

2310419-10

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310419-07

Samples in Batch: B3I1074 - General Chemistry Prep

2310419-01

2310419-03

2310419-05

2310419-08

2310419-10

Samples in Batch: B3I1092 - Metals Prep

2310419-01

2310419-02

2310419-03

2310419-04

Samples in Batch: B3I1093 - Metals Prep

2310419-05

2310419-06

2310419-07

2310419-08

2310419-09

2310419-10

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### Final Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Batch B3I1074 - General Chemistry Prep

Facility Name/ID: 1820002

City: Stillwater

Collected By: Brenda / Corey

Generated: 09/18/23 16:44

Results were produced by Minnesota Department of Health, except where noted.

#### Blank (B3I1074-BLK1) Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:29 RPD Analyte Reporting Spike Source Result %REC %REC Limits **RPD** Analyte Units Solids, Suspended mg/L 1.0 Duplicate (B3I1074-DUP1) Source: 23I0410-05 Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:30 Source **RPD** Analyte Reporting Spike Analyte Result Units %REC %REC Limits RPD Qualifier(s Limit Solids, Suspended Z-01 mg/L 5 1.0 Duplicate (B3I1074-DUP2) Source: 23I0410-06 Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:31

	Analyte		Reporting		Spike	Source	0/550	0/DE01: "	DDD	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Solids, Suspended	Z-01	<	1.0	mg/L		<				5

Reference (B3I1074-SRM1)		Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:30									
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Solids, Suspended	(c)	66.00	2.5	mg/L	64.4		102	79.7-107			

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### Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 14:19

Program Name: Special Investigation

Batch B3I1034 - EPA 200 Series Prep

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: Stillwater

Collector ID: None

Blank (B3I1034-BLK1)

Generated: 09/18/23 16:44

### Results were produced by Minnesota Department of Health, except where noted.

							,			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	,	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1034-BS1)				Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	(-)	51.5		ug/L	50		103	85-115		
Lead		50.0		ug/L	50		100	85-115		
Manganese		50.7		ug/L	50		101	85-115		
Duplicate (B3I1034-DUP1)		Source: 2310	)410-08	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 14:33		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	. ( )	2.66	10.0	ug/L		<			2	20
Lead		<	1.00	ug/L		<				20
Manganese		25.9	10.0	ug/L		26.6			3	20
Duplicate (B3I1034-DUP2)		Source: 2310	)419-02	Prepare	ed: 09/12/23	11:03 Anal	yzed: 09/13/2	3 15:29		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		27.9	10.0	ug/L		29.2			4	20
Lead		<	1.00	ug/L		<				20

ug/L

Units

ug/L

ug/L

ug/L

Source: 23I0419-02

26.9

Source: 23I0410-08

Result

51.0

48.3

76.2

10.0

Reporting

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Manganese

Analyte

Manganese

Copper

Lead

Matrix Spike (B3I1034-MS1)

Matrix Spike (B3I1034-MS2)

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%REC Limits

70-130

70-130

70-130

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27.0

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 14:36

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 15:32

%REC

97

97

99

Source

Spike

50

50

50

Stefan Sacons

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Analyte

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0.5

**RPD** 

Report ID: 09182023164451

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RPD

### Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Batch B3I1034 - EPA 200 Series Prep

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None

Generated: 09/18/23 16:44

Results were produced by Minnesota Department of Health, except where noted.

Matrix Spike (B3I1034-MS2)		Source: 2310	0419-02	Prepare	d: 09/12/23	11:03 Anal	yzed: 09/13/2	3 15:32		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	2.3(-)	77.1		ug/L	50		96	70-130		
Lead		48.2		ug/L	50		96	70-130		
Manganese		77.0		ug/L	50		100	70-130		
Batch B3I1035 - EPA 200	Series Prep									
Blank (B3l1035-BLK1)				Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 15:47		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	Quaimer(s)	<	10.0	ug/L	Level	Resull				Limi
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1035-BS1)				Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 15:50		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	. ( )	50.2		ug/L	50		100	85-115		
Lead		49.3		ug/L	50		99	85-115		
Manganese		50.3		ug/L	50		101	85-115		
Duplicate (B3I1035-DUP1)		Source: 2310	)419-06	Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 15:59		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	Z(-)	14.0	10.0	ug/L		13.9			0.6	20
Lead		<	1.00	ug/L		<				20
Manganese		27.4	10.0	ug/L		27.3			0.6	20
Duplicate (B3I1035-DUP2)		Source: 2310	)426-03	Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 16:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead	(-)	<	1.00	ug/L		<				20
Manganese		2.26	10.0	ug/L		<			2	20
Duplicate (B3I1035-DUP3)		Source: 2310	)426-03RE1	Prepare	d: 09/15/23	8 08:33 Anal	yzed: 09/15/2	3 13:37		

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Report ID: 09182023164451

### Final Report **Quality Control**

Program Code: LS

Collector ID: None

Program Name: Special Investigation Collected By: Brenda / Corey

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

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Batch B3I1035 - EPA 200	Series Prep									
Duplicate (B3I1035-DUP3)		Source: 2310	)426-03RE1	Prepare	d: 09/15/23	08:33 Anal	yzed: 09/15/2	3 13:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<b></b> (-)	179	10.0	ug/L		178			0.6	20
Matrix Spike (B3I1035-MS1)		Source: 2310	)419-06	Prepare	d: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		
Manganese		77.3		ug/L	50		100	70-130		
Matrix Spike (B3I1035-MS2)		Source: 2310	)426-03	Prepare	d: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		51.9		ug/L	50		104	70-130		
Manganese		52.7		ug/L	50		101	70-130		
Matrix Spike (B3I1035-MS3)		Source: 2310	)426-03RE1	Prepare	d: 09/15/23	08:33 Anal	yzed: 09/15/2	3 13:40		
Analyte	Analyte	Result	Reporting	Units	Spike	Source	%REC	%REC Limits	RPD	RPD
Copper	Qualifier(s)	225	Limit	ug/L	Level 50	Result	94	70-130	THE D	Limit
Batch B3I1065 - EPA 200	Series Prep									
Blank (B3l1065-BLK1)				Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:16		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	V1	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
Blank (B3l1065-BLK2)				Prepare	d: 09/13/23	08:48 Anal	yzed: 09/15/2	3 14:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	,	<	10.0	ug/L						
Lead		<	1.00	ug/L						
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### Final Report Quality Control

Program Code: LS

Collector ID: None

Program Name: Special Investigation Collected By: Brenda / Corey

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

Results were produced by Minnesota Department of Health, except where noted.

LCS (B3I1065-BS1)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 17:19		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	V1	51.0		ug/L	50		102	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		51.1		ug/L	50		102	85-115		
LCS (B3I1065-BS2)				Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/15/2	23 14:09		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	Quaimer(s)	49.0	Limit	ug/L	50	Result	98	85-115		Limii
Lead		48.7		ug/L	50		97	85-115		
Duplicate (B3I1065-DUP1)		Source: 2310	1409-03	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 17:28		
A I. 4 .	Analyte	D !t	Reporting	11.26	Spike	Source	0/ DEO	0/ DEO Liveite	DDD	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Lead		<	1.00	ug/L		<				20
Manganese		49.2	10.0	ug/L		48.1			2	20
Duplicate (B3I1065-DUP2)		Source: 2310	427-06	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 18:03		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	2, (- )	304	10.0	ug/L		302			0.7	20
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	23 14:18		
Analyta	Analyte	Dogult	Reporting	Units	Spike	Source	%REC	%REC Limits	RPD	RPD
Analyte	Qualifier(s)	Result	Limit		Level	Result	70REC	%REC LIMITS		Limit
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3I1065-MS1)		Source: 2310	409-03	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	23 17:31		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		49.4		ug/L	50		99	70-130		
Manganese		98.0		ug/L	50		100	70-130		

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### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200 Series Prep
-------------------------------------

Matrix Spike (B3I1065-MS2)	Source: 23I0427-06		Prepared: 09/13/23 08:48 Analyzed: 09/13/23 18:06							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	348		ug/L	50		93	70-130		
Lead		53.1		ug/L	50		106	70-130		
Manganese		62.6		ug/L	50		99	70-130		
Matrix Spike (B3I1065-MS3)		Source: 23I0	Prepared: 09/15/23 08:33 Analyzed: 09/15/23 14:21							
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		47.7		ug/L	50		94	70-130		
Lead		49.9		ug/L	50		100	70-130		
Batch B3I1092 - Metals Prep										
Blank (B3I1092-BLK1)				Prepare	ed: 09/13/23	3 16:16 Anal	lyzed: 09/14/2	23 10:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	<	20.0	ug/L						
LCS (B3I1092-BS1)				Prepare	ed: 09/13/23	3 16:16 Anal	lyzed: 09/14/2	23 10:10		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	(-)	1000		ug/L	1,000		100	85-115		
Duplicate (B3I1092-DUP1)		Source: 23I0	410-06	Prepared: 09/13/23 16:16 Analyzed: 09/14/23 11:44						
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	<	20.0	ug/L		<				20
Duplicate (B3I1092-DUP2)		Source: 23I0418-03		Prepared: 09/13/23 16:16 Analyzed: 09/14/23 12:10						
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	. ,	5.70	20.0	ug/L		<			9	20
Matrix Spike (B3I1092-MS1)		Source: 23l0	410-06	Prepare	ed: 09/13/23	3 16:16 Anal	lyzed: 09/14/2	23 11:46		

FINAL REPORT

Report ID: 09182023164451

Authorized by:

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: Stillwater

Collector ID: None

Generated: 09/18/23 16:44

### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1092 - Metals P	rep	-	·			•					
Matrix Spike (B3I1092-MS1)		Source: 23I0410-06		Prepared: 09/13/23 16:16 Analyzed: 09/14/23 11:46							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron	- ( )	941		ug/L	1,000		94	85-115			
Matrix Spike (B3I1092-MS2)		Source: 2310	Prepared: 09/13/23 16:16 Analyzed: 09/14/23 12:12								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron		899		ug/L	1,000		89	85-115			
Batch B3I1093 - Metals P	rep										
Blank (B3I1093-BLK1)				Prepare	d: 09/13/23	16:17 Anal	lyzed: 09/14/2	3 12:38			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron	- ( )	<	20.0	ug/L							
LCS (B3I1093-BS1)				Prepare	d: 09/13/23	16:17 Anal	lyzed: 09/14/2	3 12:40			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron	- ( )	951		ug/L	1,000		95	85-115			
Duplicate (B3I1093-DUP1)		Source: 2310	1419-05	Prepare	d: 09/13/23	16:17 Anal	lyzed: 09/14/2	3 12:44			
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron	`,	<	20.0	ug/L		<				20	
Duplicate (B3I1093-DUP2)		Source: 2310	420-05	Prepare	d: 09/13/23	16:17 Anal	lyzed: 09/14/2	3 13:37			
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron	.,	9.46	20.0	ug/L		<			15	20	
Matrix Spike (B3I1093-MS1)		Source: 2310	419-05	Prepare	d: 09/13/23	16:17 Anal	lyzed: 09/14/2	3 13:13			
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Iron	.,	914		ug/L	1,000		91	85-115			

FINAL REPORT

Report ID: 09182023164451

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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### Final Report **Quality Control**

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/18/23 16:44

Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1093 - Metals Prep

Program Name: Special Investigation Collected By: Brenda / Corey

Source: 23I0420-05 Matrix Spike (B3I1093-MS2) Prepared: 09/13/23 16:17 Analyzed: 09/14/23 13:39

Analyte	Analyte Qualifier(s)	Reporting Result Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	33.3(-)	1010	ua/L	1.000		101	85-115		

FINAL REPORT

Report ID: 09182023164451

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### Final Report Quality Control

### **Data Qualifiers and Definitions**

Z-01b Sample was collected in a 250 mL container.

Z-01a Sample was collected in a 1 L container.

Z-01 Filter contains <2.5 mg of residue.

V1 Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT

The results in this report apply only to the samples analyzed.

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Authorized by:

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/28/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0420

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

http://www.health.mn.us/divs/phl/environmental

## Amended Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

Collected By: Lucas Martin

City: Stillwater

Collector ID: None Generated: 09/28/23 14:35

Work Order Comment: Trip Blanks recd for EDB & VOCs SP09 & 10 added. SP09 cancelled, no EDB detects in samples, Trip Blank not analyzed per 504.1. Unlabeled carbamates container assigned as SP08, analyzed & qualified per M. Kunas. BNA 525.2 lab error for SP07, cancelled.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Admin - Warden's Office	2310420-01	Drinking Water	09/11/23 13:55	09/11/23 16:30	19.9
Admin - master control	2310420-02	Drinking Water	09/11/23 14:07	09/11/23 16:30	19.9
Admin - Lobby	2310420-03	Drinking Water	09/11/23 14:13	09/11/23 16:30	19.9
Admin - 2nd floor	2310420-04	Drinking Water	09/11/23 14:24	09/11/23 16:30	19.9
Admin - 3rd Floor	2310420-05	Drinking Water	09/11/23 14:38	09/11/23 16:30	19.9
Well #3	2310420-06	Drinking Water	09/11/23 15:00	09/11/23 16:30	19.9
Well #2	2310420-07	Drinking Water	09/11/23 15:20	09/11/23 16:30	19.9
Treatment Plant	2310420-08	Drinking Water	09/11/23 15:40	09/11/23 16:30	19.9
Trip Blank	2310420-10	Drinking Water	09/11/23 13:55	09/11/23 16:30	19.9

Loc ID	MDH Sample Number	Receiving Comments
Well #2	2310420-07	Lab error for BNA 525.2 analysis, cancelled. CAD

FINAL REPORT Report ID: 09282023143535

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Collection ID   Collection Date   Collection Time   Collection Name   Sample 11 HDPE								
Admin-Indexis Affice 9/11/23 1:55 pm Collection Name Proper Impresent Admin-Indexis Affice 9/11/23 2:07 pm Dw	(D	-			Sample	1L HDPE		
Relinquished by/Affiliation	# Location ID	Collection Date	Collection Time	Collector Name	Type	unpreserved		Na2S2O3
Admin-Lobby 9/11/23 2:07/pm   DW		(1)	1:55 pm	Mas	DW	7		,
Admin-2nd Floor 9/11/23 2:13 pm Dw Zoc/vo Dw Soc/vo Dw S	2 Adria-Mosts Costa	1 4/1/23	- 1 7		DW			56
Admin - 2nd floor   9/11/23   2:38pm   Dw   2   1/1 dm   2   2   1/1 dm   2   3:00 pm   Dw   50c/vo   1/1 dm   2   3:00 pm   Dw   50c/vo   Dw   50c/vo   Dw   50c/vo   Dw   50c/vo   Dw   50c/vo   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	3 Admin-Lobby	87/11/23	12.		DW			_
1) dm - 3/4 flas	Admin-Inde	10/			DW			
Chell # 3   9/h/23   3:00 pm   Dw   50c/   Chell # 2   9/h/23   3:29pm   Dw   50c/   Treatment Plant   9/h/23   3:40 pm   Dw   Dw     Treatment Plant   9/h/23   3:40 pm   Dw     Dw   50c/vo   Dw     Dw   50c/vo     Dw   50c/vo     Dw   Dw     Dw   Dw     Dw   Dw     Dw   Dw	1 dm 3rd fla	'II /i	2:38ph		DW	7		
We   1	2 th	<u></u>	3:00 pm		DW	(200)	VO	VOC/1, 4-Plosage
Treatment Plant   9/h/23   3 / 4/6 pm	×	)	3120pm		DW	-	VOC	11,4-Die
Relinquished by/Affilaition  Date Time  Accepted by/Affiliation	8 Treatment Plant	<u> </u>	3:40 pm		DW	Soc/vou	11,1	120/x9-1/1
Relinquished by/Affiliation  Date Time  Accepted by/Affiliation	9	,			DW	,	, ,	, ,
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Page 4 of 59
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# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



SEP11'23 16:30

Parcel Information	Date & time of receipt:
Courier: ₩Walk-in ☐ FedEx ☐ Spee-Dee ☐ UPS ☐ USF	S 🗆 Other courier
Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Fre	ezer (185) ( ) Unrefrigerated
Parcel: □ Styrofoam/cardboard cooler □	
□ None □ Other COULY 2 0₽	2 mixed
Custody seals present: No ☐ Yes, If "Yes" Custody seals in	
Custody seal #	The state of the s
Packaging & Temperatur	e Information
Packing material: Bubble wrap ☐ Styrofoam ☐ Paper	None Other
Cooling material:  Wet ice (loose) □ Wet ice pack #( )	
☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( )	
Condition of cooling material: ☐ Solid Peartially frozen ☐	Liquid; Liquid temperature:°C
Representative sample temperature: °C IR thermo	
Evidence of freezing:  Yes No	, ,
nitials of person receiving parcel:	
Chain of Custody, Sample Containe	, & Analysis Information
Chain of Custody received: XYes	
Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Bio	ogical Priority/Emergency 🗆 Unknown
All containers unique to Chain of Custody: Yes	- T 200
All containers collected prior to expiration date: ✓ Yes □ No	□ Unknown
All containers received intacty Yes  No	
All containers received per COC submission Yes No	
All containers are appropriate for requested analysis: Yes	No 🗆 Unknown
All analysis received within specified holding time: Yes \( \subseteq \text{No.} \)	Unknown
Rad Chem. request received:  Yes No, If "Yes" sample surve	ey results: $\square$ < 0.5 mrem/hr $\square$ $\geq$ 0.5 mrem/hr
Rad Chem. meter calibration date verified:   Yes	
	^

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request into LIMS:



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11'23 16	:30
Courier:   Walk-in □ FedEx □ Spee-Dee □ UPS □ USPS □ Other courier  Tracking #	
Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Unrefrigerated  Parcel: ☐ Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can	
None Other COOLER 1082, mixed	-
Custody seals present:  Yes, If "Yes" Custody seals intact:  Yes  No	
Custody seal # Evidentiary samples identified: No 🗆 Yo	es
Packaging & Temperature Information	
Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper  None ☐ Other	
Cooling material: ☐ Wet ice (loose) ☐ Wet ice pack #( ) ☐ Gel pack #( ) ☐ Dry ice ☐ None	
☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Other	
Condition of cooling material: Solid ☐ Partially frozen ☐ Liquid; Liquid temperature:°C ☐ N	/A
Representative sample temperature: 19.9 °C IR thermometer used: 49	
Evidence of freezing:   Yes No	
nitials of person receiving parcel:	
Chain of Custody, Sample Container, & Analysis Information	
Chain of Custody received: Yes 🗆 No	
Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Biological ☐ Priority/Emergency ☐ Unknown	
All containers unique to Chain of Custody: Yes  No	
All containers collected prior to expiration date: Ves   No Unknown	
All containers received intact: No	
All containers received per COC submission: Yes 🗆 No	
All containers are appropriate for requested analysis: Yes	
All analysis received within specified holding time: Ses	
Rad Chem. request received: $\square$ Yes No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr	
Rad Chem. meter calibration date verified:   Yes	
^	

**ENV ESR FORM 1001** version 2.0

Initials of person logging in the work order request into LIMS:

## Amended Report Case Narrative

Program Code: LS Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation Facility Name: 1820002

Collected by: Lucas Martin City: Stillwater

Collector ID: None Generated: 09/28/2023 14:35

Supplement to Test Report ID: 09182023164216

The HAA analysis for SP -08 was reanalyzed within holding time requirements due to an expired standard used on the original sample results. Amended report issued to reflect this reanalysis, and all other sample results remain the same as originally reported.

FINAL REPORT Report ID: 09282023143535

Authorized by:

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Admin - Warden's Office

Collected By: Lucas Martin

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-01

Collect Date: 09/11/23

Collect Time: 13:55

Matrix: Drinking Water

Field Residual Chlorine Result: 1.02

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	1.2	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:36	SM 2540 D 22nd ED
Microbiological Parameters	i							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1012	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01d	55.4	10.0	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:36	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:24	EPA 200.7
Manganese	Z-01d	13.3	10.0	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:36	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:36	EPA 200.8

FINAL REPORT Report ID: 09282023143535

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Admin - master control

Collected By: Lucas Martin

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-02

Collect Date: 09/11/23

Collect Time: 14:07

Matrix: Drinking Water

Field Residual Chlorine Result: 0.84

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01d	14.1	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:04	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:26	EPA 200.7
Manganese	Z-01d	23.4	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:04	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:04	EPA 200.8

FINAL REPORT Report ID: 09282023143535

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-03

Collect Date: 09/11/23

Collect Time: 14:13

Matrix: Drinking Water

Field Residual Chlorine Result: 0.83

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Field Name: None
Sampling Point: None
QA Type: None

Location ID: Admin - Lobby

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1012	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01d	95.0	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:07	EPA 200.8
Iron	Z-01d	25.2	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:27	EPA 200.7
Manganese	Z-01d	42.3	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:07	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:07	EPA 200.8

FINAL REPORT Report ID: 09282023143535

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Admin - 2nd floor

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-04

Collect Date: 09/11/23

Collect Time: 14:24
Matrix: Drinking Water

Field Residual Chlorine Result: 0.75

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1012	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01d	67.0	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:10	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:30	EPA 200.7
Manganese	Z-01d	20.8	10.0	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:10	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B3I1033	09/12/23 10:59	09/13/23 14:10	EPA 200.8

FINAL REPORT Report ID: 09282023143535

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Admin - 3rd Floor

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-05

Collect Date: 09/11/23

Collect Time: 14:38

Matrix: Drinking Water

Field Residual Chlorine Result: 1.04

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Sampling Point: None QA Type: None

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	1.2	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:36	SM 2540 D 22nd ED
Microbiological Paramet	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1012	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01c	49.6	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:54	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:35	EPA 200.7
Manganese	Z-01d	13.6	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:54	EPA 200.8
Lead	Z-01c	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:54	EPA 200.8

FINAL REPORT Report ID: 09282023143535

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #3

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-06

Collect Date: 09/11/23

Collect Time: 15:00

Matrix: Drinking Water

Reporting

Limit 70-130

Result

113

Analyte

Qualifier(s)

Field Residual Chlorine Result: None

Field Pluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

09/12/23 21:05

Method

EPA 515.4

Results were produced by the Minnesota Department of Health, except where noted.

Units

%

Batch

B3I1014

Prepared

09/12/23 07:44

#### Herbicides by GC/ECD

Surrogate: Bromopropionic Acid

2,4,5-TP (Silvex)		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
2,4-D		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Dalapon		<	5.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Dinoseb		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Pentachlorophenol (PCP)	V1	<	0.080	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Picloram		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
VOCs by GCMS								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		108	70-130	%	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Surrogate: 4-Bromofluorobenzene		96	70-130	%	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		117	70-130	%	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2,3-Trichlorobenzene		<	1.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3

0.50

0.50

0.50

2.0

<

<

ug/L

ug/L

ug/L

ug/L

B3I1020

B3I1020

B3I1020

B3I1020

09/12/23 13:28

09/12/23 13:28

09/12/23 13:28

09/12/23 13:28

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FINAL REPORT

(DBCP)

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1,2-Dibromo-3-chloropropane

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09/12/23 13:28

09/12/23 13:28

09/12/23 13:28

09/12/23 13:28

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EPA 524.3

EPA 524.3

EPA 524.3

EPA 524.3

## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #3

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 2310420-06

Collect Date: 09/11/23

Collect Time: 15:00

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

## **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,2-Dibromoethane (EDB)		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,3,5-Trimethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,3-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,3-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,4-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
2,2-Dichloropropane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
2-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
4-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Acetone	V1	<	20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Allyl chloride		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Benzene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromochloromethane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromodichloromethane		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromoform		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromomethane	V1	<	1.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Carbon tetrachloride		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chlorodibromomethane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chloroethane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chloroform		0.14	0.10	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chloromethane		<	1.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
cis-1,2-Dichloroethene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
cis-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
FINAL REPORT							Report ID	: 0928202314353

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #3

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 2310420-06

Collect Date: 09/11/23

Collect Time: 15:00

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

## **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Dibromomethane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Dichlorodifluoromethane		<	1.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Dichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Ethyl ether		<	2.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Ethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Hexachlorobutadiene		<	1.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Isopropylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Methyl ethyl ketone (MEK)		<	10	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Methylene chloride		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Naphthalene		<	1.0	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
n-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
n-Propylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
o-Xylene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
p and m-Xylene		<	0.30	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
p-Isopropyltoluene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
sec-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Styrene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
tert-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Tetrachloroethene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Tetrahydrofuran (THF)		<	10	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Toluene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
trans-1,2-Dichloroethene		<	0.10	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
trans-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Trichloroethene (TCE)		<	0.10	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Trichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
FINAL REPORT							Report ID	: 0928202314353

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #3

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-06

Collect Date: 09/11/23

Collect Time: 15:00
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

## **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Vinyl chloride		<	0.20	ug/L	B3I1020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,4-Dioxane								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,4-Dioxane		<	0.050	ug/L	B3I1032	09/12/23 10:53	09/12/23 16:33	MDH 522
BNAs, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Technical Chlordane	T4	<	0.11	ug/L	B3I1138	09/15/23 08:13	09/15/23 13:41	EPA 505
Toxaphene	M1, T4	<	0.86	ug/L	B3I1138	09/15/23 08:13	09/15/23 13:41	EPA 505
Surrogate: 1,3-Dimethyl-2-nitrobenzene	T4, Z-01b	100	70-130	%	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Surrogate: Perylene-d12	Z-01b, T4	100	70-130	%	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Surrogate: Triphenyl Phosphate	Z-01b, T4	108	70-130	%	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Alachlor	Z-01b, T4	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Aldrin	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Atrazine	Z-01b, T4	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Benzo[a]pyrene	T4, Z-01b	<	0.020	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Butachlor	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Di(2-ethylhexyl) adipate	T4, Z-01b	<	0.60	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Di(2-ethylhexyl) phthalate	T4, Z-01b	<	0.60	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Dieldrin	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Endrin	T4, Z-01b	<	0.010	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
g-BHC (Lindane)	Z-01b, T4	<	0.020	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Heptachlor	T4, Z-01b	<	0.040	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Heptachlor epoxide	T4, Z-01b	<	0.020	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Hexachlorobenzene	Z-01b, T4	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Hexachlorocyclopentadiene	Z-01b, T4	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
FINAL REPORT							Report ID	09282023143535

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #3

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 2310420-06

Collect Date: 09/11/23

Collect Time: 15:00

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **BNAs, SDWA - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Methoxychlor	T4, Z-01b	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Metolachlor	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Metribuzin	Z-01b, T4	<	0.50	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Propachlor	Z-01b, T4	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Simazine	Z-01b, T4	<	0.070	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Carbamates, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: BDMC		93	70-130	%	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
3-Hydroxycarbofuran		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Aldicarb		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Aldicarb sulfone		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Aldicarb sulfoxide		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Carbaryl		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Carbofuran		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Methomyl		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Oxamyl		<	0.50	ug/L	B3I1011	09/12/23 13:13	09/12/23 13:13	EPA 531.2
Glyphosate, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Glyphosate		<	5.0	ug/L	B3I1010	09/12/23 10:03	09/12/23 10:03	EPA 547

FINAL REPORT

Report ID: 09282023143535

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #2

Sampling Point: None

Field Name: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-07

Collect Date: 09/11/23

Collect Time: 15:20

Matrix: Drinking Water

Reporting

Limit 70-130

1.0

Result

111

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

09/12/23 21:38

09/12/23 21:38

Method

EPA 515.4

EPA 515.4

QA Type: None

Receiving Comments: Lab error for BNA 525.2 analysis, cancelled. CAD

Analyte

Qualifier(s)

Results were produced by the Minnesota Department of Health, except where noted.

Units

%

ug/L

Batch

B3I1014

B3I1014

B3I1020

B3I1020

ug/L

ug/L

Prepared

09/12/23 07:44

09/12/23 07:44

#### Herbicides by GC/ECD

Surrogate: Bromopropionic Acid

Analyte

2,4,5-TP (Silvex)

,				J.				
2,4-D		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Dalapon		<	5.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Dinoseb		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Pentachlorophenol (PCP)	V1	<	0.080	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Picloram		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
VOCs by GCMS								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		109	70-130	%	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Surrogate: 4-Bromofluorobenzene		96	70-130	%	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		119	70-130	%	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,3-Trichlorobenzene		<	1.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,3-Trichloropropane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,4-Trichlorobenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3

0.50

2.0

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FINAL REPORT

(DBCP)

1,2,4-Trimethylbenzene

1,2-Dibromo-3-chloropropane

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09/12/23 13:55

09/12/23 13:55

09/12/23 13:55

09/12/23 13:55

Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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EPA 524.3

EPA 524.3

## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #2

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-07

Collect Date: 09/11/23

Collect Time: 15:20

Matrix: Drinking Water

Field Fluoride Result: None Field pH Result: None

Field Residual Chlorine Result: None

Field PO4 Result: None

Receiving Comments: Lab error for BNA 525.2 analysis, cancelled. CAD

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,2-Dibromoethane (EDB)		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,3,5-Trimethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,3-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,3-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,4-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
2,2-Dichloropropane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
2-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
4-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Acetone	V1	<	20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Allyl chloride		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Benzene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Bromobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Bromochloromethane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Bromodichloromethane		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Bromoform		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Bromomethane	V1	<	1.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Carbon tetrachloride		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Chlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Chlorodibromomethane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Chloroethane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Chloroform		0.10	0.10	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Chloromethane		<	1.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
cis-1,2-Dichloroethene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
cis-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
FINAL REPORT							Report ID:	: 0928202314353

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #2

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-07

Collect Date: 09/11/23

Collect Time: 15:20

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None

Field PO4 Result: None

Receiving Comments: Lab error for BNA 525.2 analysis, cancelled. CAD

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Dibromomethane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Dichlorodifluoromethane		<	1.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Dichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Ethyl ether		<	2.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Ethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Hexachlorobutadiene		<	1.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Isopropylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Methyl ethyl ketone (MEK)		<	10	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Methylene chloride		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Naphthalene		<	1.0	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
n-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
n-Propylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
o-Xylene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
p and m-Xylene		<	0.30	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
p-Isopropyltoluene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
sec-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Styrene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
tert-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Tetrachloroethene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Tetrahydrofuran (THF)		<	10	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Toluene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
trans-1,2-Dichloroethene		<	0.10	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
trans-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Trichloroethene (TCE)		<	0.10	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Trichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Location ID: Well #2

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-07

Collect Date: 09/11/23

Collect Time: 15:20

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None

Field PO4 Result: None

Receiving Comments: Lab error for BNA 525.2 analysis, cancelled. CAD

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Vinyl chloride	Qualifier(3)	<	0.20	ug/L	B3I1020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,4-Dioxane								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,4-Dioxane		<	0.050	ug/L	B3I1032	09/12/23 10:53	09/12/23 17:06	MDH 522
BNAs, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Technical Chlordane	T4	<	0.10	ug/L	B3I1138	09/15/23 08:13	09/15/23 14:01	EPA 505
Toxaphene	T4	<	0.82	ug/L	B3I1138	09/15/23 08:13	09/15/23 14:01	EPA 505
Carbamates, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: BDMC		95	70-130	%	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
3-Hydroxycarbofuran		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Aldicarb		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Aldicarb sulfone		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Aldicarb sulfoxide		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Carbaryl		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Carbofuran		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Methomyl		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Oxamyl		<	0.50	ug/L	B3I1011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Glyphosate, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Glyphosate		<	5.0	ug/L	B3I1010	09/12/23 10:12	09/12/23 10:12	EPA 547

FINAL REPORT Report ID: 09282023143535

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-08

Collect Date: 09/11/23

Collect Time: 15:40

Matrix: Drinking Water

Reporting

Limit 70-130

Result

112

Analyte

Qualifier(s)

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

09/12/23 22:11

Method

EPA 515.4

Results were produced by the Minnesota Department of Health, except where noted.

Units

%

Batch

B3I1014

Prepared

09/12/23 07:44

#### Herbicides by GC/ECD

Surrogate: Bromopropionic Acid

3								
2,4,5-TP (Silvex)		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
2,4-D		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Dalapon		<	5.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Dinoseb		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Pentachlorophenol (PCP)	V1	<	0.080	ug/L	B3I1014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Picloram		<	1.0	ug/L	B3I1014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
EDB & DBCP, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,2-Dibromo-3-chloropropane (DBCP)		<	0.01	ug/L	B3I1018	09/12/23 09:07	09/12/23 16:06	EPA 504.1
1,2-Dibromoethane (EDB)		<	0.01	ug/L	B3I1018	09/12/23 09:07	09/12/23 16:06	EPA 504.1
VOCs by GCMS								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: 1,2-Dichlorobenzene-d4		109	70-130	%	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Surrogate: 4-Bromofluorobenzene		94	70-130	%	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		124	70-130	%	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-08

Collect Date: 09/11/23

Collect Time: 15:40
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,2,3-Trichlorobenzene		<	1.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2,3-Trichloropropane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2,4-Trichlorobenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2,4-Trimethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2-Dibromo-3-chloropropane (DBCP)		<	2.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2-Dibromoethane (EDB)		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,2-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,3,5-Trimethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,3-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,3-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,4-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
2,2-Dichloropropane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
2-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
4-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Acetone	V1	<	20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Allyl chloride		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Benzene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Bromobenzene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Bromochloromethane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Bromodichloromethane		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Bromoform		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Bromomethane	V1	<	1.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Carbon tetrachloride		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3

FINAL REPORT

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-08

Collect Date: 09/11/23

Collect Time: 15:40

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Chlorodibromomethane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chloroethane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chloroform		0.30	0.10	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chloromethane		<	1.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
cis-1,2-Dichloroethene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
cis-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Dibromomethane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Dichlorodifluoromethane		<	1.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Dichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Ethyl ether		<	2.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Ethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Hexachlorobutadiene		<	1.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Isopropylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methyl ethyl ketone (MEK)		<	10	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methylene chloride		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Naphthalene		<	1.0	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
n-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
n-Propylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
o-Xylene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
p and m-Xylene		<	0.30	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
p-Isopropyltoluene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
sec-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Styrene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
tert-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Tetrachloroethene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
FINAL REPORT							Report ID:	: 0928202314353

Authorized by:

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-08

Collect Date: 09/11/23

Collect Time: 15:40
Matrix: Drinking Water

Reporting

Limit

Result

Field Residual Chlorine Result: None

Prepared

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

#### **VOCs by GCMS - Continued**

Analyte

Qualifier(s)

	Qualifici (3)		Littlik					
Tetrahydrofuran (THF)		<	10	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Toluene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
trans-1,2-Dichloroethene		<	0.10	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
trans-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Trichloroethene (TCE)		<	0.10	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Trichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Vinyl chloride		<	0.20	ug/L	B3I1020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,4-Dioxane								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
1,4-Dioxane		<	0.050	ug/L	B3I1032	09/12/23 10:53	09/12/23 17:39	MDH 522
BNAs, SDWA								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Technical Chlordane	T4	<	0.10	ug/L	B3I1138	09/15/23 08:13	09/15/23 14:20	EPA 505
Toxaphene	T4	<	0.83	ug/L	B3I1138	09/15/23 08:13	09/15/23 14:20	EPA 505
Surrogate: 1,3-Dimethyl-2-nitrobenzene	T4, Z-01b	99	70-130	%	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Surrogate: Perylene-d12	T4, Z-01b	99	70-130	%	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Surrogate: Triphenyl Phosphate	T4, Z-01b	109	70-130	%	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Alachlor	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Aldrin	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Atrazine	T4, Z-01b	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Benzo[a]pyrene	T4, Z-01b	<	0.020	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Butachlor	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Di(2-ethylhexyl) adipate	T4, Z-01b	<	0.60	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Di(2-ethylhexyl) phthalate	T4, Z-01b	<	0.60	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Dieldrin	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
FINAL REPORT								

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-08

Collect Date: 09/11/23

Collect Time: 15:40

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **BNAs, SDWA - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Endrin	T4, Z-01b	<	0.010	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
g-BHC (Lindane)	T4, Z-01b	<	0.020	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Heptachlor	T4, Z-01b	<	0.040	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Heptachlor epoxide	T4, Z-01b	<	0.020	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Hexachlorobenzene	T4, Z-01b	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Hexachlorocyclopentadiene	T4, Z-01b	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Methoxychlor	T4, Z-01b	<	0.10	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Metolachlor	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Metribuzin	T4, Z-01b	<	0.50	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Propachlor	T4, Z-01b	<	0.20	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Simazine	T4, Z-01b	<	0.070	ug/L	B3I1106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Carbamates, SDWA								
Analyte	Analyte	Result	Reporting	Llucita	Datab	Danasad	A ll	
Analyte	Qualifier(s)	Result	Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: BDMC	Qualifier(s) F7, T5	95	Limit 70-130	%	B3I1011	09/12/23 17:24	09/12/23 17:24	Method EPA 531.2
						·	<u> </u>	
Surrogate: BDMC	F7, T5	95	70-130	%	B3I1011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran	F7, T5 F7, T5	95	70-130 0.50	% ug/L	<i>B3I1011</i> B3I1011	09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24	<i>EPA 531.2</i> EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb	F7, T5 F7, T5 F7, T5	95 <	70-130 0.50 0.50	% ug/L ug/L	<i>B3I1011</i> B3I1011  B3I1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb Aldicarb sulfone	F7, T5 F7, T5 F7, T5 F7, T5	95 < <	70-130 0.50 0.50 0.50	% ug/L ug/L ug/L	B3I1011 B3I1011 B3I1011 B3I1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb Aldicarb sulfone Aldicarb sulfoxide	F7, T5 F7, T5 F7, T5 F7, T5 F7, T5	95 < < <	70-130 0.50 0.50 0.50 0.50	% ug/L ug/L ug/L ug/L	B3I1011 B3I1011 B3I1011 B3I1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbaryl	F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5	95	70-130 0.50 0.50 0.50 0.50 0.50	% ug/L ug/L ug/L ug/L ug/L	B3I1011 B3I1011 B3I1011 B3I1011 B3I1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbaryl Carbofuran	F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5	95	70-130 0.50 0.50 0.50 0.50 0.50 0.50	% ug/L ug/L ug/L ug/L ug/L ug/L ug/L	B3/1011 B3/1011 B3/1011 B3/1011 B3/1011 B3/1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbaryl Carbofuran Methomyl	F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5	95	70-130 0.50 0.50 0.50 0.50 0.50 0.50	% ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	B3/1011 B3/1011 B3/1011 B3/1011 B3/1011 B3/1011 B3/1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2
Surrogate: BDMC 3-Hydroxycarbofuran Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbaryl Carbofuran Methomyl Oxamyl	F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5 F7, T5	95	70-130 0.50 0.50 0.50 0.50 0.50 0.50	% ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	B3/1011 B3/1011 B3/1011 B3/1011 B3/1011 B3/1011 B3/1011	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24 09/12/23 17:24	EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2 EPA 531.2

FINAL REPORT Report ID: 09282023143535

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Treatment Plant

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-08RE1

Collect Date: 09/11/23

Collect Time: 15:40

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### Haloacetic Acids, ICR

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: 2-Bromobutanoic Acid		80	70-130	%	B3I1304	09/22/23 09:33	09/26/23 13:32	EPA 552.3
Dibromoacetic Acid		<	1.0	ug/L	B3I1304	09/22/23 09:33	09/26/23 13:32	EPA 552.3
Dichloroacetic Acid		<	1.0	ug/L	B3I1304	09/22/23 09:33	09/26/23 13:32	EPA 552.3
Monobromoacetic Acid		<	1.0	ug/L	B3I1304	09/22/23 09:33	09/26/23 13:32	EPA 552.3
Monochloroacetic Acid		<	2.0	ug/L	B3I1304	09/22/23 09:33	09/26/23 13:32	EPA 552.3
Trichloroacetic Acid		<	1.0	ug/L	B3I1304	09/22/23 09:33	09/26/23 13:32	EPA 552.3

FINAL REPORT Report ID: 09282023143535

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Trip Blank

Sampling Point: None

QA Type: Trip Blank

Field Name: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-10

Collect Date: 09/11/23

Collect Time: 13:55

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared Analyzed		Method
Surrogate: 1,2-Dichlorobenzene-d4		110	70-130	%	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Surrogate: 4-Bromofluorobenzene		97	70-130	%	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		127	70-130	%	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2,3-Trichlorobenzene		<	1.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2,3-Trichloropropane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2,4-Trichlorobenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2,4-Trimethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2-Dibromo-3-chloropropane (DBCP)		<	2.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2-Dibromoethane (EDB)		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2-Dichloroethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,2-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,3,5-Trimethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,3-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,3-Dichloropropane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
1,4-Dichlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
2,2-Dichloropropane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
2-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
FINAL REPORT							Report ID	: 09282023143535

Authorized by:

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## Amended Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Location ID: Trip Blank

Sampling Point: None

QA Type: Trip Blank

Field Name: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-10

Collect Date: 09/11/23

Collect Time: 13:55

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
4-Chlorotoluene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Acetone	V3, Z-01e	26	20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Allyl chloride		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Benzene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Bromobenzene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Bromochloromethane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Bromodichloromethane		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Bromoform		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Bromomethane	V1	<	1.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Carbon tetrachloride		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Chlorobenzene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Chlorodibromomethane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Chloroethane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Chloroform		<	0.10	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Chloromethane		<	1.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
cis-1,2-Dichloroethene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
cis-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Dibromomethane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Dichlorodifluoromethane		<	1.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Dichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Ethyl ether		<	2.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Ethylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Hexachlorobutadiene		<	1.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Isopropylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Methyl ethyl ketone (MEK)		<	10	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3

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## Amended Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

MDH Sample Number: 23I0420-10

Collect Date: 09/11/23

Collect Time: 13:55
Matrix: Drinking Water

Field Fluoride Result: None

Field pH Result: None
Field PO4 Result: None

Field Residual Chlorine Result: None

Sampling Point: None QA Type: Trip Blank

Field Name: None

Location ID: Trip Blank

Results were produced by the Minnesota Department of Health, except where noted.

#### **VOCs by GCMS - Continued**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Methylene chloride		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Naphthalene		<	1.0	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
n-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
n-Propylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
o-Xylene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
p and m-Xylene		<	0.30	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
p-Isopropyltoluene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
sec-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Styrene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
tert-Butylbenzene		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Tetrachloroethene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Tetrahydrofuran (THF)		<	10	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Toluene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
trans-1,2-Dichloroethene		<	0.10	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
trans-1,3-Dichloropropene		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Trichloroethene (TCE)		<	0.10	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Trichlorofluoromethane		<	0.50	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Vinyl chloride		<	0.20	ug/L	B3I1020	09/12/23 18:51	09/12/23 18:51	EPA 524.3

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

**Batch Summary** 

Samples in Batch: B3I1010 - Glyphosate Preparation

2310420-06 2310420-07 2310420-08

Samples in Batch: B3I1011 - Carbamate Preparation

2310420-06 2310420-07 2310420-08

Samples in Batch: B3I1012 - Microbiology Prep

2310420-01 2310420-03 2310420-04 2310420-05

Samples in Batch: B3I1014 - Herbicide Extraction

2310420-06 2310420-07 2310420-08

Samples in Batch: B3I1018 - EDB & DBCP Preparation

2310420-08

Samples in Batch: B3I1020 - EPA 524 Prep

2310420-06 2310420-07 2310420-08 2310420-10

Samples in Batch: B3I1032 - 1,4 Dioxane in Water SPE

2310420-06 2310420-07 2310420-08

Samples in Batch: B3I1033 - EPA 200 Series Prep

2310420-02 2310420-03 2310420-04

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310420-01 2310420-05

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### **Batch Summary**

Samples in Batch: B3I1074 - General Chemistry Prep

2310420-01

2310420-05

Samples in Batch: B3I1093 - Metals Prep

2310420-01

2310420-02

2310420-03

2310420-04

2310420-05

Samples in Batch: B3I1106 - BNA SDWA Extraction

2310420-06

2310420-08

Samples in Batch: B3I1138 - BNA 505 Prep

2310420-06

2310420-07

2310420-08

Samples in Batch: B3I1304 - HAA Extraction

23I0420-08RE1

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1074 - General	Chemistry Prep										
Blank (B3I1074-BLK1)				Prepared: 09/13/23 14:09 Analyzed: 09/15/23 08:29							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Solids, Suspended		<	1.0	mg/L							
Duplicate (B3I1074-DUP1)		Source: 2310	410-05	Prepare	ed: 09/13/23	14:09 Anal	yzed: 09/15/2	23 08:30			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Solids, Suspended	Z-01	<	1.0	mg/L		<				5	
Duplicate (B3I1074-DUP2)		Qualifier(5)			ed: 09/13/23	14:09 Anal	yzed: 09/15/2	23 08:31			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Solids, Suspended	Z-01	<	1.0	mg/L		<				5	
Reference (B3I1074-SRM1)				Prepare	ed: 09/13/23	14:09 Anal	yzed: 09/15/2	23 08:30			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Solids, Suspended		66.00	2.5	mg/L	64.4		102	79.7-107			

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## Amended Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Lucas Martin

City: Stillwater

Collector ID: None

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1033-BLK1)				Prepare	ed: 09/12/23	10:59 Anal	yzed: 09/13/2	3 12:50		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1033-BS1)				Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 12:53		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		50.4		ug/L	50		101	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		50.0		ug/L	50		100	85-115		
Duplicate (B3I1033-DUP1)		Source: 2310	408-03	3-03 Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:05						
	Analyte		Reporting		Spike	Source				RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Copper		58.4	10.0	ug/L		57.4			2	20
Lead		<	1.00	ug/L		<				20
Manganese		21.5	10.0	ug/L		21.3			8.0	20
Duplicate (B3I1033-DUP2)		Source: 2310	410-03	Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:52				3 13:52		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		3.37	10.0	ug/L		<			0.6	20
Lead		<	1.00	ug/L		<				20
Manganese		25.2	10.0	ug/L		25.3			0.4	20
Matrix Spike (B3I1033-MS1)		Source: 2310	408-03	Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 13:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	Qualifier(3)	105	LIIII	ug/L	50	rtoouit	95	70-130		LIIIII
Lead		47.8		ug/L	50		96	70-130		
Manganese		70.5		ug/L	50		98	70-130		
Matrix Spike (B3I1033-MS2)		Source: 2310	410-03	Prepare	ed: 09/12/23	3 10:59 Anal	yzed: 09/13/2	3 13:55		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		52.2		ug/L	50		98	70-130		

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None

Collected By: Lucas Martin

Generated: 09/28/23 14:35

Results were produced by Minnesota Department of Health, except where noted.

) Series Prep									
	Source: 2310	410-03	Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:55						
Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
	47.7		ug/L	50		95	70-130		
	75.2		ug/L	50		100	70-130		
) Series Prep									
			Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:16		
Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
V1	<	10.0	ug/L						
	<	1.00	ug/L						
	<	10.0	ug/L						
			Prepared: 09/13/23 08:48 Analyzed: 09/15/23 14:06						
Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
	<	10.0	ug/L						
	<	1.00	ug/L						
			Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:19		
Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike	Source				RPD
			Units	Level	Result	%REC	%REC Limits	RPD	Limit
V1	51.0		ug/L	-	Result	102	%REC Limits 85-115	RPD	Limit
V1	51.0 49.2			Level	Result			RPD	Limit
V1			ug/L	Level 50	Result	102	85-115	RPD	Limit
V1	49.2		ug/L ug/L ug/L	50 50 50 50		102 98	85-115 85-115 85-115	RPD	<u>Limit</u>
V1 Analyte Qualifier(s)	49.2	Reporting Limit	ug/L ug/L ug/L	50 50 50 50		102 98 102	85-115 85-115 85-115	RPD	Limit RPD Limit
Analyte	49.2 51.1	Reporting	ug/L ug/L ug/L Prepare	Level 50 50 50 50 ed: <b>09/13/23</b> Spike	08:48 Anal Source	102 98 102 yzed: 09/15/2	85-115 85-115 85-115		RPD
Analyte	49.2 51.1 Result	Reporting	ug/L ug/L ug/L Prepare	Level 50 50 50 50 sd: 09/13/23 Spike Level	08:48 Anal Source	102 98 102 <b>yzed: 09/15/2</b> %REC	85-115 85-115 85-115 3 14:09 %REC Limits		RPD
Analyte	49.2 51.1 Result 49.0	Reporting Limit	ug/L ug/L ug/L Un/L  Prepare Units ug/L ug/L	Level 50 50 50 50 sd: 09/13/23 Spike Level 50 50	<b>08:48 Anal</b> Source Result	102 98 102 <b>yzed: 09/15/2</b> %REC 98	85-115 85-115 85-115 3 14:09 %REC Limits 85-115		RPD
Analyte Qualifier(s) Analyte	49.2 51.1 Result 49.0 48.7	Reporting Limit 409-03 Reporting	ug/L ug/L ug/L Un/L  Prepare Units ug/L ug/L	Level 50 50 50 6d: 09/13/23 Spike Level 50 50 6d: 09/13/23 Spike	08:48 Anal Source Result 08:48 Anal Source	102 98 102 <b>yzed: 09/15/2</b> %REC 98 97	85-115 85-115 85-115 3 14:09 %REC Limits 85-115		RPD Limit
Analyte Qualifier(s)	49.2 51.1 Result 49.0 48.7 Source: 23l0	Reporting Limit 409-03	ug/L ug/L ug/L  Prepare Units ug/L ug/L Prepare	Level 50 50 50 6d: 09/13/23 Spike Level 50 50 6d: 09/13/23	08:48 Anal Source Result	102 98 102 yzed: 09/15/2 %REC 98 97	85-115 85-115 85-115 3 14:09 %REC Limits 85-115 85-115	RPD	RPD Limit
Analyte Qualifier(s) Analyte	49.2 51.1 Result 49.0 48.7 Source: 2310 Result	Reporting Limit 409-03 Reporting Limit	ug/L ug/L ug/L Prepare Units ug/L ug/L Prepare	Level 50 50 50 6d: 09/13/23 Spike Level 50 50 6d: 09/13/23 Spike	08:48 Anal Source Result 08:48 Anal Source Result	102 98 102 yzed: 09/15/2 %REC 98 97	85-115 85-115 85-115 3 14:09 %REC Limits 85-115 85-115	RPD	RPD Limit RPD Limit
	Qualifier(s)  Series Prep  Analyte Qualifier(s)  V1  Analyte Qualifier(s)  Analyte Analyte	Analyte Qualifier(s)  47.7 75.2  D Series Prep  Analyte Qualifier(s)  V1  <  Analyte Qualifier(s)  Result  <  Analyte Analyte Qualifier(s)  Analyte Analyte Qualifier(s)  Analyte	Qualifier(s)         Result 47.7 75.2           Analyte Qualifier(s)         Result Limit Limit Limit Reporting Limit Limit Limit Limit Limit Limit Limit Result Limit Limit Limit Limit Limit Limit Limit Limit Result Limit Limit Result Limit Limit Result Result Limit Result Result Limit Result Result Limit Result Resu	Analyte Qualifier(s)    Result   Limit   Units     47.7	Analyte Qualifier(s)   Result   Limit   Units   Level     47.7	Analyte	Analyte Qualifier(s)  Result Limit Units Level Result %REC  47.7	Analyte Qualifier(s)   Result   Limit   Units   Level   Result   Result   Result   Limit   Limit   Limit   Limit   Level   Result   Limit   Limit   Units   Spike   Source   Result   Result   Result   Result   Limit   Units   Spike   Result   Re	Analyte Qualifier(s)  Result   Climit   Climit

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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651-201-5300

## Amended Report Quality Control

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

Results were produced by Minnesota Department of Health, except where noted.

Duplicate (B3I1065-DUP2)		Source: 2310	427-06	Prepare	ed: 09/13/23	08:48 Anal	yzed: 09/13/2	3 18:03		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		304	10.0	ug/L		302			0.7	20
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	409-03RE1	Prepare	ed: 09/15/23	8 08:33 Anal	yzed: 09/15/2	3 14:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3l1065-MS1)		Source: 2310	409-03	Prepared: 09/13/23 08:48 Analyzed: 09/13/23 17:31						
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		49.4		ug/L	50		99	70-130		
Manganese		98.0		ug/L	50		100	70-130		
Matrix Spike (B3l1065-MS2)		Source: 2310	427-06	Prepare	ed: 09/13/23	8 08:48 Anal	yzed: 09/13/2	3 18:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		348		ug/L	50		93	70-130		
Lead		53.1		ug/L	50		106	70-130		
Manganese		62.6		ug/L	50		99	70-130		

Matrix Spike (B3I1065-MS3)

Analyte

Copper

Lead

Blank (B3I1093-BLK1)		Prepared: 09/13/23 16:17 Analyzed: 09/14/23 12:38								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						

Source: 23I0409-03RE1

Result

47.7

49.9

Reporting

Limit

FINAL REPORT Report ID: 09282023143535

Authorized by:

Program Code: LS

Collector ID: None

Program Name: Special Investigation Collected By: Lucas Martin

Batch B3I1065 - EPA 200 Series Prep

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Prepared: 09/15/23 08:33 Analyzed: 09/15/23 14:21

%REC

94

100

%REC Limits

70-130

70-130

Source

Result

Spike

Level

50

50

Units

ug/L

ug/L

Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Analyte

Qualifier(s

RPD

Limit

**RPD** 

## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1093 - Metals Prep

LCS (B3I1093-BS1)				Prepare	ed: 09/13/23	3 16:17 Anal	yzed: 09/14/2	23 12:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		951		ug/L	1,000		95	85-115		
Duplicate (B3I1093-DUP1)		Source: 2310	)419-05	Prepare	ed: 09/13/23	3 16:17 Anal	yzed: 09/14/2	23 12:44		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L		<				20
Duplicate (B3I1093-DUP2)					ed: 09/13/23	3 16:17 Anal	yzed: 09/14/2	23 13:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		9.46	20.0	ug/L		<			15	20
Matrix Spike (B3I1093-MS1)		Source: 2310	0419-05	Prepare	ed: 09/13/23	3 16:17 Anal	yzed: 09/14/2	23 13:13		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		914		ug/L	1,000		91	85-115		
Matrix Spike (B3I1093-MS2)		Source: 2310	0420-05	Prepare	ed: 09/13/23	3 16:17 Anal	yzed: 09/14/2	23 13:39		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		1010		ug/L	1,000		101	85-115		

FINAL REPORT Report ID: 09282023143535

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651-201-5300

## Amended Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None

Generated: 09/28/23 14:35

Results were produced by Minnesota Department of Health, except where noted.

In -4-1-	D014004	1111	Extraction
ıKatcn	RRITROA	- НАА	- YTRACTION

Program Name: Special Investigation Collected By: Lucas Martin

Blank (B3I1304-BLK1)	ank (B3I1304-BLK1)					Prepared: 09/22/23 09:34 Analyzed: 09/26/23 10:53									
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit					
Surrogate: 2-Bromobutanoic Acid		79	70-130	%	10										
Dibromoacetic Acid		<	1.0	ug/L											
Dichloroacetic Acid		<	1.0	ug/L											
Monobromoacetic Acid		<	1.0	ug/L											
Monochloroacetic Acid		<	2.0	ug/L											
Trichloroacetic Acid		<	1.0	ug/L											

### LCS (B3I1304-BS1)

Prepared: 09/22/23 09:34 Ana	lyzed: 09/26/23 18:09
------------------------------	-----------------------

				•			•			
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Bromobutanoic Acid		88	70-130	%	10					
Dibromoacetic Acid		8.9	1.0	ug/L	10		89	70-130		
Dichloroacetic Acid		9.2	1.0	ug/L	10		92	70-130		
Monobromoacetic Acid		9.4	1.0	ug/L	10		94	70-130		
Monochloroacetic Acid		19	2.0	ug/L	20		96	70-130		
Trichloroacetic Acid		9.0	1.0	ug/L	10		90	70-130		

#### LCS (B3I1304-BS2)

#### Prepared: 09/22/23 09:34 Analyzed: 09/27/23 00:46

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Bromobutanoic Acid		90	70-130	%	10					
Dibromoacetic Acid		19	1.0	ug/L	20		93	70-130		
Dichloroacetic Acid		18	1.0	ug/L	20		91	70-130		
Monobromoacetic Acid		19	1.0	ug/L	20		94	70-130		
Monochloroacetic Acid		38	2.0	ug/L	40		95	70-130		
Trichloroacetic Acid		18	1.0	ug/L	20		92	70-130		

#### Matrix Spike (B3I1304-MS1)

Source: 23I0491-02RE1

#### Prepared: 09/22/23 09:34 Analyzed: 09/26/23 12:12

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Bromobutanoic Acid		72	70-130	%	10					
Dibromoacetic Acid		16	1.0	ug/L	20	<	82	70-130		
Dichloroacetic Acid		17	1.0	ug/L	20	<	81	70-130		
Monobromoacetic Acid		17	1.0	ug/L	20	<	87	70-130		
Monochloroacetic Acid		31	2.0	ug/L	40	<	77	70-130		
Trichloroacetic Acid		17	1.0	ug/L	20	<	81	70-130		
FINAL REPORT								Report ID:	0928202	3143535

Authorized by:

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## Amended Report **Quality Control**

St. Paul, MN 55164-0899 651-201-5300

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1304 - HAA Extraction

Matrix Spike Dup (B3I1304-MSD1)		Source: 2310	Prepare	d: 09/22/23	09:34 Anal	yzed: 09/26/2	3 12:52									
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit						
Surrogate: 2-Bromobutanoic Acid		80	70-130	%	10											
Dibromoacetic Acid		19	1.0	ug/L	20	<	95	70-130	14	30						
Dichloroacetic Acid		19	1.0	ug/L	20	<	93	70-130	14	30						
Monobromoacetic Acid		19	1.0	ug/L	20	<	97	70-130	10	30						
Monochloroacetic Acid		33	2.0	ug/L	40	<	83	70-130	7	30						
Trichloroacetic Acid		19	1.0	ug/L	20	<	95	70-130	15	30						

FINAL REPORT Report ID: 09282023143535

Authorized by:

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## Amended Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Lucas Martin

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

Ratch	B311011	. Herhicide	Extraction

Blank (B3I1014-BLK1)					Prepared: 09/12/23 07:44 Analyzed: 09/12/23 17:46							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Surrogate: Bromopropionic Acid		113	70-130	%	6							
2,4,5-TP (Silvex)		<	1.0	ug/L								
2,4-D		<	1.0	ug/L								
Dalapon		<	5.0	ug/L								
Dinoseb		<	1.0	ug/L								
Pentachlorophenol (PCP)	V1	<	0.080	ug/L								
Picloram		<	1.0	ug/L								

#### LCS (B3I1014-BS1)

#### Prepared: 09/12/23 07:44 Analyzed: 09/12/23 22:44

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Bromopropionic Acid		114	70-130	%	6					
2,4,5-TP (Silvex)		2.1	1.0	ug/L	2		107	70-130		
2,4-D		2.0	1.0	ug/L	2		98	70-130		
Dalapon		12	5.0	ug/L	10		116	70-130		
Dinoseb		2.2	1.0	ug/L	2		108	70-130		
Pentachlorophenol (PCP)	V1	0.21	0.080	ug/L	0.16		129	70-130		
Picloram		2.0	1.0	ug/L	2		102	70-130		

#### LCS (B3I1014-BS2)

#### Prepared: 09/12/23 07:44 Analyzed: 09/12/23 23:18

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Bromopropionic Acid		112	70-130	%	6					
2,4,5-TP (Silvex)		4.4	1.0	ug/L	4		109	70-130		
2,4-D		3.9	1.0	ug/L	4		98	70-130		
Dalapon		22	5.0	ug/L	20		109	70-130		
Dinoseb		4.3	1.0	ug/L	4		107	70-130		
Pentachlorophenol (PCP)	V1	0.38	0.080	ug/L	0.32		119	70-130		
Picloram		4.3	1.0	ug/L	4		107	70-130		

#### Matrix Spike (B3I1014-MS1)

Source: 23I0264-01

#### Prepared: 09/12/23 07:44 Analyzed: 09/12/23 18:52

matrix opine (Borro 14-mor)		C00100. 2010.	20101	Prepare	eu: 09/12/23	07:44 Anai	yzea: 09/12/2	3 10:52		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Bromopropionic Acid		114	70-130	%	6					
2,4,5-TP (Silvex)		2.2	1.0	ug/L	2	<	108	70-130		
2,4-D		2.0	1.0	ug/L	2	<	99	70-130		
FINAL REPORT								Report ID:	0928202	3143535

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651-201-5300

## Amended Report Quality Control

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

Program Code: LS

Collector ID: None

Collected By: Lucas Martin

Program Name: Special Investigation

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1014 - Herbicide Extraction

Matrix Spike (B3I1014-MS1)		Prepare								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dalapon		12	5.0	ug/L	10	<	116	70-130		
Dinoseb		2.2	1.0	ug/L	2	<	108	70-130		
Pentachlorophenol (PCP)	M1, V1	0.21	0.080	ug/L	0.16	<	133	70-130		
Picloram		2.1	1.0	ug/L	2	<	104	70-130		

Matrix Spike Dup (B3I1014-MSD1) Source: 23I0264-01 Prepared: 09/12/23 07:44 Analyzed: 09/12/23 19:25

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Bromopropionic Acid		115	70-130	%	6					
2,4,5-TP (Silvex)		2.1	1.0	ug/L	2	<	104	70-130	4	30
2,4-D		1.9	1.0	ug/L	2	<	97	70-130	2	30
Dalapon		11	5.0	ug/L	10	<	113	70-130	3	30
Dinoseb		2.1	1.0	ug/L	2	<	103	70-130	5	30
Pentachlorophenol (PCP)	V1	0.20	0.080	ug/L	0.16	<	125	70-130	6	30
Picloram		2.0	1.0	ug/L	2	<	102	70-130	2	30

FINAL REPORT Report ID: 09282023143535

Authorized by:

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651-201-5300

## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

## Batch B3I1018 - EDB & DBCP Preparation

Blank (B3l1018-BLK1)				Prepare	ed: 09/12/23	09:07 Anal	yzed: 09/12/2	23 14:10		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane (DBCP)		<	0.01	ug/L						
1,2-Dibromoethane (EDB)		<	0.01	ug/L						
LCS (B3I1018-BS1)				Prepare	ed: 09/12/23	8 09:07 Anal	yzed: 09/12/2	23 16:46		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane (DBCP)		0.23	0.01	ug/L	0.25		92	70-130		
1,2-Dibromoethane (EDB)		0.23	0.01	ug/L	0.25		93	70-130		
Matrix Spike (B3I1018-MS1)		Source: 2310	)420-08	Prepare	ed: 09/12/23	3 09:07 Anal	yzed: 09/12/2	23 16:26		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane (DBCP)		0.24	0.01	ug/L	0.24	<	97	65-135		
1,2-Dibromoethane (EDB)		0.24	0.01	ug/L	0.24	<	97	65-135		

FINAL REPORT Report ID: 09282023143535

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## Amended Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Collector ID: None

Collected By: Lucas Martin

Generated: 09/28/23 14:35

Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

Program Name: Special Investigation

Blank (B3I1020-BLK1)				Prepare	ed: 09/12/23	11:40 Anal	yzed: 09/12/2	3 11:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		112	70-130	%	10					
Surrogate: 4-Bromofluorobenzene		98	70-130	%	10					
Surrogate: Methyl tertiary butyl ether-d3		112	70-130	%	10					
1,1,1,2-Tetrachloroethane		<	0.20	ug/L						
1,1,1-Trichloroethane		<	0.20	ug/L						
1,1,2,2-Tetrachloroethane		<	0.20	ug/L						
1,1,2-Trichloroethane		<	0.20	ug/L						
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L						
1,1-Dichloroethane		<	0.20	ug/L						
1,1-Dichloroethene		<	0.50	ug/L						
1,1-Dichloropropene		<	0.20	ug/L						
1,2,3-Trichlorobenzene		<	1.0	ug/L						
1,2,3-Trichloropropane		<	0.50	ug/L						
1,2,4-Trichlorobenzene		<	0.50	ug/L						
1,2,4-Trimethylbenzene		<	0.50	ug/L						
1,2-Dibromo-3-chloropropane (DBCP)		<	2.0	ug/L						
1,2-Dibromoethane (EDB)		<	0.50	ug/L						
1,2-Dichlorobenzene		<	0.20	ug/L						
1,2-Dichloroethane		<	0.20	ug/L						
1,2-Dichloropropane		<	0.20	ug/L						
1,3,5-Trimethylbenzene		<	0.50	ug/L						
1,3-Dichlorobenzene		<	0.20	ug/L						
1,3-Dichloropropane		<	0.20	ug/L						
1,4-Dichlorobenzene		<	0.20	ug/L						
2,2-Dichloropropane		<	0.50	ug/L						
2-Chlorotoluene		<	0.50	ug/L						
4-Chlorotoluene		<	0.50	ug/L						
Acetone	V1	<	20	ug/L						
Allyl chloride		<	0.50	ug/L						
Benzene		<	0.20	ug/L						
Bromobenzene		<	0.20	ug/L						
Bromochloromethane		<	0.50	ug/L						
Bromodichloromethane		<	0.20	ug/L						
Bromoform		<	0.50	ug/L						
FINAL REPORT								Report ID:	0928202	3143535

Authorized by:

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report Quality Control

Program Code: LS

Collector ID: None

Program Name: Special Investigation

Collected By: Lucas Martin

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

Blank (B3I1020-BLK1)	Prepare	d: 09/12/23	11:40 Anal	yzed: 09/12/2	3 11:40					
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromomethane	V1	<	1.0	ug/L						
Carbon tetrachloride		<	0.20	ug/L						
Chlorobenzene		<	0.20	ug/L						
Chlorodibromomethane		<	0.50	ug/L						
Chloroethane		<	0.50	ug/L						
Chloroform		<	0.10	ug/L						
Chloromethane		<	1.0	ug/L						
cis-1,2-Dichloroethene		<	0.20	ug/L						
cis-1,3-Dichloropropene		<	0.20	ug/L						
Dibromomethane		<	0.50	ug/L						
Dichlorodifluoromethane		<	1.0	ug/L						
Dichlorofluoromethane		<	0.50	ug/L						
Ethyl ether		<	2.0	ug/L						
Ethylbenzene		<	0.50	ug/L						
Hexachlorobutadiene		<	1.0	ug/L						
Isopropylbenzene		<	0.50	ug/L						
Methyl ethyl ketone (MEK)		<	10	ug/L						
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L						
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L						
Methylene chloride		<	0.50	ug/L						
Naphthalene		<	1.0	ug/L						
n-Butylbenzene		<	0.50	ug/L						
n-Propylbenzene		<	0.50	ug/L						
o-Xylene		<	0.20	ug/L						
p and m-Xylene		<	0.30	ug/L						
p-Isopropyltoluene		<	0.50	ug/L						
sec-Butylbenzene		<	0.50	ug/L						
Styrene		<	0.50	ug/L						
tert-Butylbenzene		<	0.50	ug/L						
Tetrachloroethene		<	0.20	ug/L						
Tetrahydrofuran (THF)		<	10	ug/L						
Toluene		<	0.20	ug/L						
trans-1,2-Dichloroethene		<	0.10	ug/L						
trans-1,3-Dichloropropene		<	0.20	ug/L						
Trichloroethene (TCE)		<	0.10	ug/L						
FINAL REPORT								Report ID:	0928202	314353

Authorized by:

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## Amended Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Blank (B3I1020-BLK1)

Project ID: MN Correctional Facility - Stillwater

Prepared: 09/12/23 11:40 Analyzed: 09/12/23 11:40

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

#### Batch B3I1020 - EPA 524 Prep

	Analyte		Reporting		Spike	Source				RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Trichlorofluoromethane		<	0.50	ug/L						
Vinyl chloride		<	0.20	ug/L						
LCS (B3I1020-BS1)				Prepare	d: 09/12/23	17:57 Anal	yzed: 09/12/2	3 17:57		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		101	70-130	%	10					
Surrogate: 4-Bromofluorobenzene		93	70-130	%	10					
Surrogate: Methyl tertiary butyl ether-d3		122	70-130	%	10					
1,1,1,2-Tetrachloroethane		4.2	0.20	ug/L	4		104	70-130		
1,1,1-Trichloroethane		4.3	0.20	ug/L	4		107	70-130		
1,1,2,2-Tetrachloroethane		4.0	0.20	ug/L	4		99	70-130		
1,1,2-Trichloroethane		4.2	0.20	ug/L	4		106	70-130		
1,1,2-Trichlorotrifluoroethane		4.5	0.20	ug/L	4		112	70-130		
1,1-Dichloroethane		4.3	0.20	ug/L	4		107	70-130		
1,1-Dichloroethene		4.5	0.50	ug/L	4		113	70-130		
1,1-Dichloropropene		3.9	0.20	ug/L	4		98	70-130		
1,2,3-Trichlorobenzene		3.3	1.0	ug/L	4		84	70-130		
1,2,3-Trichloropropane		3.8	0.50	ug/L	4		96	70-130		
1,2,4-Trichlorobenzene		3.3	0.50	ug/L	4		82	70-130		
1,2,4-Trimethylbenzene		3.0	0.50	ug/L	4		75	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		4.2	2.0	ug/L	4		104	70-130		
1,2-Dibromoethane (EDB)		4.1	0.50	ug/L	4		103	70-130		
1,2-Dichlorobenzene		3.7	0.20	ug/L	4		93	70-130		
1,2-Dichloroethane		4.4	0.20	ug/L	4		110	70-130		
1,2-Dichloropropane		4.2	0.20	ug/L	4		105	70-130		
1,3,5-Trimethylbenzene		3.0	0.50	ug/L	4		75	70-130		
1,3-Dichlorobenzene		3.8	0.20	ug/L	4		96	70-130		
1,3-Dichloropropane		4.0	0.20	ug/L	4		100	70-130		
1,4-Dichlorobenzene		3.8	0.20	ug/L	4		94	70-130		
2,2-Dichloropropane		4.6	0.50	ug/L	4		114	70-130		
2-Chlorotoluene		3.3	0.50	ug/L	4		82	70-130		
4-Chlorotoluene		3.4	0.50	ug/L	4		86	70-130		
Acetone	V1	54	20	ug/L	40		135	70-130		
FINAL REPORT								Report ID:	0928202	314353

Authorized by:

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

LCS (B3I1020-BS1)				Prepare		-	yzed: 09/12/2	3 17:57		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Allyl chloride	Qualifier (3)	4.2	0.50	ug/L	4	rtesuit	104	70-130		<u> </u>
Senzene		4.3	0.20	ug/L	4		107	70-130		
Bromobenzene		3.7	0.20	ug/L	4		92	70-130		
Bromochloromethane		4.4	0.50	ug/L	4		110	70-130		
Bromodichloromethane		4.5	0.20	ug/L	4		112	70-130		
Bromoform		4.4	0.50	ug/L	4		109	70-130		
Bromomethane	V1	4.7	1.0	ug/L	4		117	70-130		
Carbon tetrachloride		4.4	0.20	ug/L	4		110	70-130		
Chlorobenzene		3.7	0.20	ug/L	4		93	70-130		
Chlorodibromomethane		4.2	0.50	ug/L	4		105	70-130		
Chloroethane		4.4	0.50	ug/L	4		111	70-130		
Chloroform		4.4	0.10	ug/L	4		110	70-130		
Chloromethane		4.3	1.0	ug/L	4		108	70-130		
cis-1,2-Dichloroethene		4.2	0.20	ug/L	4		104	70-130		
sis-1,3-Dichloropropene		3.4	0.20	ug/L	4		85	70-130		
Dibromomethane		4.6	0.50	ug/L	4		114	70-130		
Dichlorodifluoromethane		3.5	1.0	ug/L	4		88	70-130		
Dichlorofluoromethane		4.7	0.50	ug/L	4		118	70-130		
Ethyl ether		4.9	2.0	ug/L	4		122	70-130		
Ethylbenzene		3.2	0.50	ug/L	4		80	70-130		
Hexachlorobutadiene		3.4	1.0	ug/L	4		84	70-130		
sopropylbenzene		3.0	0.50	ug/L	4		75	70-130		
Methyl ethyl ketone (MEK)		23	10	ug/L	20		113	70-130		
Methyl isobutyl ketone (MIBK)		18	5.0	ug/L	20		92	70-130		
Methyl tertiary butyl ether (MTBE)		4.4	2.0	ug/L	4		110	70-130		
Methylene chloride		4.6	0.50	ug/L	4		115	70-130		
Naphthalene		3.2	1.0	ug/L	4		80	70-130		
n-Butylbenzene		3.0	0.50	ug/L	4		76	70-130		
n-Propylbenzene		3.2	0.50	ug/L	4		79	70-130		
o-Xylene		3.1	0.20	ug/L	4		77	70-130		
and m-Xylene		3.2	0.30	ug/L	4		79	70-130		
p-Isopropyltoluene		3.0	0.50	ug/L	4		74	70-130		
sec-Butylbenzene		3.0	0.50	ug/L	4		75	70-130		
Styrene		3.4	0.50	ug/L	4		84	70-130		
tert-Butylbenzene		3.0	0.50	ug/L	4		74	70-130		

Authorized by:

FINAL REPORT

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health Report ID: 09282023143535

## Amended Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

LCS (B3I1020-BS1)				Prepared: 09/12/23 17:57 Analyzed: 09/12/23 17:57						
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Tetrachloroethene		3.6	0.20	ug/L	4		90	70-130		
Tetrahydrofuran (THF)		45	10	ug/L	40		113	70-130		
Toluene		3.2	0.20	ug/L	4		79	70-130		
trans-1,2-Dichloroethene		4.3	0.10	ug/L	4		106	70-130		
trans-1,3-Dichloropropene		4.1	0.20	ug/L	4		102	70-130		
Trichloroethene (TCE)		4.1	0.10	ug/L	4		102	70-130		
Trichlorofluoromethane		4.7	0.50	ug/L	4		118	70-130		
Vinyl chloride		4.2	0.20	ug/L	4		106	70-130		

Duplicate (B3I1020-DUP1) Source: 23I0430-01 Prepared: 09/12/23 17:30 Analyzed: 09/12/23 17:30

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		112	70-130	%	10					
Surrogate: 4-Bromofluorobenzene		96	70-130	%	10					
Surrogate: Methyl tertiary butyl ether-d3		124	70-130	%	10					
1,1,1,2-Tetrachloroethane		<	0.20	ug/L		<				30
1,1,1-Trichloroethane		<	0.20	ug/L		<				30
1,1,2,2-Tetrachloroethane		<	0.20	ug/L		<				30
1,1,2-Trichloroethane		<	0.20	ug/L		<				30
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L		<				30
1,1-Dichloroethane		<	0.20	ug/L		<				30
1,1-Dichloroethene		<	0.50	ug/L		<				30
1,1-Dichloropropene		<	0.20	ug/L		<				30
1,2,3-Trichlorobenzene		<	1.0	ug/L		<				30
1,2,3-Trichloropropane		<	0.50	ug/L		<				30
1,2,4-Trichlorobenzene		<	0.50	ug/L		<				30
1,2,4-Trimethylbenzene		<	0.50	ug/L		<				30
1,2-Dibromo-3-chloropropane (DBCP)		<	2.0	ug/L		<				30
1,2-Dibromoethane (EDB)		<	0.50	ug/L		<				30
1,2-Dichlorobenzene		<	0.20	ug/L		<				30
1,2-Dichloroethane		<	0.20	ug/L		<				30
1,2-Dichloropropane		<	0.20	ug/L		<				30
1,3,5-Trimethylbenzene		<	0.50	ug/L		<				30
1,3-Dichlorobenzene		<	0.20	ug/L		<				30
FINAL REPORT								Report ID:	0928202	3143535

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## Amended Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

Duplicate (B3I1020-DUP1)		Source: 2310	430-01	Prepare	ed: 09/12/23 17:30 Anal	yzed: 09/12/2	3 17:30		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Source Level Result	%REC	%REC Limits	RPD	RPD Limit
1,3-Dichloropropane		<	0.20	ug/L	<				30
1,4-Dichlorobenzene		<	0.20	ug/L	<				30
2,2-Dichloropropane		<	0.50	ug/L	<				30
2-Chlorotoluene		<	0.50	ug/L	<				30
4-Chlorotoluene		<	0.50	ug/L	<				30
Acetone	V1	<	20	ug/L	<				30
Allyl chloride		<	0.50	ug/L	<				30
Benzene		<	0.20	ug/L	<				30
Bromobenzene		<	0.20	ug/L	<				30
Bromochloromethane		<	0.50	ug/L	<				30
Bromodichloromethane		0.11	0.20	ug/L	<			0	30
Bromoform		<	0.50	ug/L	<				30
Bromomethane		<	1.0	ug/L	<				30
Carbon tetrachloride		<	0.20	ug/L	<				30
Chlorobenzene		<	0.20	ug/L	<				30
Chlorodibromomethane		<	0.50	ug/L	<				30
Chloroethane		<	0.50	ug/L	<				30
Chloroform		0.84	0.10	ug/L	0.81			4	30
Chloromethane		<	1.0	ug/L	<				30
cis-1,2-Dichloroethene		<	0.20	ug/L	<				30
cis-1,3-Dichloropropene		<	0.20	ug/L	<				30
Dibromomethane		<	0.50	ug/L	<				30
Dichlorodifluoromethane		<	1.0	ug/L	<				30
Dichlorofluoromethane		<	0.50	ug/L	<				30
Ethyl ether		<	2.0	ug/L	<				30
Ethylbenzene		<	0.50	ug/L	<				30
Hexachlorobutadiene		<	1.0	ug/L	<				30
Isopropylbenzene		<	0.50	ug/L	<				30
Methyl ethyl ketone (MEK)		<	10	ug/L	<				30
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	<				30
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	<				30
Methylene chloride		<	0.50	ug/L	<				30
Naphthalene		<	1.0	ug/L	<				30
n-Butylbenzene		<	0.50	ug/L	<				30
n-Propylbenzene		<	0.50	ug/L	<				30

FINAL REPORT Authorized by:

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Report ID: 09282023143535

## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

Duplicate (B3I1020-DUP1)		Source: 2310	430-01	Prepared: 09/12/23 17:30 Analyzed: 09/12/23 17:30						
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
o-Xylene		<	0.20	ug/L		<				30
p and m-Xylene		<	0.30	ug/L		<				30
p-Isopropyltoluene		<	0.50	ug/L		<				30
sec-Butylbenzene		<	0.50	ug/L		<				30
Styrene		<	0.50	ug/L		<				30
tert-Butylbenzene		<	0.50	ug/L		<				30
Tetrachloroethene		<	0.20	ug/L		<				30
Tetrahydrofuran (THF)		<	10	ug/L		<				30
Toluene		<	0.20	ug/L		<				30
trans-1,2-Dichloroethene		<	0.10	ug/L		<				30
trans-1,3-Dichloropropene		<	0.20	ug/L		<				30
Trichloroethene (TCE)		<	0.10	ug/L		<				30
Trichlorofluoromethane		<	0.50	ug/L		<				30
Vinyl chloride		<	0.20	ug/L		<				30

Matrix Spike (B3I1020-MS1)

Source: 23I0304-01

Prepared: 09/12/23 12:07 Analyzed: 09/12/23 12:07

watrix Spike (BSITUZU-WIST)		30uice. 2310	304-01	Prepare	d: 09/12/23	12:07 Anal	yzed: 09/12/2	3 12:07		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		99	70-130	%	10					
Surrogate: 4-Bromofluorobenzene		94	70-130	%	10					
Surrogate: Methyl tertiary butyl ether-d3		109	70-130	%	10					
1,1,1,2-Tetrachloroethane		6.6	0.20	ug/L	6	<	110	70-130		
1,1,1-Trichloroethane		7.8	0.20	ug/L	6	<	129	70-130		
1,1,2,2-Tetrachloroethane		6.1	0.20	ug/L	6	<	101	70-130		
1,1,2-Trichloroethane		6.4	0.20	ug/L	6	<	106	70-130		
1,1,2-Trichlorotrifluoroethane	M1	8.2	0.20	ug/L	6	<	137	70-130		
1,1-Dichloroethane		7.3	0.20	ug/L	6	<	122	70-130		
1,1-Dichloroethene	M1	8.2	0.50	ug/L	6	<	136	70-130		
1,1-Dichloropropene		7.3	0.20	ug/L	6	<	122	70-130		
1,2,3-Trichlorobenzene		5.3	1.0	ug/L	6	<	89	70-130		
1,2,3-Trichloropropane		5.9	0.50	ug/L	6	<	98	70-130		
1,2,4-Trichlorobenzene		5.2	0.50	ug/L	6	<	86	70-130		
1,2,4-Trimethylbenzene		5.5	0.50	ug/L	6	<	92	70-130		
1,2-Dibromo-3-chloropropane (DBCP)		5.6	2.0	ug/L	6	<	93	70-130		
FINAL REPORT								Report ID:	: 0928202	3143535

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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651-201-5300

## Amended Report Quality Control

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

Program Code: LS
Program Name: Special Investigation

Collected By: Lucas Martin Collector ID: None

Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

Analyte	Matrix Spike (B3I1020-MS1)		Source: 2310	304-01	Prepared: 09/12/23 12:07 Analyzed: 09/12/23 12:07							
1.2-Dichloromenthane (EDB)	Analyte		Result		Units	•		%REC	%REC Limits	RPD		
1,2-Dichloroethane	1,2-Dibromoethane (EDB)	, ,	6.5		ug/L			108	70-130			
1,2-Dichloropropane         7,0         0,20         ug/L         6         <	1,2-Dichlorobenzene		5.7	0.20	ug/L	6	<	95	70-130			
1.3.5-Trimethylbenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.5-Dichloropropane 1.5-Dichloropropane 1.5-Dichlorobenzene 1.5	1,2-Dichloroethane		6.9	0.20	ug/L	6	<	116	70-130			
1.3-Dichlorobenzene   6.1   0.20   ug/L   6   < 102   70-130     1.3-Dichloropropane   6.4   0.20   ug/L   6   < 106   70-130     1.4-Dichloropropane   6.4   0.20   ug/L   6   < 100   70-130     2.2-Dichloropropane   M1   8.6   0.50   ug/L   6   < 143   70-130     2.2-Dichloropropane   M1   8.6   0.50   ug/L   6   < 143   70-130     2.2-Dichlorobroluene   5.8   0.50   ug/L   6   < 196   70-130     4-Chlorotoluene   7.5   0.50   ug/L   6   < 100   70-130     A-Cetone   V1, Z-01a   80   20   ug/L   6   < 100   70-130     Allyl chloride   7.5   0.50   ug/L   6   < 125   70-130     Benzene   7.4   0.20   ug/L   6   < 125   70-130     Benzene   7.1   0.50   ug/L   6   < 124   70-130     Bromobenzane   7.1   0.50   ug/L   6   < 124   70-130     Bromodichloromethane   7.1   0.50   ug/L   6   < 118   70-130     Bromodichloromethane   7.1   0.50   ug/L   6   < 118   70-130     Bromodimmethane   V1   7.7   1.0   ug/L   6   < 118   70-130     Bromodimmethane   V1   7.7   1.0   ug/L   6   < 118   70-130     Chlorobenzene   6.3   0.20   ug/L   6   < 118   70-130     Chloromethane   V1   7.7   1.0   ug/L   6   < 118   70-130     Chloromethane   V1   7.7   1.0   ug/L   6   < 118   70-130     Chloromethane   7.1   0.50   ug/L   6   < 106   70-130     Chloromethane   7.1   0.50   ug/L   6   < 101   70-130     Chloromethane   7.1   0.50   ug/L   6   < 101   70-130     Chloromethane   7.1   0.0   ug/L	1,2-Dichloropropane		7.0	0.20	ug/L	6	<	118	70-130			
1,3-Dichloropropane         6.4         0.20         ug/L         6         <	1,3,5-Trimethylbenzene		5.6	0.50	ug/L	6	<	93	70-130			
1.4-Dichlorobenzene         6.0         0.20         ug/L         6         <	1,3-Dichlorobenzene		6.1	0.20	ug/L	6	<	102	70-130			
2,2-Dichloropropane         M1         8,6         0,50         ug/L         6         <         143         70-130           2-Chlorotoluene         5,8         0,50         ug/L         6         <	1,3-Dichloropropane		6.4	0.20	ug/L	6	<	106	70-130			
2-Chlorotoluene	1,4-Dichlorobenzene		6.0	0.20	ug/L	6	<	100	70-130			
4-Chlorolouene   6.0   0.50   ug/L   6   <   100   70-130   Acetone   V1, Z-01a   80   20   ug/L   60   <   133   70-130   Allyl chloride   7.5   0.50   ug/L   6   <   125   70-130   Benzene   7.4   0.20   ug/L   6   <   124   70-130   Bromobenzene   5.9   0.20   ug/L   6   <   98   70-130   Bromodichloromethane   7.1   0.50   ug/L   6   <   98   70-130   Bromodichloromethane   19   0.20   ug/L   6   <   118   70-130   Bromodichloromethane   7.1   0.50   ug/L   6   <   118   70-130   Bromodichloromethane   7.1   0.50   ug/L   6   <   118   70-130   Bromodichloromethane   7.7   1.0   ug/L   6   <   114   70-130   Bromodichloromethane   V1   7.7   1.0   ug/L   6   <   114   70-130   Bromodichloromethane   N1   8.2   0.20   ug/L   6   <   114   70-130   Carbon tetrachloride   M1   8.2   0.20   ug/L   6   <   128   70-130   Chlorodibromomethane   11   0.50   ug/L   6   <   106   70-130   Chlorodibromomethane   6   0.50   ug/L   6   <   106   70-130   Chlorodibromomethane   7.1   1.0   ug/L   6   <   101   70-130   Chlorodibromomethane   7.1   1.0   ug/L   6   <   101   70-130   Chlorodibromomethane   7.1   1.0   ug/L   6   <   118   70-130   Chlorodibromomethane   7.1   1.0   ug/L   6   <   118   70-130   Chlorodibromomethane   7.1   1.0   ug/L   6   <   118   70-130   Chlorodibromomethane   7.2   0.50   ug/L   6   <   118   70-130   Chlorodifluoromethane   7.2   0.50   ug/L   6   <   118   70-130   Dibromomethane   7.2   0.50   ug/L   6   <   118   70-130   Dibromomethane   7.2   0.50   ug/L   6   <   118   70-130   Dibromomethane   M1   8.1   0.50   ug/L   6   <   118   70-130   Dibromomethane   M1   8.1   0.50   ug/L   6   <   119   70-130   Dibromomethane   M1   8.1   0.50   ug/L   6   <   119   70-130   Dibromomethane   M1   8.1   0.50   ug/L   6   <   119   70-130   Dibromomethane   M1   8.1   0.50   ug/L   6   <   119   70-130   Dibromomethane   6   0.50   ug/L   6   <   119   70-130   Dibromomethane   7.2   0.50   ug/L   6   <   119   70-130   Dibromomethane   7.3   0.50   ug/L   6   <   119   70-130   Dibr	2,2-Dichloropropane	M1	8.6	0.50	ug/L	6	<	143	70-130			
Acetone         V1, Z-01a         80         20         ug/L         60         <         133         70-130           Allyl chloride         7.5         0.50         ug/L         6         <	2-Chlorotoluene		5.8	0.50	ug/L	6	<	96	70-130			
Allyl chloride	4-Chlorotoluene		6.0	0.50	ug/L	6	<	100	70-130			
Benzene         7.4         0.20         ug/L         6         <         124         70-130           Bromobenzene         5.9         0.20         ug/L         6         <	Acetone	V1, Z-01a	80	20	ug/L	60	<	133	70-130			
Bromobenzene   5.9   0.20   ug/L   6   <   98   70-130	Allyl chloride		7.5	0.50	ug/L	6	<	125	70-130			
Bromochloromethane         7.1         0.50         ug/L         6         <         118         70-130           Bromodichloromethane         19         0.20         ug/L         6         12         123         70-130           Bromoform         7.3         0.50         ug/L         6         <	Benzene		7.4	0.20	ug/L	6	<	124	70-130			
Bromodichloromethane         19         0.20         ug/L         6         12         123         70-130           Bromoform         7.3         0.50         ug/L         6         <	Bromobenzene		5.9	0.20	ug/L	6	<	98	70-130			
Bromoform         7.3         0.50         ug/L         6         <         114         70-130           Bromomethane         V1         7.7         1.0         ug/L         6         <	Bromochloromethane		7.1	0.50	ug/L	6	<	118	70-130			
Bromomethane         V1         7.7         1.0         ug/L         6         <         128         70-130           Carbon tetrachloride         M1         8.2         0.20         ug/L         6         <         137         70-130           Chlorobenzene         6.3         0.20         ug/L         6         <         106         70-130           Chlorodibromomethane         11         0.50         ug/L         6         4.4         115         70-130           Chloroform         6.1         0.50         ug/L         6         4.4         115         70-130           Chloromethane         7.1         1.0         ug/L         6         25         101         70-130           Chloromethane         7.1         1.0         ug/L         6         2         118         70-130           Cis-1,3-Dichloropropene         5.8         0.20         ug/L         6         4         97         70-130           Dibromomethane         7.2         0.50         ug/L         6         4         97         70-130           Dichlorofluoromethane         M1         8.1         0.50         ug/L         6         4         135 <t< td=""><td>Bromodichloromethane</td><td></td><td>19</td><td>0.20</td><td>ug/L</td><td>6</td><td>12</td><td>123</td><td>70-130</td><td></td><td></td></t<>	Bromodichloromethane		19	0.20	ug/L	6	12	123	70-130			
Carbon tetrachloride         M1         8.2         0.20         ug/L         6         <         137         70-130           Chlorobenzene         6.3         0.20         ug/L         6         <         106         70-130           Chlorodibromomethane         11         0.50         ug/L         6         4.4         115         70-130           Chloroform         6.1         0.50         ug/L         6         2.5         101         70-130           Chloromethane         7.1         1.0         ug/L         6         2.5         101         70-130           Chloromethane         7.1         1.0         ug/L         6         2.5         101         70-130           Cis-1,2-Dichlorogropene         5.8         0.20         ug/L         6         <         116         70-130           Dibromomethane         7.2         0.50         ug/L         6         <         120         70-130           Dichlorofluoromethane         M1         8.1         0.50         ug/L         6         <         135         70-130           Ethyl ether         7.2         2.0         ug/L         6         <         119         70-130	Bromoform		7.3	0.50	ug/L	6	<	114	70-130			
Chlorobenzene 6.3 0.20 ug/L 6 < 106 70-130 Chlorodibromomethane 11 0.50 ug/L 6 4.4 115 70-130 Chloroethane 6.1 0.50 ug/L 6 4.4 115 70-130 Chloroform 31 0.10 ug/L 6 25 101 70-130 Chloromethane 7.1 1.0 ug/L 6 5 118 70-130 Chloromethane 7.0 0.20 ug/L 6 5 118 70-130 cis-1,2-Dichloroethene 7.0 0.20 ug/L 6 5 116 70-130 cis-1,3-Dichloropropene 5.8 0.20 ug/L 6 5 116 70-130 Dibromomethane 7.2 0.50 ug/L 6 5 120 70-130 Dichlorodifluoromethane 7.2 0.50 ug/L 6 5 70-130 Dichlorofiluoromethane 7.2 0.50 ug/L 6 5 70-130 Dichlorofiluoromethane 81 0.50 ug/L 6 5 135 70-130 Ethyl ether 7.2 2.0 ug/L 6 5 119 70-130 Ethyl ether 7.2 2.0 ug/L 6 5 70-130 Ethyl ether 7.2 2.0 ug/L 6 5 70-130 Ethyl ether 7.2 0.50 ug/L 6 70-130 Ethyl ether 7.2 0.50 ug/L 6 70-130	Bromomethane	V1	7.7	1.0	ug/L	6	<	128	70-130			
Chlorodibromomethane         11         0.50         ug/L         6         4.4         115         70-130           Chloroethane         6.1         0.50         ug/L         6         4.4         115         70-130           Chloroform         31         0.10         ug/L         6         25         101         70-130           Chloromethane         7.1         1.0         ug/L         6         25         101         70-130           Chloropethane         7.1         1.0         ug/L         6         <         118         70-130           Cis-1,2-Dichloropethane         7.0         0.20         ug/L         6         <         116         70-130           cis-1,3-Dichloropropene         5.8         0.20         ug/L         6         <         97         70-130           Dibriomomethane         7.2         0.50         ug/L         6         <         97         70-130           Dichlorofiluoromethane         M1         8.1         0.50         ug/L         6         <         95         70-130           Ethyl ether         7.2         2.0         ug/L         6         <         119         70-130	Carbon tetrachloride	M1	8.2	0.20	ug/L	6	<	137	70-130			
Chloroethane         6.1         0.50         ug/L         6         <         101         70-130           Chloroform         31         0.10         ug/L         6         25         101         70-130           Chloromethane         7.1         1.0         ug/L         6         <         118         70-130           Cis-1,2-Dichloroethene         7.0         0.20         ug/L         6         <         116         70-130           cis-1,3-Dichloropropene         5.8         0.20         ug/L         6         <         97         70-130           Dibromomethane         7.2         0.50         ug/L         6         <         120         70-130           Dichlorofluoromethane         M1         8.1         0.50         ug/L         6         <         95         70-130           Ethyl ether         7.2         2.0         ug/L         6         <         119         70-130           Ethylbenzene         6.1         0.50         ug/L         6         <         119         70-130           Hexachlorobutadiene         6.0         1.0         ug/L         6         <         100         70-130           I	Chlorobenzene		6.3	0.20	ug/L	6	<	106	70-130			
Chloroform         31         0.10         ug/L         6         25         101         70-130           Chloromethane         7.1         1.0         ug/L         6         <	Chlorodibromomethane		11	0.50	ug/L	6	4.4	115	70-130			
Chloromethane 7.1 1.0 ug/L 6 < 118 70-130 cis-1,2-Dichloroethene 7.0 0.20 ug/L 6 < 116 70-130 cis-1,3-Dichloropropene 5.8 0.20 ug/L 6 < 97 70-130 Dibromomethane 7.2 0.50 ug/L 6 < 120 70-130 Dichlorodifluoromethane 5.7 1.0 ug/L 6 < 95 70-130 Dichlorofluoromethane 7.2 0.50 ug/L 6 < 95 70-130 Dichlorofluoromethane 7.2 2.0 ug/L 6 < 135 70-130 Dichlorofluoromethane 8.1 0.50 ug/L 6 < 135 70-130 Dichlorofluoromethane 7.2 2.0 ug/L 6 < 119 70-130 Dichlorofluoromethane 8.1 0.50 ug/L 6 < 110 70-130 Dichlorofluoromethane 9.1 0.50 ug/L 6 < 100 70-130 Dichlorofluoromethane 9.1 0.50 Ug/L 6 Ug/L 6 < 100 70-130 Dichlorofluoromethane 9.1 0.50 Ug/L 6 Ug/L	Chloroethane		6.1	0.50	ug/L	6	<	101	70-130			
cis-1,2-Dichloroethene       7.0       0.20       ug/L       6       <       116       70-130         cis-1,3-Dichloropropene       5.8       0.20       ug/L       6       <	Chloroform		31	0.10	ug/L	6	25	101	70-130			
cis-1,3-Dichloropropene       5.8       0.20       ug/L       6       <	Chloromethane		7.1	1.0	ug/L	6	<	118	70-130			
Dibromomethane         7.2         0.50         ug/L         6          120         70-130           Dichlorodifluoromethane         5.7         1.0         ug/L         6         <         95         70-130           Dichlorofluoromethane         M1         8.1         0.50         ug/L         6         <         135         70-130           Ethyl ether         7.2         2.0         ug/L         6         <         119         70-130           Ethylbenzene         6.1         0.50         ug/L         6         <         102         70-130           Hexachlorobutadiene         6.0         1.0         ug/L         6         <         100         70-130           Isopropylbenzene         6.0         0.50         ug/L         6         <         100         70-130	cis-1,2-Dichloroethene		7.0	0.20	ug/L	6	<	116	70-130			
Dichlorodifluoromethane         5.7         1.0         ug/L         6         <         95         70-130           Dichlorofluoromethane         M1         8.1         0.50         ug/L         6         <	cis-1,3-Dichloropropene		5.8	0.20	ug/L	6	<	97	70-130			
Dichlorofluoromethane         M1         8.1         0.50         ug/L         6         <         135         70-130           Ethyl ether         7.2         2.0         ug/L         6         <	Dibromomethane		7.2	0.50	ug/L	6	<	120	70-130			
Ethyl ether       7.2       2.0       ug/L       6       <	Dichlorodifluoromethane		5.7	1.0	ug/L	6	<	95	70-130			
Ethylbenzene       6.1       0.50       ug/L       6       <	Dichlorofluoromethane	M1	8.1	0.50	ug/L	6	<	135	70-130			
Hexachlorobutadiene       6.0       1.0       ug/L       6       <	Ethyl ether		7.2	2.0	ug/L	6	<	119	70-130			
Isopropylbenzene 6.0 0.50 ug/L 6 < 100 70-130	Ethylbenzene		6.1	0.50	ug/L	6	<	102	70-130			
5.0 0.00 U	Hexachlorobutadiene		6.0	1.0	ug/L	6	<	100	70-130			
Methyl ethyl ketone (MEK) 35 10 ug/L 30 < 116 70-130	Isopropylbenzene		6.0	0.50	ug/L	6	<	100	70-130			
	Methyl ethyl ketone (MEK)		35	10	ug/L	30	<	116	70-130			

FINAL REPORT

Authorized by:

The results in this report apply only to the samples analyzed.

Report ID: 09282023143535

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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651-201-5300

## Amended Report **Quality Control**

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1020 - EPA 524 Prep

Program Name: Special Investigation Collected By: Lucas Martin

Program Code: LS

Collector ID: None

Matrix Spike (B3I1020-MS1)		Source: 2310	304-01	Prepare	ed: 09/12/23	12:07 Anal	yzed: 09/12/2	23 12:07		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methyl isobutyl ketone (MIBK)		29	5.0	ug/L	30	<	92	70-130		
Methyl tertiary butyl ether (MTBE)		6.8	2.0	ug/L	6	<	113	70-130		
Methylene chloride		7.2	0.50	ug/L	6	<	120	70-130		
Naphthalene		5.0	1.0	ug/L	6	<	84	70-130		
n-Butylbenzene		5.5	0.50	ug/L	6	<	92	70-130		
n-Propylbenzene		6.0	0.50	ug/L	6	<	100	70-130		
o-Xylene		5.8	0.20	ug/L	6	<	95	70-130		
p and m-Xylene		6.2	0.30	ug/L	6	<	101	70-130		
p-Isopropyltoluene		5.6	0.50	ug/L	6	<	94	70-130		
sec-Butylbenzene		5.8	0.50	ug/L	6	<	96	70-130		
Styrene		6.2	0.50	ug/L	6	<	102	70-130		
tert-Butylbenzene		5.6	0.50	ug/L	6	<	93	70-130		
Tetrachloroethene		6.8	0.20	ug/L	6	<	114	70-130		
Tetrahydrofuran (THF)		71	10	ug/L	60	<	118	70-130		
Toluene		5.8	0.20	ug/L	6	<	97	70-130		
trans-1,2-Dichloroethene		7.6	0.10	ug/L	6	<	126	70-130		
trans-1,3-Dichloropropene		6.9	0.20	ug/L	6	<	114	70-130		
Trichloroethene (TCE)		7.4	0.10	ug/L	6	<	123	70-130		
Trichlorofluoromethane	M1	8.2	0.50	ug/L	6	<	137	70-130		
Vinyl chloride		7.2	0.20	ug/L	6	<	121	70-130		

FINAL REPORT Report ID: 09282023143535

Authorized by:

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1032 - 1,4 Diox	ane in Water SPE									
Blank (B3I1032-BLK1)				Prepare	ed: 09/12/23	3 10:53 Anal	yzed: 09/12/2	23 16:17		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane		<	0.050	ug/L						
LCS (B3I1032-BS1)				Prepare	ed: 09/12/23	3 10:53 Anal	yzed: 09/12/2	23 16:00		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane		0.20	0.050	ug/L	0.20		102	80-120		
Duplicate (B3I1032-DUP1)		Source: 2310	420-06	Prepare	ed: 09/12/23	3 10:53 Anal	yzed: 09/12/2	23 16:50		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane		<	0.050	ug/L		<				30
Matrix Spike (B3I1032-MS1)		Source: 2310	420-07	Prepare	ed: 09/12/23	3 10:53 Anal	yzed: 09/12/2	23 17:22		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	,	0.45	0.050	ug/L	0.45	<	100	70-130		

FINAL REPORT Report ID: 09282023143535

Authorized by:

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1106 - BNA SDWA Extraction

Blank (B3I1106-BLK1)				Prepare	ed: 09/14/23	8 08:03 Anal	yzed: 09/14/2	23 13:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate:	T4	92	70-130	%	5					
1,3-Dimethyl-2-nitrobenzene										
Surrogate: Perylene-d12	T4	94	70-130	%	5					
Surrogate: Triphenyl Phosphate	T4	103	70-130	%	5					
Alachlor	T4	<	0.20	ug/L						
Aldrin	T4	<	0.20	ug/L						
Atrazine	T4	<	0.10	ug/L						
Benzo[a]pyrene	T4	<	0.020	ug/L						
Butachlor	T4	<	0.20	ug/L						
Di(2-ethylhexyl) adipate	T4	<	0.60	ug/L						
Di(2-ethylhexyl) phthalate	T4	<	0.60	ug/L						
Dieldrin	T4	<	0.20	ug/L						
Endrin	T4	<	0.010	ug/L						
g-BHC (Lindane)	T4	<	0.020	ug/L						
Heptachlor	T4	<	0.040	ug/L						
Heptachlor epoxide	T4	<	0.020	ug/L						
Hexachlorobenzene	T4	<	0.10	ug/L						
Hexachlorocyclopentadiene	T4	<	0.10	ug/L						
Methoxychlor	T4	<	0.10	ug/L						
Metolachlor	T4	<	0.20	ug/L						
Metribuzin	T4	<	0.50	ug/L						
Propachlor	T4	<	0.20	ug/L						
Simazine	T4	<	0.070	ug/L						

#### LCS (B3I1106-BS1)

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate:	T4	96	70-130	%	5					
1,3-Dimethyl-2-nitrobenzene										
Surrogate: Perylene-d12	T4	92	70-130	%	5					
Surrogate: Triphenyl Phosphate	T4	108	70-130	%	5					
Alachlor	T4	2.2	0.20	ug/L	2		112	70-130		
Aldrin	T4	1.6	0.20	ug/L	2		81	70-130		
Atrazine	T4	1.0	0.10	ug/L	1		105	70-130		
Benzo[a]pyrene	T4	0.18	0.020	ug/L	0.2		90	70-130		
Butachlor	T4	2.3	0.20	ug/L	2		113	70-130		
FINAL REPORT								Report ID:	0928202	3143535

Authorized by:

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Stepa Saisni

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report **Quality Control**

St. Paul, MN 55164-0899 651-201-5300

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

#### Batch B3I1106 - BNA SDWA Extraction

LCS (B3I1106-BS1)				Prepared: 09/14/23 08:03 Analyzed: 09/14/23 13:39							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Di(2-ethylhexyl) adipate	T4	6.5	0.60	ug/L	6		108	70-130			
Di(2-ethylhexyl) phthalate	T4	6.3	0.60	ug/L	6		105	70-130			
Dieldrin	T4	2.0	0.20	ug/L	2		102	70-130			
Endrin	T4	0.090	0.010	ug/L	0.1		90	70-130			
g-BHC (Lindane)	T4	0.20	0.020	ug/L	0.2		100	70-130			
Heptachlor	T4	0.37	0.040	ug/L	0.4		92	70-130			
Heptachlor epoxide	T4	0.22	0.020	ug/L	0.2		110	70-130			
Hexachlorobenzene	T4	0.90	0.10	ug/L	1		90	70-130			
Hexachlorocyclopentadiene	T4	0.80	0.10	ug/L	1		80	70-130			
Methoxychlor	T4	1.0	0.10	ug/L	1		102	70-130			
Metolachlor	T4	2.2	0.20	ug/L	2		110	70-130			
Metribuzin	T4	4.7	0.50	ug/L	5		95	70-130			
Propachlor	T4	2.4	0.20	ug/L	2		119	70-130			
Simazine	T4	0.82	0.070	ug/L	0.7		117	70-130			

## Batch B3I1138 - BNA 505 Prep

Blank (	(B3I1138-BLK1)	

	Analyte		Reporting	
Analyte	Qualifier(s)	Result	Limit	Units
Technical Chlordane	T4	<	0.10	ug/L
Toxaphene	T4	<	0.80	ug/L

#### LCS (B3I1138-BS1)

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits
Technical Chlordane	T4	<	0.10	ug/L				70-130
Toxaphene	T4	2.2	0.80	ug/L	2.5		89	70-130

#### MRL Check (B3I1138-MRL1)

MRL Check (B3I1138-MRL1)		Prepared: 09/15/23 08:13 Analyzed: 09/15/23 11:41										
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Technical Chlordane	T4	0.16	0.10	ug/L	0.2		80	60-140				
Toxaphene	T4	<	0.80	ug/L				60-140				

FINAL REPORT

Report ID: 09282023143535

**RPD** 

Limit

RPD

Limit

**RPD** 

RPD

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Prepared: 09/15/23 08:13 Analyzed: 09/15/23 11:22

%REC

%REC Limits

Source

Result

Prepared: 09/15/23 08:13 Analyzed: 09/15/23 14:40

Spike

Level

Authorized by:

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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651-201-5300

## Amended Report Quality Control

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin Collector ID: None

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1138 - BNA 505 Prep

MRL Check (B3I1138-MRL2)				Prepared: 09/15/23 08:13 Analyzed: 09/15/23 12:01								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Technical Chlordane	T4	<	0.10	ug/L				60-140				
Toxaphene	Т4	0.89	0.80	ug/L	1		89	60-140				
Matrix Spike (B3I1138-MS1)		Source: 23104	120-06	Prepare	ed: 09/15/23	08:13 Anal	yzed: 09/15/2	3 13:21				
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Technical Chlordane	T4	<	0.11	ug/L		<		65-135				
Toxaphene	M1, T4	4.6	0.86	ug/L	2.67	<	171	65-135				

FINAL REPORT Report ID: 09282023143535

Authorized by:

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Stefan Saconi

## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1011 - Carbamate Preparation

Blank (B3I1011-BLK1)				Prepare	Prepared: 09/12/23 12:23 Analyzed: 09/12/23 12:23									
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit				
Surrogate: BDMC		99	70-130	%	2					-				
3-Hydroxycarbofuran		<	0.50	ug/L										
Aldicarb		<	0.50	ug/L										
Aldicarb sulfone		<	0.50	ug/L										
Aldicarb sulfoxide		<	0.50	ug/L										
Carbaryl		<	0.50	ug/L										
Carbofuran		<	0.50	ug/L										
Methomyl		<	0.50	ug/L										
Oxamyl		<	0.50	ug/L										

#### LCS (B3I1011-BS1)

#### Prepared: 09/12/23 18:14 Analyzed: 09/12/23 18:14

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: BDMC		95	70-130	%	2					
3-Hydroxycarbofuran		2.1	0.50	ug/L	2		106	70-130		
Aldicarb		2.2	0.50	ug/L	2		108	70-130		
Aldicarb sulfone		2.0	0.50	ug/L	2		100	70-130		
Aldicarb sulfoxide		2.0	0.50	ug/L	2		102	70-130		
Carbaryl		2.1	0.50	ug/L	2		104	70-130		
Carbofuran		2.1	0.50	ug/L	2		104	70-130		
Methomyl		2.0	0.50	ug/L	2		102	70-130		
Oxamyl		2.1	0.50	ug/L	2		103	70-130		

## LCS (B3I1011-BS2)

#### Prepared: 09/13/23 03:24 Analyzed: 09/13/23 03:24

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: BDMC		88	70-130	%	2					
3-Hydroxycarbofuran		4.2	0.50	ug/L	4		106	70-130		
Aldicarb		4.3	0.50	ug/L	4		107	70-130		
Aldicarb sulfone		4.1	0.50	ug/L	4		102	70-130		
Aldicarb sulfoxide		4.2	0.50	ug/L	4		105	70-130		
Carbaryl		4.4	0.50	ug/L	4		109	70-130		
Carbofuran		4.1	0.50	ug/L	4		103	70-130		
Methomyl		4.0	0.50	ug/L	4		100	70-130		
Oxamyl		4.1	0.50	ug/L	4		103	70-130		

FINAL REPORT

Report ID: 09282023143535

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Stefan Saison

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1011 - Carbamate Preparation

Matrix Spike (B3I1011-MS1)		Source: 23102	217-03	Prepared: 09/12/23 15:44 Analyzed: 09/12/23 15:44									
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit			
Surrogate: BDMC		99	70-130	%	2								
3-Hydroxycarbofuran		2.1	0.50	ug/L	2	<	105	70-130					
Aldicarb		2.2	0.50	ug/L	2	<	110	70-130					
Aldicarb sulfone		1.9	0.50	ug/L	2	<	97	70-130					
Aldicarb sulfoxide		2.0	0.50	ug/L	2	<	100	70-130					
Carbaryl		2.1	0.50	ug/L	2	<	106	70-130					
Carbofuran		2.0	0.50	ug/L	2	<	102	70-130					
Methomyl		2.0	0.50	ug/L	2	<	100	70-130					
Oxamyl		2.0	0.50	ug/L	2	<	101	70-130					

Matrix Spike Dup (B3I1011-MSD1)

Source: 23I0217-03

Prepared: 09/12/23 16:34 Analyzed: 09/12/23 16:34

	1												
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit			
Surrogate: BDMC		94	70-130	%	2								
3-Hydroxycarbofuran		2.0	0.50	ug/L	2	<	101	70-130	4	30			
Aldicarb		2.0	0.50	ug/L	2	<	102	70-130	8	30			
Aldicarb sulfone		1.9	0.50	ug/L	2	<	96	70-130	0.7	30			
Aldicarb sulfoxide		2.0	0.50	ug/L	2	<	98	70-130	2	30			
Carbaryl		2.1	0.50	ug/L	2	<	104	70-130	1	30			
Carbofuran		2.0	0.50	ug/L	2	<	102	70-130	0.3	30			
Methomyl		1.9	0.50	ug/L	2	<	96	70-130	4	30			
Oxamyl		2.0	0.50	ug/L	2	<	100	70-130	1	30			

FINAL REPORT Report ID: 09282023143535

Authorized by:

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## Amended Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Lucas Martin

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: Stillwater

Generated: 09/28/23 14:35

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1010 - Glyphosa	ate Preparation									
Blank (B3I1010-BLK1)				Prepare	ed: 09/12/23	3 09:54 Anal	lyzed: 09/12/2	23 09:54		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Glyphosate		<	5.0	ug/L						
LCS (B3I1010-BS1)				Prepare	ed: 09/12/23	3 10:56 Anal	lyzed: 09/12/2	23 10:56		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Glyphosate		49	5.0	ug/L	50		98	80-120		
Matrix Spike (B3I1010-MS1)		Source: 2310	264-02	Prepare	ed: 09/12/23	3 10:39 Anal	lyzed: 09/12/2	23 10:39		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Glyphosate		49	5.0	ug/L	50	<	97	80-120	•	

FINAL REPORT Report ID: 09282023143535

Authorized by:

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## Amended Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01e	The sample was a trip blank and the target analyte was not detected in the associated client sample.
Z-01d	Sample was collected in a 250 mL container.
Z-01c	Sample was collected in a 1 L container.
Z-01b	No usable MS data due to lab accident.
Z-01a	Matrix spike recovery was high. Blank spike was also high. Target analyte not detected in sample.
Z-01	Filter contains <2.5 mg of residue.
V3	Calibration verification standard recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed. See comments or additional qualifiers.
V1	Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.
T5	The reported result cannot be used for compliance purposes.
T4	Laboratory not accredited for this parameter.
M1	Matrix spike and/or matrix spike duplicate recovery was high; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
F7	Submission does not meet Laboratory Sample Acceptance Policy. See comments or additional qualifiers.
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

FINAL REPORT Report ID: 09282023143535

Authorized by:

%REC

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Percent Recovery



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0425

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

http://www.haalth.man.ya/diva/mhl/anvinamaantal

## Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: None

Collected By: Kim Larsen Collector ID: None

Program Name: Special Investigation

Generated: 09/18/23 16:39

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Education L1	2310425-01	Drinking Water	09/11/23 17:31	09/11/23 18:47	13.2
Education L2	2310425-02	Drinking Water	09/11/23 17:39	09/11/23 18:47	13.2
Education LB	2310425-03	Drinking Water	09/11/23 17:53	09/11/23 18:47	13.2
Education BH	2310425-04	Drinking Water	09/11/23 17:47	09/11/23 18:47	13.2

FINAL REPORT Report ID: 09182023163949

Authorized by:

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Stefan Saroni

	ST.		20	19	18	17	16	15	14	13	12	11	10	9	∞	7	6	5	4	ω	2	_	Line #	
( ) car   pr	A lock-	Relinquished by/Affilaition																Education Staff Both	Education BH	Ebucation LB	Education L2	2000		
7	2																		9111/23	9/11/23	9111/23	9111/23	Collection Date	
9/11/23 18:47		Date Time																	17:47	17:53	17:39	17:31	Collection Time	
, W C	All Burney	Accepted by/Affiliation					·												Kim Larsen	Kim Larsen	KinLarsen	Kim Larsen	Collector Name	
	Hom	n I	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Sample Type	
				23																			1L HDPE	#
	09/11/23	Date	-	10425															_	_		_	150mL Sterial, Na2S2O3	# Containers collected
	18:44	Time																		da.	_		250ml HDPE, HNO3	cted
_																			1			P:	age 3 of	14



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



**Parcel Information** Date & time of receipt:

	urier: ☑ Walk-in ☐ FedEx ☐ Spee-Dee ☐ UPS ☐ USPS ☐ Other courier
	acking #
	ent drop-off:  Refrigerator (1) (186) (207) ( )  Freezer (185) ( )  Unrefrigerated
	rcel: 🖾 Plastic cooler 🗆 Styrofoam/cardboard cooler 🗀 Cardboard box 🗀 Envelope 🗀 Plastic can
	None Other
	stody seals present: No 🗆 Yes, If "Yes" Custody seals intact: 🗆 Yes 🗆 No
Cı	stody seal # Evidentiary samples identified:   No  Yes
	Packaging & Temperature Information
Pa	cking material:   Bubble wrap  Styrofoam  Paper  None  Other
Co	oling material: ☑ Wet ice (loose) □ Wet ice pack #( ) □ Gel pack #( ) □ Dry ice □ None
	Refrigerator (1) (186) (207) ( )
	ndition of cooling material: 🗹 Solid 🛘 Partially frozen 🗖 Liquid; Liquid temperature:°C 🔲 N/A
Re	presentative sample temperature: 13,2 °C IR thermometer used: 3-19
Ev	dence of freezing:  Yes X No
iti	ils of person receiving parcel:
	Chain of Custody, Sample Container, & Analysis Information
Ch	ain of Custody received: 'A Yes
Ch	ain of Custody type:  Standard Civil Criminal Biological Priority/Emergency Unknown
ΑII	containers unique to Chain of Custody: Xi Yes
Αll	containers collected prior to expiration date: Ya Yes
AII	containers received intact:   Yes  No
	containers received per COC submission: 💖 es 🗆 No
ΑII	containers are appropriate for requested analysis: Yes
All	analysis received within specified holding time: 🖎 Yes 🔲 No 🖂 Unknown
Ra	I Chem. request received: $\square$ Yes $\checkmark$ No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr
	Chem. meter calibration date verified: 🗆 Yes 🖼 🎖 🖰 O

**ENV ESR FORM 1001** version 2.0

## Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

Collected by: Kim Larsen

City: None Generated: 09/18/2023 16:39

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Authorized by:

Report ID: 09182023163949

The results in this report apply only to the samples analyzed.

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report **Analytical Results**

Program Code: LS

Collector ID: None

Program Name: Special Investigation

Collected By: Kim Larsen

Project ID: MN Correctional Facility - Stillwater Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:39

MDH Sample Number: 23I0425-01

Location ID: Education L1

Field Name: None Sampling Point: None QA Type: None

Collect Date: 09/11/23

Collect Time: 17:31 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

Units

Batch

Prepared

#### **Microbiological Parameters**

Analyte

Analyte

Coliform, Total	<b>L</b>	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	50.3	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:14	EPA 200.8

7 that yes	Qualifier(s)	toouit	Limit	OTINO	Baton	1 Toparou	, analyzou	Metriod
Copper	Z-01	50.3	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:14	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:41	EPA 200.7
Manganese	Z-01	21.9	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:14	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:14	EPA 200.8

FINAL REPORT

Report ID: 09182023163949

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Authorized by:

## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Kim Larsen

Location ID: Education L2

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:39

MDH Sample Number: 23I0425-02

Collect Date: 09/11/23

Collect Time: 17:39 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Sampling Point: None QA Type: None

Analyte

Field Name: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	139	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:17	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:43	EPA 200.7
Manganese	Z-01	22.6	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:17	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:17	EPA 200.8

FINAL REPORT Report ID: 09182023163949

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 7 of 14

## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Kim Larsen

Location ID: Education LB

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:39

MDH Sample Number: 23I0425-03

Collect Date: 09/11/23

Collect Time: 17:53

Reporting

Result

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	37.6	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:20	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:45	EPA 200.7
Manganese	Z-01	26.8	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:20	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:20	EPA 200.8

FINAL REPORT Report ID: 09182023163949

Authorized by:

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Kim Larsen

Location ID: Education BH

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Generated: 09/18/23 16:39

MDH Sample Number: 23I0425-04

Collect Date: 09/11/23

Collect Time: 17:47
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

Drinking Water F

Batch

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total	<b></b>	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	91.4	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:23	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:47	EPA 200.7
Manganese	Z-01	22.1	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:23	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:23	EPA 200.8

FINAL REPORT Report ID: 09182023163949

Authorized by:

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Stelan Sarani

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 9 of 14

## Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collector ID: None

Collected By: Kim Larsen

Facility Name/ID: 1820002

Project ID: MN Correctional Facility - Stillwater

City: None

Generated: 09/18/23 16:39

**Batch Summary** 

Samples in Batch: B3I1013 - Microbiology Prep

2310425-01 2310425-02 2310425-03

2310425-04

Samples in Batch: B3I1035 - EPA 200 Series Prep

2310425-01 2310425-02

2310425-03

2310425-04

Samples in Batch: B3I1093 - Metals Prep

2310425-01 2310425-02 2310425-03

2310425-04

FINAL REPORT

Authorized by:

Report ID: 09182023163949

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Kim Larsen

City: None

Collector ID: None

Generated: 09/18/23 16:39

#### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1035-BLK1)				Б	J. 00/40/00	44.05 4		0.45.47		
Blatik (B311033-BLK1)			<b>.</b>	Prepare			yzed: 09/13/2	3 15:47		555
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1035-BS1)				Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 15:50		
	Analyte		Reporting		Spike	Source				RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Copper		50.2		ug/L	50		100	85-115		
Lead		49.3		ug/L	50		99	85-115		
Manganese		50.3		ug/L	50		101	85-115		
Duplicate (B3I1035-DUP1)		Source: 2310	1419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 15:59		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		14.0	10.0	ug/L		13.9			0.6	20
Lead		<	1.00	ug/L		<				20
Manganese		27.4	10.0	ug/L		27.3			0.6	20
Duplicate (B3I1035-DUP2)		Source: 2310	1426-03	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		<	1.00	ug/L		<				20
Manganese		2.26	10.0	ug/L		<			2	20
Duplicate (B3I1035-DUP3)		Source: 2310	426-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	23 13:37		
	Analyte		Reporting		Spike	Source	-			RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Copper		179	10.0	ug/L		178			0.6	20
Matrix Spike (B3I1035-MS1)		Source: 2310	419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte Qualifier(s)	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del></del>	62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 11 of 14

## Final Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: None

Collected By: Kim Larsen

Generated: 09/18/23 16:39

Results were produced by Minnesota Department of Health, except where noted.

Matrix Spike (B3I1035-MS1)		Source: 23I0419-06		Prepared: 09/12/23 11:05 Analyzed: 09/13/23 16:02						
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Manganese	,,	77.3		ug/L	50		100	70-130		
Matrix Spike (B3I1035-MS2)		Source: 2310	1426-03	Prepare	d: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Lead	, ,	51.9		ug/L	50		104	70-130		
Manganese		52.7		ug/L	50		101	70-130		
Matrix Spike (B3l1035-MS3)		Source: 2310	426-03RE1	Prepare	d: 09/15/23	08:33 Anal	yzed: 09/15/2	3 13:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Copper	( )	225		ug/L	50		94	70-130		
Batch B3I1093 - Metals Prep	)									
Blank (B3l1093-BLK1)				Prepare	d: 09/13/23	16:17 Anal	yzed: 09/14/2	3 12:38		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Iron		<	20.0	ug/L						
LCS (B3I1093-BS1)				Prepare	d: 09/13/23	16:17 Anal	yzed: 09/14/2	3 12:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
		054		/1	1,000		95	85-115		
Iron		951		ug/L	1,000		00			
Iron  Duplicate (B3I1093-DUP1)		951 Source: 2310	1419-05	-		16:17 Anal	yzed: 09/14/2			
	Analyte Qualifier(s)		0419-05 Reporting Limit	-		16:17 Anal Source Result			RPD	
Duplicate (B3I1093-DUP1)	•	Source: 2310	Reporting	Prepare	d: <b>09/13/23</b> Spike	Source	yzed: 09/14/2	3 12:44	RPD	Lim
Duplicate (B3I1093-DUP1)  Analyte	•	Source: 2310 Result	Reporting Limit 20.0	Prepare Units ug/L	d: <b>09/13/23</b> Spike Level	Source Result <	yzed: 09/14/2	3 12:44 %REC Limits	RPD	Lim
Duplicate (B3I1093-DUP1)  Analyte Iron	•	Source: 23l0 Result	Reporting Limit 20.0	Prepare Units ug/L	d: <b>09/13/23</b> Spike Level	Source Result <	yzed: 09/14/2 %REC	3 12:44 %REC Limits	RPD	RPE Lim 20 RPE Lim

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## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collector ID: None

Collected By: Kim Larsen

Generated: 09/18/23 16:39

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1093 - Metals Prep

Program Name: Special Investigation

Matrix Spike (B3I1093-MS1)		Source: 23I0419-05	Prepare	Prepared: 09/13/23 16:17 Analyzed: 09/14/23 13:13					
Analyte	Analyte Qualifier(s)	Reporting Result Limit	g Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		914	ug/L	1,000		91	85-115		
Matrix Spike (B3I1093-MS2)		Source: 23I0420-05	Prepare	Prepared: 09/13/23 16:17 Analyzed: 09/14/23 13:39					
Analyte	Analyte Qualifier(s)	Reporting Result Limit	g Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	(-)	1010	ug/L	1,000		101	85-115		

FINAL REPORT Report ID: 09182023163949

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## Final Report Quality Control

### **Data Qualifiers and Definitions**

Z-01 Sample was collected in a 250 mL container.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT Report ID: 09182023163949

Authorized by:

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Stefan Saconi



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0426

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

http://www.haalth.ma.va/diva/ahl/anvinannaatal

# Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: None

Collected By: Brenda Collector ID: None

Program Name: Special Investigation

Generated: 09/18/23 16:37

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Industry Staff Breakroom	2310426-01	Drinking Water	09/11/23 17:27	09/11/23 18:47	13.2
Industry Carpentry	2310426-02	Drinking Water	09/11/23 17:33	09/11/23 18:47	13.2
Industry Shop S	2310426-03	Drinking Water	09/11/23 17:37	09/11/23 18:47	13.2
Industry Shop A	2310426-04	Drinking Water	09/11/23 17:45	09/11/23 18:47	13.2
Industry Building Maintenance	2310426-05	Drinking Water	09/11/23 17:56	09/11/23 18:47	13.2

FINAL REPORT Report ID: 09182023163742

Authorized by:

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Stefan Saroni

			20	3 5	19	18	17	16	15	14	13	12	11	10	9	∞	7	6	5	4	ω	2		#	Line	
Jey W	for Lasani	Relinquished by/Affilaition																1 (4) 1	12	Industry Shop A		to dustry Givent	TY A	Location ID	Triwaler	1117
dul	(MDH 9/11								(*)									27.00	9/11/23	9/11/23	5 9/11/23	9/11/23	1/1123	Collection Date	5	0
18:48	1236:04	Date Time																L	5356 pm	5,45pm	5:37 m	5:33 pm	5'27 pm	Collection Time	2	
	Markener	Accepted by/Affiliation																	Branda	Brenda	Brend 1	Brenda	Bionds	Collector Name		
	Ham	n	DW	DW	2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW			Sample 1	
				Veren																				unpreserved	1L HDPE	#
	09/11/23	Date		2310426	Ę															1	_			100	SACT 150mL Sterial,	# Containers collected
		Time																			_		_	HNO3	Metals 250ml HDPF	ted
4				-00	- 12	- 20		= 75								S - 10							P	age	3 of 1	9

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## **Sample Condition Upon Receipt**

Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



SEP 11'23 18:47

Parcel Information Date & time of receipt:
Courier:   Walk-in □ FedEx □ Spee-Dee □ UPS □ USPS □ Other courier  Tracking #
Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Unrefrigerated  Parcel: ☐ Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can
None □ Other
Custody seals present:   No □ Yes, If "Yes" Custody seals intact: □ Yes □ No
Custody seal # Evidentiary samples identified:  \[ \sum \text{No} \sum \text{Yes} \]
Packaging & Temperature Information
Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☒ None ☐ Other
Cooling material: ☑ Wet ice (loose) ☐ Wet ice pack #( ) ☐ Gel pack #( ) ☐ Dry ice ☐ None
□ Refrigerator (1) (186) (207) ( ) □ Freezer (185) ( ) □ Other
Condition of cooling material: ★ Solid
Representative sample temperature: $13.2  ^{\circ}$ C IR thermometer used: $3-19$
Evidence of freezing:   Yes No
nitials of person receiving parcel:
Chain of Custody, Sample Container, & Analysis Information
Chain of Custody received: XYes
Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Biological ☑ Priority/Emergency ☐ Unknown
All containers unique to Chain of Custody: Yes  No
All containers collected prior to expiration date: Pres
All containers received intact: Yes 🗆 No
All containers received per COC submission: Tyes  No
All containers are appropriate for requested analysis: 🛱 Yes 🗆 No 🗀 Unknown
All analysis received within specified holding time: 🖾 es 🗆 No 🗅 Unknown
Rad Chem. request received: $\square$ Yes $\square$ No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr
Rad Chem. meter calibration date verified:  Yes Wo

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request into LIMS:

73

## Final Report Case Narrative

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

Collected by: Brenda

City: None

Collector ID: None Generated: 09/18/2023 16:37

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023163742

Authorized by: The results in this report apply only to the samples analyzed.

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### **Final Report Analytical Results**

Program Code: LS

Program Name: Special Investigation

Location ID: Industry Staff Breakroom

Collected By: Brenda

Collector ID: None

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-01

Collect Date: 09/11/23

Collect Time: 17:27

Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Coliform, Total	Calainier (5)	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	100	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:26	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:48	EPA 200.7
Manganese	Z-01	43.3	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:26	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:26	EPA 200.8

FINAL REPORT Report ID: 09182023163742

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-02

Field Name: None Sampling Point: None QA Type: None

Location ID: Industry Carpentry

Collect Date: 09/11/23 Collect Time: 17:33

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Analyte Iron	,	Result <		Units ug/L	Batch B3I1093	Prepared 09/14/23 07:13	Analyzed 09/14/23 13:50	Method EPA 200.7
	Qualifier(s)		Limit				•	

FINAL REPORT Report ID: 09182023163742

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Industry Carpentry

Collected By: Brenda

Field Name: None

QA Type: None

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-02RE1

Collect Date: 09/11/23

Collect Time: 17:33

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01	11.5	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:31	EPA 200.8	_

FINAL REPORT Report ID: 09182023163742

Authorized by:

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Stefan Saroni

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Location ID: Industry Shop S

Collected By: Brenda

Field Name: None

QA Type: None

Analyte

Lead

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

ug/L

Batch

B3I1035

Prepared

09/12/23 11:05

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-03

Collect Date: 09/11/23

Collect Time: 17:37 Matrix: Drinking Water

Reporting

1.00

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

09/13/23 16:37

EPA 200.8

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte

Z-01

Analyte	Oualifier(s)	Result	Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	Α (- /	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:52	EPA 200.7
Manganese	Z-01	<	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:37	EPA 200.8

FINAL REPORT Report ID: 09182023163742

Authorized by:

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Industry Shop S

Collected By: Brenda

Field Name: None

QA Type: None

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-03RE1

Collect Date: 09/11/23

Collect Time: 17:37
Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01	178	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:34	EPA 200.8	_

FINAL REPORT Report ID: 09182023163742

Authorized by:

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Tufan Saunni

## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Location ID: Industry Shop A

Collected By: Brenda

Field Name: None

QA Type: None

Analyte

Sampling Point: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:37

MDH Sample Number: 2310426-04

Collect Date: 09/11/23

Collect Time: 17:45 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Result

Analyte

Results were produced by the Minnesota Department of Health, except where noted.

### **Microbiological Parameters**

Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01	54.3	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:54	EPA 200.7
Manganese	Z-01	14.1	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:46	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:46	EPA 200.8

FINAL REPORT Report ID: 09182023163742

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-04RE1

Location ID: Industry Shop A Collect Date: 09/11/23

Field Name: None Collect Time: 17:45
Sampling Point: None Matrix: Drinking Water
QA Type: None

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01	162	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:43	EPA 200.8	_

FINAL REPORT Report ID: 09182023163742

Authorized by:

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Stefan Saisoni

## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-05

Location ID: Industry Building Maintenance

Field Name: None Sampling Point: None QA Type: None

Collect Date: 09/11/23 Collect Time: 17:56

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	333333(5)	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Analyte Iron	•	Result <		Units ug/L	Batch B3I1093	Prepared 09/14/23 07:13	Analyzed 09/14/23 13:56	Method EPA 200.7
	Qualifier(s)		Limit			'		

FINAL REPORT Report ID: 09182023163742

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-05RE1

Location ID: Industry Building Maintenance

Field Name: None Sampling Point: None QA Type: None Collect Date: 09/11/23
Collect Time: 17:56

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	32.8	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:46	EPA 200.8

FINAL REPORT Report ID: 09182023163742

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Stefan Saroni

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 14 of 19

## Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:37

### **Batch Summary**

Samples in Batch: B3I1013 - Microbiology Prep

2310426-01 2310426-02

2310426-03

2310426-04

2310426-05

Samples in Batch: B3I1035 - EPA 200 Series Prep

2310426-01 2310426-05 2310426-02 23I0426-05RE1 23I0426-02RE1

2310426-03

23I0426-03RE1

2310426-04

23I0426-04RE1

Samples in Batch: B3I1093 - Metals Prep

23I0426-01

2310426-02

2310426-03

2310426-04

2310426-05

FINAL REPORT Report ID: 09182023163742

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collected By: Brenda Collector ID: None

Generated: 09/18/23 16:37

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1035 - EPA 200	Series Prep									
Blank (B3l1035-BLK1)				Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 15:47		
Analyte	Analyte Qualifier(s)	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<u> </u>	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1035-BS1)				Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 15:50		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del>(</del> - )	50.2		ug/L	50		100	85-115		
Lead		49.3		ug/L	50		99	85-115		
Manganese		50.3		ug/L	50		101	85-115		
Duplicate (B3I1035-DUP1)		Source: 2310	419-06	Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 15:59		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del>(</del> - )	14.0	10.0	ug/L		13.9			0.6	20
Lead		<	1.00	ug/L		<				20
Manganese		27.4	10.0	ug/L		27.3			0.6	20
Duplicate (B3I1035-DUP2)		Source: 2310	1426-03	Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 16:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead	3,33,311(3)	<	1.00	ug/L		<				20
Manganese		2.26	10.0	ug/L		<			2	20
Duplicate (B3I1035-DUP3)		Source: 2310	426-03RE1	Prepare	ed: 09/15/23	3 08:33 Anal	yzed: 09/15/2	23 13:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	ανωνον(ο)	179	10.0	ug/L		178			0.6	20
Matrix Spike (B3I1035-MS1)		Source: 2310	1419-06	Prepare	ed: 09/12/23	3 11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del>- 4(-)</del>	62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		
FINAL REPORT								Report ID:	0018202	021627

Authorized by:

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## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda

City: None

Collector ID: None

Generated: 09/18/23 16:37

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1035 - EPA 200 S	. с. тор									
Matrix Spike (B3I1035-MS1)		Source: 2310	)419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Manganese		77.3		ug/L	50		100	70-130		
Matrix Spike (B3I1035-MS2)		Source: 2310	)426-03	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead	` '	51.9		ug/L	50		104	70-130		
Manganese		52.7		ug/L	50		101	70-130		
Matrix Spike (B3I1035-MS3)		Source: 2310	)426-03RE1	Prepare	ed: 09/15/23	08:33 Ana	lyzed: 09/15/2	3 13:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	, ,	225		ug/L	50		94	70-130		
Batch B3I1093 - Metals Pre	p									
Blank (B3I1093-BLK1)				Prepare	ed: 09/13/23	16:17 Ana	lyzed: 09/14/2	3 12:38		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						
LCS (B3I1093-BS1)				Prepare	ed: 09/13/23	16:17 Ana	lyzed: 09/14/2	3 12:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Iron		951		ug/L	1,000		95	85-115		
Duplicate (B3I1093-DUP1)		Source: 2310	)419-05	Prepare	ed: 09/13/23	16:17 Ana	lyzed: 09/14/2	3 12:44		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Iron	. (7	<	20.0	ug/L		<				20
Duplicate (B3I1093-DUP2)		Source: 2310	)420-05	Prepare	ed: 09/13/23	16:17 Ana	lyzed: 09/14/2	3 13:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Iron		9.46	20.0	ug/L		<			15	20
FINAL REPORT								Report ID:	. 0019202	21627

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## Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collected By: Brenda Collector ID: None

Generated: 09/18/23 16:37

#### Results were produced by Minnesota Department of Health, except where noted.

### Batch B3I1093 - Metals Prep

Program Name: Special Investigation

latrix Spike (B3l1093-MS1) Source: 23l0419-05				Prepared: 09/13/23 16:17 Analyzed: 09/14/23 13:13							
Analyte	Analyte Qualifier(s)	Reporting Result Limit	g Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Iron		914	ug/L	1,000		91	85-115				
Matrix Spike (B3I1093-MS2)		Source: 23I0420-05	Prepare	ed: 09/13/23	16:17 Anal	yzed: 09/14/2	3 13:39				
Analyte	Analyte Qualifier(s)	Reporting Result Limit	g Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Iron	(-)	1010	ug/L	1,000		101	85-115				

FINAL REPORT Report ID: 09182023163742

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## Final Report **Quality Control**

### **Data Qualifiers and Definitions**

Z-01 Sample was collected in a 250 mL container.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT Report ID: 09182023163742

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Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0427

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

http://www.haalth.ma.va/diva/ahl/anvinannaatal

## Final Report Summary of Samples Received

Program Code: LS

Collector ID: None

Program Name: Special Investigation

Collected By: Brenda / Corey

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

City: None

Generated: 09/18/23 16:35

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
Health Services Pill Area	2310427-01	Drinking Water	09/11/23 15:36	09/11/23 18:47	18.4
Kitchen Food Prep	2310427-02	Drinking Water	09/11/23 15:44	09/11/23 18:47	18.4
Kitchen Dish Room	2310427-03	Drinking Water	09/11/23 15:49	09/11/23 18:47	18.4
Rec Lower Area	2310427-04	Drinking Water	09/11/23 15:57	09/11/23 18:47	18.4
Rec Upper Area	2310427-05	Drinking Water	09/11/23 16:03	09/11/23 18:47	18.4
Health Services Staff Area	2310427-06	Drinking Water	09/11/23 16:10	09/11/23 18:47	18.4
BW - 812	2310427-07	Drinking Water	09/11/23 16:36	09/11/23 18:47	18.4
BW Swamp Closet	2310427-08	Drinking Water	09/11/23 16:43	09/11/23 18:47	18.4

FINAL REPORT Report ID: 09182023163534

Authorized by:

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	2	Ŗ	20	19	18	17	16	15	14	13	12	11	10	9	∞	7	6	5	4	ω	2	ы	_	Line	
Janh	nossay known	Relinquished by/Affilaition													Bla Swenget	PW-812	Heat Sams sta		Rec Lower Alea	Kitchen Dish	Kitchen Ford	Health Services P.11 Alo	Location ID		
16	2 9/11														9/1//23	9/11/23	9/11/23	9/11/23	1/11/23	911123	9/11/123	9/11/23	Collection Date		
54.9 8 c/11	123 4:53	Date Time													4.43	4:36 pm	4:1003	4:03 pm	3157 0m	3349 pm	3;44 pm	3;36 pm	Collection Time		
OMI		Accepted						¥iii							Blenda	0007	1	0		Ċ		Brendon E	Collector Name	7	
	Boner	Accepted by/Affiliation	DW	DW	DW	DW	DW	DW	DW	DW	Wd	DW	DW	DW	0,700 BW	0,63 may	May 601.0	0,10 ms/L DW	May "cm OO.C	0,25m6/Low	0.03 ma/2 bw	), 23 mg/L	70		*
	MOH				<		<	V	V	<b>V</b>	<	<	ν	V	v 1-prcu			N 1-122	N 1-155	N122				Sample 11 HDPF	1
	09/11/2	Date		7											_	_	_		-		_	_	Na2S2O3	BACT) 150mL Sterial	
	23 18:48	Time		10												1							HNO3	Metals Netals	



## **Sample Condition Upon Receipt**

Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 18:4'
Courier:   Walk-in ☐ FedEx ☐ Spee-Dee ☐ UPS ☐ USPS ☐ Other courier  Tracking #
Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Unrefrigerated  Parcel: ☐ Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can ☐ None ☐ Other_
Custody seals present: No
Custody seal # Evidentiary samples identified: \( \sqrt{No} \sqrt{Yes} \)
Packaging & Temperature Information
Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ➤ None ☐ Other
Cooling material:   Wet ice (loose) □ Wet ice pack #( ) □ Gel pack #( ) □ Dry ice □ None
☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Other
Condition of cooling material: ★ Solid ☐ Partially frozen ☐ Liquid; Liquid temperature:°C ☐ N/A
Representative sample temperature: 18,4 °C IR thermometer used: B-19
Evidence of freezing: Yes No
nitials of person receiving parcel:
Chain of Custody, Sample Container, & Analysis Information
Chain of Custody received: Y Yes  No
Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Biological 🏋 Priority/Emergency ☐ Unknown
All containers unique to Chain of Custody: Yes  No
All containers collected prior to expiration date: Yes
All containers received intact: Ves  No
All containers received per COC submission: Wes 🗆 No
All containers are appropriate for requested analysis: XYes
All analysis received within specified holding time: Yes  Unknown
Rad Chem. request received: $\square$ Yes $\square$ Yo, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr
Rad Chem. meter calibration date verified:   Yes No

Sample submission details are entered in the Environmental Laboratory LIMS.

Initials of person logging in the work order request into LIMS:

B

## Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: None

Collected by: Brenda / Corey

Generated: 09/18/2023 16:35

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023163534

Authorized by:

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Stefan Saisoni

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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## Final Report **Analytical Results**

Program Code: LS

Collector ID: None

Program Name: Special Investigation

Collected By: Brenda / Corey

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-01

Location ID: Health Services Pill Area

Field Name: None Sampling Point: None QA Type: None

Collect Date: 09/11/23 Collect Time: 15:36 Matrix: Drinking Water

Field Residual Chlorine Result: 0.23 Field Fluoride Result: None

Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1076	09/13/23 14:12	09/15/23 08:43	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>	i							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	. ( )	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:10	EPA 200.7
Manganese	Z-01b	22.4	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:52	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:52	EPA 200.8

FINAL REPORT

Report ID: 09182023163534

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Location ID: Health Services Pill Area

Collected By: Brenda / Corey

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-01RE1

Collect Date: 09/11/23

Collect Time: 15:36

Matrix: Drinking Water

Field Residual Chlorine Result: 0.23

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01b	169	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:49	EPA 200.8	

FINAL REPORT Report ID: 09182023163534

Authorized by:

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Location ID: Kitchen Food Prep

Collector ID: None

Field Name: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-02

Collect Date: 09/11/23

Collect Time: 15:44

Matrix: Drinking Water

Field Residual Chlorine Result: 0.03

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Sampling Point: None Matrix: Drir
QA Type: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1076	09/13/23 14:12	09/15/23 08:43	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:16	EPA 200.7
Manganese	Z-01b	<	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:55	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:55	EPA 200.8

FINAL REPORT

Report ID: 09182023163534

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## Final Report **Analytical Results**

MDH Sample Number: 23I0427-02RE1

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: None Generated: 09/18/23 16:35

Collector ID: None

Location ID: Kitchen Food Prep

Collect Date: 09/11/23 Collect Time: 15:44

Field Residual Chlorine Result: 0.03

Field Name: None Sampling Point: None QA Type: None

Matrix: Drinking Water

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01b	48.3	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:52	EPA 200.8	_

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# Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-03

Location ID: Kitchen Dish Room

Field Name: None Sampling Point: None QA Type: None Collect Date: 09/11/23
Collect Time: 15:49

Collect Time: 15:49

Matrix: Drinking Water

Field Residual Chlorine Result: 0.25

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	1.2	1.0	mg/L	B3I1076	09/13/23 14:12	09/15/23 08:44	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:17	EPA 200.7
Manganese	Z-01b	22.3	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:58	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:58	EPA 200.8

FINAL REPORT

Report ID: 09182023163534

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## Final Report Analytical Results

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: None Generated: 09/18/23 16:35

Collector ID: None

Field Name: None

QA Type: None

Sampling Point: None

MDH Sample Number: 23I0427-03RE1

Location ID: Kitchen Dish Room

Collect Date: 09/11/23
Collect Time: 15:49

Field Residual Chlorine Result: 0.25

Collect Time: 15:49
Matrix: Drinking Water

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method	
Copper	Z-01b	43.8	10.0	ua/L	B3I1035	09/15/23 08:33	09/15/23 13:55	EPA 200.8	_

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Field Name: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-04

Collect Date: 09/11/23

Collect Time: 15:57 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.00

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Sampling Point: None QA Type: None

Location ID: Rec Lower Area

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1076	09/13/23 14:12	09/15/23 08:44	SM 2540 D 22nd ED
<b>Microbiological Paramet</b>	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	V1, Z-01b	<	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:01	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:19	EPA 200.7
Manganese	Z-01b	10.1	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:01	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:01	EPA 200.8

FINAL REPORT

Report ID: 09182023163534

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-05

Location ID: Rec Upper Area

Analyte

Field Name: None Sampling Point: None QA Type: None

Collect Date: 09/11/23 Collect Time: 16:03 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.10

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting <u>Limit</u>	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	1.2	1.0	mg/L	B3I1076	09/13/23 14:12	09/15/23 08:44	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	. ()	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	16.6	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:57	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:21	EPA 200.7
Manganese	Z-01b	41.6	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:57	EPA 200.8
Lead	Z-01a	3.76	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 17:57	EPA 200.8

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:35

MDH Sample Number: 2310427-06

Location ID: Health Services Staff Area

Analyte

Field Name: None Sampling Point: None QA Type: None

Analyte

Collect Date: 09/11/23

Collect Time: 16:10 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.10

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

	Qualifier(s)		Limit					
Solids, Suspended	Z-01	1.2	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:40	SM 2540 D 22nd ED
Microbiological Paramete	ers							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a ´	302	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 18:00	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:23	EPA 200.7
Manganese	Z-01b	13.2	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 18:00	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 18:00	EPA 200.8

FINAL REPORT

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## Final Report **Analytical Results**

Program Code: LS

Analyte

Program Name: Special Investigation

Collected By: Brenda / Corey

Location ID: BW - 812

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-07

Collect Date: 09/11/23

Collect Time: 16:36 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.63

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:40	SM 2540 D 22nd ED
<b>Microbiological Parameter</b>	'S							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	V1, Z-01b	<	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:04	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:25	EPA 200.7
Manganese	Z-01b	16.2	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:04	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:04	EPA 200.8

FINAL REPORT

Report ID: 09182023163534

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## Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-08

Location ID: BW Swamp Closet

Analyte

Field Name: None Sampling Point: None QA Type: None

Analyte

Collect Date: 09/11/23 Collect Time: 16:43 Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.70

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
<b>Metal Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	38.7	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 18:09	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:26	EPA 200.7
Manganese	Z-01b	24.4	10.0	ug/L	B3I1065	09/13/23 08:48	09/13/23 18:09	EPA 200.8
Lead	Z-01a	2.19	1.00	ug/L	B3I1065	09/13/23 08:48	09/13/23 18:09	EPA 200.8

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#### Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Brenda / Corey

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:35

**Batch Summary** 

Samples in Batch: B3I1013 - Microbiology Prep

2310427-01 2310427-02

2310427-03

2310427-04

2310427-05

2310427-06

2310427-07

Samples in Batch: B3I1035 - EPA 200 Series Prep

2310427-01 2310427-07

2310427-08

23I0427-01RE1

2310427-02

23I0427-02RE1

2310427-03

23I0427-03RE1

2310427-04

Samples in Batch: B3I1065 - EPA 200 Series Prep

2310427-05

2310427-06

2310427-08

Samples in Batch: B3I1075 - General Chemistry Prep

2310427-06

2310427-07

Samples in Batch: B3l1076 - General Chemistry Prep

2310427-01

2310427-02

2310427-03

2310427-04

2310427-05

Samples in Batch: B3I1094 - Metals Prep

2310427-01 2310427-08 2310427-02

2310427-03

2310427-04

2310427-05

2310427-06

2310427-07

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Authorized by:

Report ID: 09182023163534

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: None

Collector ID: None

Generated: 09/18/23 16:35

#### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1075-BLK1)				Prepare	ed: 09/13/23	3 14:11 Anal	yzed: 09/15/2	3 08:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Solids, Suspended	<u> </u>	<	1.0	mg/L						
Duplicate (B3I1075-DUP1)		Source: 2310	1408-01	Prepare	ed: 09/13/23	3 14:11 Anal	yzed: 09/15/2	3 08:37		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Solids, Suspended	Z-01	<	1.0	mg/L		1.200				5
Duplicate (B3I1075-DUP2)		Source: 2310	408-06	Prepare	ed: 09/13/23	3 14:11 Anal	yzed: 09/15/2	3 08:37		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Solids, Suspended	Z-01	1.200	1.0	mg/L		<				5
Reference (B3I1075-SRM1)				Prepare	ed: 09/13/23	3 14:11 Anal	yzed: 09/15/2	3 08:36		
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Solids, Suspended		46.00	2.5	mg/L	44.8		103	79.7-107		
Batch B3I1076 - General	Chemistry Prep									
Blank (B3I1076-BLK1)				Prepare	ed: 09/13/23	3 14:12 Anal	lyzed: 09/15/2	3 08:42		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Solids, Suspended	( )	<	1.0	mg/L						
Duplicate (B3I1076-DUP1)		Source: 2310	1427-01	Prepare	ed: 09/13/23	3 14:12 Anal	lyzed: 09/15/2	3 08:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Solids, Suspended	Z-01	<	1.0	mg/L		<				5
Reference (B3I1076-SRM1)				Prepare	ed: 09/13/23	3 14:12 Anal	lyzed: 09/15/2	3 08:43		
	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
Analyte	Qualifier(s)									

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: None

Collector ID: None

Generated: 09/18/23 16:35

#### Results were produced by Minnesota Department of Health, except where noted.

Series Prep									
			Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 15:47		
Analyte		Reporting	•	Spike	Source				RPD
Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
	<	10.0	ug/L						
	<	1.00							
	<	10.0	ug/L						
			Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 15:50		
Analyte	Dogult	Reporting	Lleite	Spike	Source	0/ DEC	0/ DEC Limita	DDD	RPD
Qualifier(s)		Limit		Level	Result			RPD	Limit
			-						
			-						
	50.3		ug/L	50		101	85-115		
	Source: 23I0	419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 15:59		
Analyte	D It	Reporting	11.2.	Spike	Source	0/ DEO	0/ DEO Limite	DDD	RPD
Qualifier(s)		Limit		Level	Result	%REC	%REC LIMITS		Limit
			•					0.6	20
			-						20
	27.4	10.0	ug/L		27.3			0.6	20
	Source: 23I0	426-03	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:40		
Analyte	Dogult	Reporting	Lleite	Spike	Source	0/ DEC	0/ DEC Limita	DDD	RPD
Qualifier(s)		Limit		Level	Result	%REC	%REC LIMITS	RPD	Limit
			-						20
	2.26	10.0	ug/L		<			2	20
	Source: 23I0	426-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	23 13:37		
Analyte	Dogult	Reporting	Lleite	Spike	Source	0/ DEC	0/ DEC Limita	DDD	RPD
Qualifier(s)				Level		70REC	%REC LITTIES		Limit
	179	10.0	ug/L		178			0.6	20
	Source: 23I0	419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
	62.4		ug/L	50		97	70-130		
			-						
	Analyte Qualifier(s)  Analyte Qualifier(s)  Analyte Qualifier(s)  Analyte Qualifier(s)	Analyte Qualifier(s)  Analyte Result  Analyte Qualifier(s)  Analyte Result  Analyte Result	Analyte Qualifier(s)  Analyte Result Limit    10.0	Analyte Qualifier(s)  Analyte Result Limit    Compare	Analyte	Analyte	Analyte	Analyte	Analyte

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#### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collector ID: None

Generated: 09/18/23 16:35

Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1035 - EPA 200	Series Prep									
Matrix Spike (B3I1035-MS1)		Source: 2310	419-06	Prepare	d: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPE Lim
Manganese	2000000000	77.3		ug/L	50		100	70-130		
Matrix Spike (B3I1035-MS2)		Source: 2310	426-03	Prepare	d: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:43		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Lead	3,33,311(-)	51.9		ug/L	50		104	70-130		
Manganese		52.7		ug/L	50		101	70-130		
Matrix Spike (B3l1035-MS3)		Source: 2310	426-03RE1	Prepare	d: 09/15/23	08:33 Anal	yzed: 09/15/2	3 13:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Lim
Copper	(-)	225		ug/L	50		94	70-130		
Batch B3I1065 - EPA 200	Series Prep									
Blank (B3I1065-BLK1)				Prepare	d: 09/13/23	08:48 Anal	yzed: 09/13/2	3 17:16		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper	V1	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
Blank (B3l1065-BLK2)				Prepare	d: 09/13/23	08:48 Anal	yzed: 09/15/2	3 14:06		
Blank (B3I1065-BLK2) Analyte	Analyte Qualifier(s)	Result	Reporting Limit	<b>Prepare</b> Units	Spike	Source	yzed: 09/15/2 %REC	3 14:06 %REC Limits	RPD	
	Analyte Qualifier(s)	Result <	Reporting Limit 10.0	-			-		RPD	
Analyte Copper	•		Limit	Units	Spike	Source	-		RPD	
Analyte Copper Lead	•	<	10.0	Units ug/L ug/L	Spike Level	Source Result	-	%REC Limits	RPD	RPI
Analyte Copper Lead	•	<	10.0	Units ug/L ug/L	Spike Level	Source Result	%REC	%REC Limits	RPD	
Analyte Copper Lead  LCS (B3I1065-BS1)  Analyte	Qualifier(s)  Analyte	< <	10.0 1.00 Reporting	Units ug/L ug/L Prepare	Spike Level d: 09/13/23 Spike	Source Result  08:48 Anal Source	%REC yzed: 09/13/2	%REC Limits 3 17:19		L im
Analyte Copper Lead LCS (B3I1065-BS1)	Qualifier(s)  Analyte  Qualifier(s)	< < Result	10.0 1.00 Reporting	Units  ug/L  ug/L  Prepare  Units	Spike Level d: 09/13/23 Spike Level	Source Result  08:48 Anal Source	%REC yzed: 09/13/2 %REC	%REC Limits 3 17:19  %REC Limits		Lim RPI
Analyte Copper Lead  LCS (B3I1065-BS1)  Analyte Copper	Qualifier(s)  Analyte  Qualifier(s)	Result 51.0	10.0 1.00 Reporting	Units  ug/L  ug/L  Prepare  Units  ug/L	Spike Level  d: 09/13/23 Spike Level 50	Source Result  08:48 Anal Source	%REC yzed: 09/13/2 %REC 102	%REC Limits 3 17:19  %REC Limits 85-115		L im

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 20 of 24

#### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation Collected By: Brenda / Corey

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Collector ID: None

Generated: 09/18/23 16:35

Results were produced by Minnesota Department of Health, except where noted.

I			
IRatch	RZITORE		Series Prep
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LCS (B3I1065-BS2)				Prepare	ed: 09/13/23	08:48 Ana	yzed: 09/15/2	3 14:09		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		49.0		ug/L	50		98	85-115		
Lead		48.7		ug/L	50		97	85-115		
Duplicate (B3I1065-DUP1)		Source: 2310	)409-03	Prepare	ed: 09/13/23	3 08:48 Ana	yzed: 09/13/2	3 17:28		
	Analyte		Reporting		Spike	Source	-			RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	l imit
Lead		<	1.00	ug/L		<				20
Manganese		49.2	10.0	ug/L		48.1			2	20
Duplicate (B3I1065-DUP2)		Source: 2310	)427-06	Prepare	ed: 09/13/23	8 08:48 Ana	yzed: 09/13/2	3 18:03		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	,	304	10.0	ug/L		302			0.7	20
Lead		<	1.00	ug/L		<				20
Manganese		13.3	10.0	ug/L		13.2			0.7	20
Duplicate (B3I1065-DUP3)		Source: 2310	)409-03RE1	Prepare	ed: 09/15/23	8 08:33 Ana	yzed: 09/15/2	3 14:18		
Analyte	Analyte Qualifier(s)	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		0.79	10.0	ug/L		<			5	20
Lead		<	1.00	ug/L		<				20
Matrix Spike (B3I1065-MS1)		Source: 2310	)409-03	Prepare	ed: 09/13/23	3 08:48 Ana	yzed: 09/13/2	3 17:31		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		49.4		ug/L	50		99	70-130		
Manganese		98.0		ug/L	50		100	70-130		
Matrix Spike (B3I1065-MS2)		Source: 2310	)427-06	Prepare	ed: 09/13/23	8 08:48 Ana	yzed: 09/13/2	3 18:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	. ,	348		ug/L	50		93	70-130		
Lead		53.1		ug/L	50		106	70-130		
Manganese		62.6		ug/L	50		99	70-130		
FINAL REPORT								Report ID:	: 0918202	3163534

Authorized by:

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey

City: None

Collector ID: None

Generated: 09/18/23 16:35

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1065 - EPA 200	Series Prep									
Matrix Spike (B3I1065-MS3)		Source: 2310	409-03RE1	Prepare	d: 09/15/23	3 08:33 Anal	yzed: 09/15/2	23 14:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	47.7		ug/L	50		94	70-130		
Lead		49.9		ug/L	50		100	70-130		
Batch B3I1094 - Metals Pr	ер									
Blank (B3I1094-BLK1)				Prepare	d: 09/13/23	3 16:18 Anal	yzed: 09/14/2	23 14:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	Quaimer(s)	<	20.0	ug/L	rever	RESUII				1 11111
LCS (B3I1094-BS1)				Prepare	d: 09/13/23	3 16:18 Anal	yzed: 09/14/2	23 14:08		
Analyte	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	Qualifier(s)	1020	LIMIL	ug/L	1,000	RAGIIII	102	85-115		Limii
Duplicate (B3I1094-DUP1)		Source: 23I0	427-01	Prepare	d: 09/13/23	3 16:18 Anal	yzed: 09/14/2	23 14:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	3,33,33,4	6.83	20.0	ug/L		<			3	20
Duplicate (B3I1094-DUP2)		Source: 2310	428-02	Prepare	d: 09/13/23	3 16:18 Anal	yzed: 09/14/2	23 14:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	Quaimer(s)	<	20.0	ug/L	Level	<				20
Matrix Spike (B3I1094-MS1)		Source: 23I0	427-01	Prepare	d: 09/13/23	3 16:18 Anal	yzed: 09/14/2	23 14:13		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		976	Luill	ug/L	1,000		97	85-115		
Matrix Spike (B3I1094-MS2)		Source: 23I0	428-02	Prepare	d: 09/13/23	3 16:18 Anal	yzed: 09/14/2	23 14:38		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	` '	940		ug/L	1,000		93	85-115		
FINAL REPORT								Report ID:	0918202	2316353

Authorized by:

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Stefan Saconi

#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brenda / Corey Collector ID: None

Generated: 09/18/23 16:35

City: None

Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1094 - Metals Prep

FINAL REPORT Report ID: 09182023163534

Authorized by:

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Stefan Saconi

#### Final Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01b Sample was collected in a 250 mL container.

Z-01a Sample was collected in a 1 L container.

Z-01 Filter contains <2.5 mg of residue.

V1 Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT Report ID: 09182023163534

Authorized by:

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Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0428

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

httm://www.r.haalth.mm.va/diva/mh1/anvinamaanta1

# Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

Collected By: Brian Noma

City: None

Collector ID: None

Generated: 09/18/23 16:33

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
CHAPEL IP Bathroom (weird sink fa	2310428-01	Drinking Water	09/11/23 17:27	09/11/23 18:47	6.0
Security Center men's restroom	2310428-02	Drinking Water	09/11/23 17:33	09/11/23 18:47	6.0
Operation Center Breakroom	2310428-03	Drinking Water	09/11/23 17:40	09/11/23 18:47	6.0

FINAL REPORT Report ID: 09182023163322

Authorized by:

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Stefan Saconi

Collection Date Collection Time
七:七
17:33
07:t1
Date Time
Pit   23 17:4
58/11/6
14/23



# Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 18
Courier:   Walk-in □ FedEx □ Spee-Dee □ UPS □ USPS □ Other courier
Tracking #
Client drop-off: $\square$ Refrigerator (1) (186) (207) ( ) $\square$ Freezer (185) ( ) $\square$ Unrefrigerated
Parcel: ☐ Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can
□ None □ Other
Custody seals present: ☐ Yes, If "Yes" Custody seals intact: ☐ Yes ☐ No
Custody seal # Evidentiary samples identified:  \[ \sigma \text{No} \sqrt{Ye} \]
Packaging & Temperature Information
Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☒ None ☐ Other
Cooling material: ☑ Wet ice (loose) □ Wet ice pack #( ) □ Gel pack #( ) □ Dry ice □ None
☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Other
Condition of cooling material: ☐ Solid ☐ Partially frozen ☐ Liquid; Liquid temperature:°C ☐ N,
Representative sample temperature: $6.0$ °C IR thermometer used: $8-19$
Evidence of freezing: ☐ Yes 💆 No
nitials of person receiving parcel:
Chain of Custody, Sample Container, & Analysis Information
Chain of Custody received: X Yes
Chain of Custody type: ☐ Standard ☐ Civil ☐ Criminal ☐ Biological ☒ Priority/Emergency ☐ Unknown
All containers unique to Chain of Custody: Yes  No
All containers collected prior to expiration date: Yes 🗆 No 🗀 Unknown
All containers received intact: Ares   No
All containers received per COC submission: 🛱 es 🗆 No
All containers are appropriate for requested analysis: Yes
All analysis received within specified holding time: Yes
Rad Chem. request received: $\square$ Yes $\square$ No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/hr

Sample submission details are entered in the Environmental Laboratory LIMS:

Initials of person logging in the work order request into LIMS:

ENV ESR FORM 1001

version 2.0

## Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: None

Collected by: Brian Noma

Generated: 09/18/2023 16:32

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023163322

Authorized by:

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Stefan Saconi

#### Final Report Analytical Results

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: None

Collected By: Brian Noma

Generated: 09/18/23 16:33

MDH Sample Number: 23I0428-01

Location ID: CHAPEL IP Bathroom (weird sink faucet)

Collect Date: 09/11/23

Field Residual Chlorine Result: None

Field Name: None Sampling Point: None QA Type: None Collect Time: 17:27
Matrix: Drinking Water

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Iron	Z-01	92.9	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:28	EPA 200.7
Manganese	Z-01	52.0	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:07	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 17:07	EPA 200.8

FINAL REPORT Report ID: 09182023163322

Authorized by:

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Stefan Saroni

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 6 of 15

#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:33

MDH Sample Number: 23I0428-01RE1

Location ID: CHAPEL IP Bathroom (weird sink faucet)

Field Name: None Sampling Point: None QA Type: None Collect Date: 09/11/23

Collect Time: 17:27

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **Metal Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	91.5	10.0	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:57	EPA 200.8

FINAL REPORT Report ID: 09182023163322

Authorized by:

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Stefan Saissai

#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Prepared

Generated: 09/18/23 16:33

MDH Sample Number: 23I0428-02

Location ID: Security Center men's restroom

Analyte

Field Name: None Sampling Point: None QA Type: None

Analyte

Collect Date: 09/11/23 Collect Time: 17:33

Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **Microbiological Parameters**

Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	19.8	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:24	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:34	EPA 200.7
Manganese	Z-01	23.5	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:24	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:24	EPA 200.8

FINAL REPORT Report ID: 09182023163322

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 8 of 15

#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Analyte

Lead

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

ug/L

Batch

B3I1066

Prepared

09/13/23 09:15

Generated: 09/18/23 16:33

MDH Sample Number: 23I0428-03

Collect Date: 09/11/23 Location ID: Operation Center Breakroom

Field Name: None Collect Time: 17:40 Sampling Point: None Matrix: Drinking Water QA Type: None

Analyte

Field Residual Chlorine Result: None

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

09/13/23 18:27

Method

EPA 200.8

Results were produced by the Minnesota Department of Health, except where noted.

Reporting

1.00

Result

#### **Microbiological Parameters**

Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01	60.7	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:27	EPA 200.8
Iron	Z-01	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:40	EPA 200.7
Manganese	Z-01	21.3	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:27	EPA 200.8
Lead	Z-01	<	1.00	ua/l	B3I1066	09/13/23 09:15	09/13/23 18:27	FPA 200 8

FINAL REPORT Report ID: 09182023163322

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 9 of 15

#### Final Report **Quality Control**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:33

**Batch Summary** 

Samples in Batch: B3I1013 - Microbiology Prep

2310428-01 2310428-02 2310428-03

Samples in Batch: B3I1035 - EPA 200 Series Prep

2310428-01 23I0428-01RE1

Samples in Batch: B3I1066 - EPA 200 Series Prep

2310428-02 2310428-03

Samples in Batch: B3I1094 - Metals Prep

2310428-01 2310428-02 2310428-03

FINAL REPORT

Report ID: 09182023163322

Authorized by:

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 10 of 15

#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: None

Collector ID: None

Generated: 09/18/23 16:33

#### Results were produced by Minnesota Department of Health, except where noted.

Blank (B3I1035-BLK1)				D	J. 00/40/00	44.05 A 1		0.45.47		
DIGITA (DOLLOSS-DER I)	A example of a		Damartin	Prepare			yzed: 09/13/2	3 15:47		DDC
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	( )	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1035-BS1)				Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 15:50		
A mali da	Analyte	Daault	Reporting	11-4-	Spike	Source	0/ DEC	0/ DEC 1 : it-	DDD	RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit
Copper		50.2		ug/L	50		100	85-115		
Lead		49.3		ug/L	50		99	85-115		
Manganese		50.3		ug/L	50		101	85-115		
Duplicate (B3I1035-DUP1)		Source: 23I0419-06 Prepared: 09/12/23 11:05 Analyzed: 09/13/23 15:59								
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	. ,	14.0	10.0	ug/L		13.9			0.6	20
Lead		<	1.00	ug/L		<				20
Manganese		27.4	10.0	ug/L		27.3			0.6	20
Duplicate (B3I1035-DUP2)		Source: 2310	426-03	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead		<	1.00	ug/L		<				20
Manganese		2.26	10.0	ug/L		<			2	20
Duplicate (B3I1035-DUP3)		Source: 2310	426-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	23 13:37		
	Analyte		Reporting	-	Spike	Source	-			RPD
Analyte	Qualifier(s)	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	l imit
Copper		179	10.0	ug/L		178			0.6	20
Matrix Spike (B3I1035-MS1)		Source: 2310	419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	<del></del>	62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		

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Stefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 11 of 15

#### Final Report Quality Control

Program Code: LS

Collected By: Brian Noma

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation Facility Name/ID: 1820002

City: None

Collector ID: None Generated: 09/18/23 16:33

#### Results were produced by Minnesota Department of Health, except where noted.

	Series Prep									
Matrix Spike (B3I1035-MS1)		Source: 2310	419-06	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:02		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Manganese		77.3		ug/L	50		100	70-130		
Matrix Spike (B3I1035-MS2)		Source: 2310	1426-03	Prepare	ed: 09/12/23	11:05 Anal	yzed: 09/13/2	3 16:43		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead	( )	51.9		ug/L	50		104	70-130		
Manganese		52.7		ug/L	50		101	70-130		
Matrix Spike (B3I1035-MS3)		Source: 2310	426-03RE1	Prepare	ed: 09/15/23	08:33 Anal	yzed: 09/15/2	23 13:40		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	Qualifier(s)	225		ug/L	50	IXESIIII	94	70-130		
Batch B3I1066 - EPA 200	Series Prep			Prepare	ed: 09/13/23	09:15 Anal	yzed: 09/13/2	23 18:18		
	Analyte		Reporting				,			
Analyte		Result		Units	Spike	Source	%REC	%REC Limits	RPD	RPD Limit
	Qualifier(s)	Result <	Limit 10.0	Units ug/L	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Analyte  Copper  Lead			Limit		•		%REC	%REC Limits	RPD	
Copper		<	Limit 10.0	ug/L	•		%REC	%REC Limits	RPD	
Copper Lead		< <	10.0 1.00	ug/L ug/L ug/L	Level	Result	%REC		RPD	
Copper Lead Manganese	Qualifier(s)  Analyte	< <	10.0 1.00	ug/L ug/L ug/L	Level	Result			RPD RPD	
Copper Lead Manganese LCS (B3I1066-BS1)	Qualifier(s)	< < <	10.0 1.00 10.0 Reporting	ug/L ug/L ug/L <b>Prepare</b>	Level Level ed: 09/13/23 Spike	Result  09:15 Anal Source	yzed: 09/13/2	23 18:21		Limit RPD
Copper Lead Manganese  LCS (B3I1066-BS1)  Analyte	Qualifier(s)  Analyte	< < < Result	10.0 1.00 10.0 Reporting	ug/L ug/L ug/L Prepare	Level  ded: 09/13/23  Spike Level	Result  09:15 Anal Source	yzed: <b>09/13/2</b> %REC	23 18:21 %REC Limits		Limit RPD
Copper Lead Manganese LCS (B3I1066-BS1) Analyte Copper Lead	Qualifier(s)  Analyte	Result 50.9	10.0 1.00 10.0 Reporting	ug/L ug/L ug/L Prepare Units ug/L	Level 19/13/23 Spike Level 50	Result  09:15 Anal Source	yzed: <b>09/13/2</b> %REC 102	23 18:21 %REC Limits 85-115		Limit RPD
Copper Lead Manganese  LCS (B3I1066-BS1)  Analyte  Copper Lead Manganese	Qualifier(s)  Analyte	Result 50.9 49.2	Limit  10.0  1.00  10.0  Reporting Limit	ug/L ug/L ug/L  Prepare Units ug/L ug/L ug/L	Level 50 50 50	Result  99:15 Anal Source Result	%REC 102 98	%REC Limits 85-115 85-115 85-115		Limit RPD
Copper Lead Manganese  LCS (B3I1066-BS1)  Analyte  Copper Lead Manganese	Qualifier(s)  Analyte	Result 50.9 49.2 50.5	Limit  10.0  1.00  10.0  Reporting Limit	ug/L ug/L ug/L  Prepare Units ug/L ug/L ug/L	Level 50 50 50	Result  99:15 Anal Source Result	%REC 102 98 101	%REC Limits 85-115 85-115 85-115		Limit RPD
Copper Lead Manganese  LCS (B3I1066-BS1)  Analyte Copper Lead Manganese  Duplicate (B3I1066-DUP1)	Qualifier(s)  Analyte Qualifier(s)  Analyte	Result 50.9 49.2 50.5 Source: 2310	Limit  10.0  1.00  10.0  Reporting Limit	ug/L ug/L ug/L  Prepare Units ug/L ug/L ug/L	Level 50 50 50 50 Spike	Result  O9:15 Anal Source Result  O9:15 Anal Source	%REC 102 98 101 yzed: <b>09/13/2</b>	%REC Limits 85-115 85-115 85-115 85-115	RPD	RPD Limit

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#### Final Report Quality Control

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: None

Collector ID: None

Generated: 09/18/23 16:33

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1066 - EPA 200 Ser	ries Prep									
Duplicate (B3I1066-DUP1)		Source: 2310	431-01	Prepare	ed: 09/13/23	3 09:15 Ana	lyzed: 09/13/2	23 18:33		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Manganese		22.6	10.0	ug/L		22.5			0.6	20
Matrix Spike (B3I1066-MS1)		Source: 2310	431-01	Prepare	ed: 09/13/23	3 09:15 Ana	lyzed: 09/13/2	23 18:36		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper	. ( )	53.4		ug/L	50		96	70-130		
Lead		49.3		ug/L	50		99	70-130		
Manganese		72.0		ug/L	50		99	70-130		
Batch B3I1094 - Metals Prep										
Blank (B3l1094-BLK1)				Prepare	ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:06		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	<del>(3)</del>	<	20.0	ug/L						
LCS (B3I1094-BS1)	33I1094-BS1)				ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	(-)	1020		ug/L	1,000		102	85-115		
Duplicate (B3I1094-DUP1)		Source: 2310	1427-01	Prepare	ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		6.83	20.0	ug/L		<			3	20
Duplicate (B3I1094-DUP2)		Source: 2310	428-02	Prepare	ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:36		
Analyte	Analyte Oualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	<del>(-)</del>	<	20.0	ug/L		<				20
Matrix Spike (B3l1094-MS1)		Source: 2310	1427-01	Prepare	ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:13		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
FINAL REPORT	. ,							Report ID:		

Authorized by:

Report ID: 09182023163322

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:33

#### Results were produced by Minnesota Department of Health, except where noted.

# Batch B3I1094 - Metals Prep Matrix Spike (B3I1094-MS1) Source: 23I0427-01 Prepared: 09/

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:13

RPD Analyte Reporting Spike Source Result Units %REC %REC Limits RPD Analyte 976 ug/L 1,000 97 85-115 Iron

**Matrix Spike (B3I1094-MS2)** Source: 23I0428-02

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:38

Analyte	Analyte Qualifier(s)	Reporting Result Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	5.5.5(-)	940	ua/L	1.000		93	85-115		

FINAL REPORT

Report ID: 09182023163322

Authorized by:

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I tefan Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01 Sample was collected in a 250 mL container.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

FINAL REPORT Report ID: 09182023163322

Authorized by:

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Stefan Sauni



Protecting, maintaining and improving the health of all Minnesotans

Report Date: 9/18/23

Client Name: LS - Lab - Special Investigation

Project Code: LS

**Project Name: Special Investigation** 

Work Order Number: 23I0431

Report To: LS - Lab - Special Investigation

Stefan Saravia 601 Robert St. N Saint Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology as defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operating procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory.

Sincerely,

Stefan Saravia, Environmental Laboratory Manager

Stefan Saroni

Public Health Laboratory, Minnesota Department of Health

Public Health Laboratory . Environmental Laboratory Section . 601 Robert St. N . PO Box 64899 . St Paul, MN 55164 (651) 201-5300

httm://www.r.haalth.mm.va/diva/mh1/anvinamaanta1

# Final Report Summary of Samples Received

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Facility Name: 1820002

Collected By: Brian Noma

Program Name: Special Investigation

City: None

Collector ID: None Generated: 09/18/23 16:30

Work Order Comment: Samples were received in proper condition unless otherwise specified in the receiving comments.

Loc ID	MDH Sample Number	Matrix	Date & Time Collected	Date & Time Received	Receipt °C
B West 120	2310431-01	Drinking Water	09/11/23 15:48	09/11/23 18:47	0.0
B West 512	2310431-02	Drinking Water	09/11/23 15:58	09/11/23 18:47	0.0
B West 630	2310431-03	Drinking Water	09/11/23 16:10	09/11/23 18:47	0.0
B West 203	2310431-04	Drinking Water	09/11/23 16:18	09/11/23 18:47	0.0
B West 327	2310431-05	Drinking Water	09/11/23 16:27	09/11/23 18:47	0.0
B West 705	2310431-06	Drinking Water	09/11/23 16:35	09/11/23 18:47	0.0
B West 418	2310431-07	Drinking Water	09/11/23 16:40	09/11/23 18:47	0.0

FINAL REPORT Report ID: 09182023163119

Authorized by:

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Stefan Saroni

Sample 11 HDPE  Brian Noma DW    DW DW DW    DW DW DW    DW DW DW DW    DW DW DW DW DW DW DW DW DW DW DW DW DW D		•					#	# Containers collected	ted	_
	Line					Sample	5	Total Coliform	6	101
B Wort 120   9/11/23   15:48   Brian Nome.   Dw   1   1   1   1   1   1   1   1   1	#	Location ID	Collection Date	Collection Time	Collector Name	Туре	unpreserved	Na2S203	HN03	7
28 W64 512. 9   11   23   15:5\$   Brian Nome.   Dw   1   1   1   1   1   1   1   1   1			9/11/23	15:48	Brian Nomer	DW				15.7
B Work 630   9/11/23   16:16   Brian Nomae   Dw   1   1   1   1   1   1   1   1   1	(N	B WOL512	9/11/23	15:53	Brian Noma	DW	_	_	_	7
S Work 203   9/11/23   16:18   BVican Nome   DW   1   1   1   1   1   1   1   1   1	(1)	B West 630	9/11/23	10:10	Brian Noma	DW	_	_	_	12
S   West 237   9   11   23   16:37   Wisen Nowe   W   1   1   1   1   1   1   1   1   1	4	B West 203	9/11/23	10:18	Brian Noma	MQ	-		_	0
6 & Wish 705 9/11   23   16 35   8 is an Norman   1   1   1   1   1   1   1   1   1	u)		9/11/23	t7:01	Brian Noma	DW	_			0
S West 4   S   9/11  23   16 40   Brian Nomo, bw   1   1   1   1   1   1   1   1   1	e		9/11/23	16:35	Brian Nome	DW	_	<u></u>		0
10   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	1	B West 418	9/11/23	07:91		DW	_	_	-	0.8
10   DW   DW   DW   DW   DW   DW   DW   D	ω		Ø.			DW				
10   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	O)					DW				
12   DW   DW     13   DW   DW     14   DW   DW     15   DW   DW     16   DW   DW     17   DW   DW     18   DW   DW     19   DW   DW     10   DW   DW     10   DW   DW     11   DW   DW     12   DW   DW     13   DW   DW     14   DW   DW     15   DW   DW     16   DW   DW     17   Date Time   Accepted by/Affiliation   Date Time   Date     17   DW   DW   DW     18   DW   DW   DW     19   DW   DW     10   DW   DW   DW     10   DW   DW   DW     11   DW   DW   DW     12   DW   DW   DW     13   DW   DW   DW     14   DW   DW   DW     15   DW   DW   DW     16   DW   DW   DW     17   DW   DW   DW     18   DW   DW   DW     19   DW   DW   DW     10   DW   DW   DW     10   DW   DW   DW     11   DW   DW   DW     12   DW   DW   DW     13   DW   DW   DW     14   DW   DW   DW     15   DW   DW   DW     16   DW   DW   DW     17   DW   DW   DW     18   DW   DW   DW     19   DW   DW   DW     10   DW   DW   DW     10   DW   DW   DW     11   DW   DW   DW     12   DW   DW   DW     13   DW   DW   DW     14   DW   DW   DW     15   DW   DW   DW     16   DW   DW   DW     17   DW   DW   DW     18   DW   DW   DW     19   DW   DW   DW     10   DW   DW   DW     10   DW   DW   DW     10   DW   DW   DW     11   DW   DW   DW     12   DW   DW   DW     13   DW   DW   DW     14   DW   DW   DW     15   DW   DW   DW     16   DW   DW   DW     17   DW   DW   DW     18   DW   DW   DW     18   DW   DW   DW     18   DW   DW   DW     19   DW   DW   DW     10   DW   DW   DW     10   DW   DW     10   DW   DW   DW     11   DW   DW   DW     12   DW   DW   DW     13   DW   DW   DW     14   DW   DW   DW     15   DW   DW   DW     16   DW   DW   DW     17   DW   DW   DW     18	10					DW				
12   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	11					DW				
13   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	12					DW				
14	13					DW				
15   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	14					DW				
16   DW   DW   DW   DW   DW   DW   DW   D	15				sg.	DW				
17   Dw   Dw   Dw   Dw   Dw   Dw   Dw   D	16					DW				
18   Dw   23 0431   23 0431   23 0431   20   23 0431   20   23 0431   20   23 0431   20   23 0431   20   23 0431   20   23 0431   20   20   20   20   20   20   20   2	17					DW		Hann		
19   DW   23 0431   23 0431   20	18					DW				
Relinquished by/Affilaition  Relinquished by/Affilaition  Time Accepted by/Affiliation  Date  Mp H  Offilias  Offilias  Date	19					DW		2310431		
Relinquished by/Affiliation Date Time Accepted by/Affiliation Date  Mod 9/11/23   16:51   16:5	20		1			DW				
Fry A front applies loss gett Brown Math 69/11/23	Pa	Relinquished by/Affilaition			Accepted by/Affiliatio	Ę		Date	Time	
The time of the same of the sa	ge 3	B		=	8 110		11	1111		
	of 1	1	10		The same	+	#	7/13		

9/11/23 18:42



### **Sample Condition Upon Receipt**

Minnesota Department of Health Public Health Laboratory

## Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 1	8:4
Courier: 🔀 Walk-in 🗆 FedEx 🗆 Spee-Dee 🗆 UPS 🗆 USPS 🗆 Other courier	
Client drop-off: ☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Unrefrigerated  Parcel: ☑ Plastic cooler ☐ Styrofoam/cardboard cooler ☐ Cardboard box ☐ Envelope ☐ Plastic can ☐ None ☐ Other	
Custody seals present: 🕱 No 🗆 Yes, If "Yes" Custody seals intact: 🗆 Yes 🗀 No	
Custody seal # Evidentiary samples identified: \( \simetize \text{No} \)	
Packaging & Temperature Information	
Packing material: ☐ Bubble wrap ☐ Styrofoam ☐ Paper ☒ None ☐ Other	
Cooling material: ⚠ Wet ice (loose) □ Wet ice pack #( ) □ Gel pack #( ) □ Dry ice □ None	
☐ Refrigerator (1) (186) (207) ( ) ☐ Freezer (185) ( ) ☐ Other	
Condition of cooling material: 🗵 Solid 🗆 Partially frozen 🗆 Liquid; Liquid temperature:°C 🗆	N/A
Representative sample temperature: °C IR thermometer used: C °C IR thermometer used: C C °C C °C R C C °C R C C °C R C C °C R C C C R C	
tials of person receiving parcel:	
Chain of Custody, Sample Container, & Analysis Information	
Chain of Custody received: 🔀 Yes 🗆 No	
Chain of Custody type:  Standard Civil Criminal Biological Priority/Emergency Unknown	
All containers unique to Chain of Custody: Yes 🗆 No	
All containers collected prior to expiration date: Yes	
All containers received intact: Yes  No	
All containers received per COC submission: Ses Submission: No	
All containers are appropriate for requested analysis: Res Ro Ro Unknown	
All analysis received within specified holding time: Wes	
ad Chem. request received: $\square$ Yes $\square$ No, If "Yes" sample survey results: $\square$ < 0.5 mrem/hr $\square$ $\ge$ 0.5 mrem/h ad Chem. meter calibration date verified: $\square$ Yes $\square$ No	r

ENV ESR FORM 1001 version 2.0

Initials of person logging in the work order request into LIMS:

## Final Report Case Narrative

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name: 1820002

City: None

Collected by: Brian Noma

Generated: 09/18/2023 16:30

Except where noted in this report, no additional comments are needed for this Work Order.

FINAL REPORT

Report ID: 09182023163119

Authorized by:

The results in this report apply only to the samples analyzed.

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9 tefar Saconi

Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

Page 5 of 17

#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma Collector ID: None

Location ID: B West 120

Sampling Point: None

Field Name: None

QA Type: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-01

Collect Date: 09/11/23

Collect Time: 15:48 Matrix: Drinking Water Field Fluoride Result: None

Field pH Result: None Field PO<sub>4</sub> Result: None

Field Residual Chlorine Result: 1.56

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:40	SM 2540 D 22nd ED
Microbiological Paramet	ters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	(- <i>)</i>	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:30	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:42	EPA 200.7
Manganese	Z-01a	22.5	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:30	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:30	EPA 200.8

FINAL REPORT

Authorized by:

Report ID: 09182023163119

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Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health

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#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Collector ID: None

QA Type: None

Analyte

Project ID: MN Correctional Facility - Stillwater

Prepared

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-02

Location ID: B West 512 Field Name: None Sampling Point: None Collect Date: 09/11/23
Collect Time: 15:58
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 2.0
Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

	Oualifier(s)		Limit					
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:40	SM 2540 D 22nd ED
Microbiological Paran	neters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:39	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:44	EPA 200.7
Manganese	Z-01a	14.5	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:39	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:39	EPA 200.8

FINAL REPORT

Report ID: 09182023163119

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#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B West 630

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-03

Collect Date: 09/11/23

Collect Time: 16:10
Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 1.34

Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Analyzed

Method

Prepared

Field Name: None Sampling Point: None QA Type: None

Analyte

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Qualifier(s)

Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:40	SM 2540 D 22nd ED
<b>Microbiological Paramete</b>	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	( )	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a ´	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:42	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:45	EPA 200.7
Manganese	Z-01a	14.9	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:42	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:42	EPA 200.8

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Authorized by:

Report ID: 09182023163119

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#### Final Report Analytical Results

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B West 203

Sampling Point: None

Field Name: None

QA Type: None

Analyte

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-04

Collect Date: 09/11/23

Collect Time: 16:18

Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.68

Field Fluoride Result: None Field pH Result: None Field PO4 Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Qualifier(s)

Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:41	SM 2540 D 22nd ED
Microbiological Parameter	rs							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	- ()	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:45	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:47	EPA 200.7
Manganese	Z-01a	27.7	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:45	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:45	EPA 200.8

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Report ID: 09182023163119

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B West 327

Sampling Point: None

Collector ID: None

Field Name: None

QA Type: None

Analyte

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Batch

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-05

Collect Date: 09/11/23

Collect Time: 16:27

Matrix: Drinking Water

Reporting

Result

Field Residual Chlorine Result: 0.65

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Analyzed

Method

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

	(Jualitier(s)		Limit					
Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:41	SM 2540 D 22nd ED
Microbiological Parai	meters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	,	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:48	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:49	EPA 200.7
Manganese	Z-01a	27.0	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:48	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:48	EPA 200.8

FINAL REPORT Report ID: 09182023163119

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B West 705

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Units

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-06

Collect Date: 09/11/23

Collect Time: 16:35

Reporting

Result

Field Residual Chlorine Result: 0.65

Field Fluoride Result: None Field pH Result: None

Analyzed

Method

Sampling Point: None QA Type: None

Analyte

Field Name: None

Matrix: Drinking Water Field PO<sub>4</sub> Result: None

Batch

Prepared

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Qualifier(s)

Solids, Suspended	Z-01	<	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:41	SM 2540 D 22nd ED
Microbiological Parame	eters							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	. ( )	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:51	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:51	EPA 200.7
Manganese	Z-01a	25.5	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:51	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:51	EPA 200.8

FINAL REPORT Report ID: 09182023163119

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#### Final Report **Analytical Results**

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma

Location ID: B West 418

Sampling Point: None

Field Name: None

QA Type: None

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-07

Collect Date: 09/11/23

Collect Time: 16:40 Matrix: Drinking Water

Reporting

Field Residual Chlorine Result: 0.88

Field Fluoride Result: None Field pH Result: None Field PO<sub>4</sub> Result: None

Results were produced by the Minnesota Department of Health, except where noted.

#### **General Chemistry Parameters**

Analyte

Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Solids, Suspended	Z-01 ´	1.2	1.0	mg/L	B3I1075	09/13/23 14:11	09/15/23 08:41	SM 2540 D 22nd ED
<b>Microbiological Parameters</b>								
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total	<b>、</b> ,	Absent	1	/100mL	B3I1013	09/11/23 19:26	09/12/23 14:08	SM 9223 B 22nd ED
Metal Parameters								
Analyte	Analyte  Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Copper	Z-01a	<	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:54	EPA 200.8
Iron	Z-01a	<	20.0	ug/L	B3I1094	09/14/23 07:17	09/14/23 14:53	EPA 200.7
Manganese	Z-01a	27.5	10.0	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:54	EPA 200.8
Lead	Z-01a	<	1.00	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:54	EPA 200.8

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Report ID: 09182023163119

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#### Final Report Quality Control

Program Code: LS

Program Name: Special Investigation

Collected By: Brian Noma Collector ID: None

estigation Facility Name/ID: 1820002

City: None

Generated: 09/18/23 16:30

Project ID: MN Correctional Facility - Stillwater

#### **Batch Summary**

Samples in Batch: B3I1013 - Microbiology Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

Samples in Batch: B3I1066 - EPA 200 Series Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

Samples in Batch: B3I1075 - General Chemistry Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

Samples in Batch: B3I1094 - Metals Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

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#### Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: None

Collector ID: None

Generated: 09/18/23 16:30

#### Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1075 - General	Chemistry Prep											
Blank (B3I1075-BLK1)					Prepared: 09/13/23 14:11 Analyzed: 09/15/23 08:36							
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Solids, Suspended		<	1.0	mg/L								
Duplicate (B3I1075-DUP1)		Source: 2310	408-01	Prepare	d: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:37				
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Solids, Suspended	Z-01	<	1.0	mg/L		1.200				5		
Duplicate (B3I1075-DUP2)		Source: 2310	408-06	Prepare	d: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:37				
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Solids, Suspended	Z-01	1.200	1.0	mg/L		<				5		
Reference (B3I1075-SRM1)				Prepare	d: 09/13/23	14:11 Anal	yzed: 09/15/2	3 08:36				
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit		
Solids, Suspended	(-7	46.00	2.5	mg/L	44.8		103	79.7-107				

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#### Final Report **Quality Control**

Program Code: LS

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

Collected By: Brian Noma

City: None

Collector ID: None Generated: 09/18/23 16:30

#### Results were produced by Minnesota Department of Health, except where noted

Batch B3I1066 - EPA 200 Se	eries Prep									
Blank (B3I1066-BLK1)				Prepare	ed: 09/13/23	3 09:15 Anal	lyzed: 09/13/2	23 18:18		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
Copper	,	<	10.0	ug/L						
Lead		<	1.00	ug/L						
Manganese		<	10.0	ug/L						
LCS (B3I1066-BS1)				Prepare	ed: 09/13/23	8 09:15 Anal	lyzed: 09/13/2	23 18:21		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper		50.9		ug/L	50		102	85-115		
Lead		49.2		ug/L	50		98	85-115		
Manganese		50.5		ug/L	50		101	85-115		
Duplicate (B3I1066-DUP1)		Source: 2310	431-01	Prepare	ed: 09/13/23	09:15 Ana	lyzed: 09/13/2	23 18:33		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper	. ( )	5.32	10.0	ug/L		<			2	20
Lead		<	1.00	ug/L		<				20
Manganese		22.6	10.0	ug/L		22.5			0.6	20
Matrix Spike (B3I1066-MS1)		Source: 2310	431-01	Prepare	ed: 09/13/23	8 09:15 Ana	lyzed: 09/13/2	23 18:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Lim
Copper	G. 3. 3. 1. (°)	53.4		ug/L	50		96	70-130		
Lead		49.3		ug/L	50		99	70-130		
Manganese		72.0		ug/L	50		99	70-130		
Batch B3I1094 - Metals Prep	<u> </u>									
Blank (B3I1094-BLK1)				Prepare	ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:06		
Analyte	Analyte Qualifier(s)	Result	Reporting	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPE Lim
Iron	Qualifier(S)	<	20.0	ug/L		RESIM				
LCS (B3I1094-BS1)				Prepare	ed: 09/13/23	3 16:18 Ana	lyzed: 09/14/2	23 14:08		
FINAL REPORT								Report ID	004555	

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#### Final Report Quality Control

Program Code: LS

Collector ID: None

Project ID: MN Correctional Facility - Stillwater

Program Name: Special Investigation

Facility Name/ID: 1820002

City: None

Collected By: Brian Noma

Generated: 09/18/23 16:30

Results were produced by Minnesota Department of Health, except where noted.

Batch B3I1094 - Metals P	rep	-	-							
LCS (B3I1094-BS1)				Prepare	ed: 09/13/23	16:18 Anal	yzed: 09/14/2	23 14:08		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	1020		ug/L	1,000		102	85-115		
Duplicate (B3I1094-DUP1)		Source: 2310	0427-01	Prepare	ed: 09/13/23	16:18 Anal	yzed: 09/14/2	23 14:12		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		6.83	20.0	ug/L		<			3	20
Duplicate (B3I1094-DUP2)		Source: 2310	0428-02	Prepare	ed: 09/13/23	16:18 Anal	yzed: 09/14/2	23 14:36		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	<	20.0	ug/L		<				20
Matrix Spike (B3I1094-MS1)		Source: 2310	0427-01	Prepare	ed: 09/13/23	16:18 Anal	yzed: 09/14/2	23 14:13		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	( )	976		ug/L	1,000		97	85-115		
Matrix Spike (B3I1094-MS2)		Source: 23I0428-02		Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:38				23 14:38		
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		940		ug/L	1,000		93	85-115		

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#### Final Report Quality Control

#### **Data Qualifiers and Definitions**

Z-01a Sample was collected in a 250 mL container.

Z-01 Filter contains <2.5 mg of residue.

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%REC Percent Recovery

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