

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 µg/L) slightly above the secondary standard (50 µg/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 [sample collection procedures](#) and protocols, samples were collected from cold water taps, as cold water is the source recommended for consumption at all public water systems.

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 [manganese in drinking water](#). 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 µg/L) slightly above the secondary standard (50 µg/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 [Consumer Confidence Report](#).

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

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 [Flushing Plans](#) 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 [Controlling Legionella in Potable Water Systems](#).

Minnesota Department of Health
Drinking Water Protection Section
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9/29/2023R

To view the revisions to the original report, see the [errata sheet \(PDF\)](#). 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 [National Primary Drinking Water Regulations](#) and [Secondary Drinking Water Standards: Guidance for Nuisance Chemicals](#) 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 ¹	81 sites throughout facility	Primary (health-based)	15 µg/L ²	Yes	Can be used to indicate corrosion of plumbing systems
Copper ¹	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 ³	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 ⁴	81 sites throughout facility	Secondary (aesthetic)	50 µg/L	No ⁵	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

¹ As samples were collected throughout the day, they were not necessarily “first draw” as would be done for Safe Drinking Water Act compliance determination.

² 1 microgram per Liter (µg/L) is equivalent to 1 part per billion.

³ 1 milligram per Liter (mg/L) is equivalent to 1 part per million.

⁴ 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.

⁵ 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 [sampling and analysis guide](#) and the [sample acceptance policy](#).



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: 2310408

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

Final Report
 Summary of Samples Received

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: 09/18/23 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	23I0408-01	Drinking Water	09/11/23 11:14	09/11/23 13:45	4.1
Seg 1309	23I0408-02	Drinking Water	09/11/23 11:31	09/11/23 13:45	4.1
Seg 1501	23I0408-03	Drinking Water	09/11/23 11:37	09/11/23 13:45	4.1
Seg 1706	23I0408-04	Drinking Water	09/11/23 11:45	09/11/23 13:45	4.1
Seg 1802	23I0408-05	Drinking Water	09/11/23 11:51	09/11/23 13:45	4.1
Seg 2212	23I0408-06	Drinking Water	09/11/23 11:59	09/11/23 13:45	4.1
Seg 2411	23I0408-07	Drinking Water	09/11/23 12:05	09/11/23 13:45	4.1
Seg 2606	23I0408-08	Drinking Water	09/11/23 12:12	09/11/23 13:45	4.1
Seg 156 Jan Closet	23I0408-09	Drinking Water	09/11/23 12:16	09/11/23 13:45	4.1

Authorized by:

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

Line #	Building / Floor / Cell Location ID	Stilwater Persion	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
							TSS 1L HDPE unpreserved	BAKTI 150mL Sterial, Na2S2O3	Metals 250ml HDPE, HNO3 Ion/Map
1	Seg 1101	9/11/23	11:14 am	0.25 mg/L CL	DW	1	1	1	11
2	Seg 1309	↓	11:31 am	0.20 mg/L CL	DW	1	1	1	12
3	Seg 1501		11:37 am	0.79 mg/L CL	DW	1	1	1	13
4	Seg 1706		11:45 am	0.80 mg/L CL	DW	1	1	1	14
5	Seg 1802		11:51 am	0.13 mg/L CL	DW	1	1	1	15
6	Seg 2212		11:59 am	0.47 mg/L CL	DW	1	1	1	16
7	Seg 2411		12:05 pm	0.99 mg/L CL	DW	1	1	1	17
8	Seg 2606		12:12 pm	1.48 mg/L CL	DW	1	1	1	18
9	Seg 156 ^{2nd} closet		12:16 pm		DW	1	1	1	19
10					DW				
11				DW					
12				DW					
13				DW					
14				DW					
15				DW					
16				DW					
17				DW					
18				DW					
19				DW					
20				DW					



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Gregory Lason / MATH	9/11/23	12:21	J. F. / MATH	09-11-2023	13:15
Sammy / MATH	9/11/23	1:46 pm			

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

Data Entry Worksheet



Parcel Information Date & time of receipt: **SEP 11 '23 13:45**

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: 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 None

Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 4.1 °C IR thermometer used: A19

Evidence of freezing: Yes No

Initials of person receiving parcel: B

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 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 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	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 16:55

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

Authorized by:

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0408-01

Location ID: Seg 1101	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.25
Field Name: None	Collect Time: 11:14	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

Microbiological Parameters

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

Authorized by:



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
Collected By: Brenda	City: None
Collector ID: None	Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-02

Location ID: Seg 1309	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.20
Field Name: None	Collect Time: 11:31	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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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 Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0408-03

Location ID: Seg 1501	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.79
Field Name: None	Collect Time: 11:37	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:



Stefan Saravia, Environmental Laboratory Manager
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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	City: None
Collector ID: None	Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-04

Location ID: Seg 1706	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.80
Field Name: None	Collect Time: 11:45	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

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

MDH Sample Number: 23I0408-05

Location ID: Seg 1802	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.13
Field Name: None	Collect Time: 11:51	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:



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
Collected By: Brenda	City: None
Collector ID: None	Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-06

Location ID: Seg 2212	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.47
Field Name: None	Collect Time: 11:59	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:37	SM 2540 D 22nd ED

Microbiological Parameters

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

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

MDH Sample Number: 23I0408-07

Location ID: Seg 2411	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.99
Field Name: None	Collect Time: 12:05	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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	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

Authorized by:



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
Collected By: Brenda	City: None
Collector ID: None	Generated: 09/18/23 16:55

MDH Sample Number: 23I0408-08

Location ID: Seg 2606	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.48
Field Name: None	Collect Time: 12:12	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0408-09

Location ID: Seg 156 Jan Closet	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:16	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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

Final Report
 Analytical Results

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


MDH Sample Number: 23I0408-09RE1

Location ID: Seg 156 Jan Closet	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:16	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<p><i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i></p>
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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

Batch Summary

Samples in Batch: B311006 - Microbiology Prep

2310408-01 2310408-02 2310408-03 2310408-04 2310408-05 2310408-06 2310408-07
2310408-08

Samples in Batch: B311033 - EPA 200 Series Prep

2310408-01 2310408-02 2310408-03 2310408-04 2310408-05 2310408-06 2310408-07
2310408-08

Samples in Batch: B311065 - EPA 200 Series Prep

2310408-09 2310408-09RE1

Samples in Batch: B311075 - General Chemistry Prep

2310408-01 2310408-06

Samples in Batch: B311091 - Metals Prep

2310408-01 2310408-02 2310408-03 2310408-04 2310408-05 2310408-06 2310408-07
2310408-08

Samples in Batch: B311098 - Metals Prep

2310408-09

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

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 B311075 - General Chemistry Prep

Blank (B311075-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 (B311075-DUP1)

Source: 2310408-01

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-DUP2)

Source: 2310408-06

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-SRM1)

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		46.00	2.5	mg/L	44.8		103	79.7-107		

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

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 B311033 - EPA 200 Series Prep

Blank (B311033-BLK1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-BS1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-DUP1)

Source: 2310408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:05

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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			0.8	20

Duplicate (B311033-DUP2)

Source: 2310410-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-MS1)

Source: 2310408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:08

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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 (B311033-MS2)

Source: 2310410-03

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

FINAL REPORT

Report ID: 09182023165615

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

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 B311033 - EPA 200 Series Prep

Matrix Spike (B311033-MS2)

Source: 2310410-03

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		

Batch B311065 - EPA 200 Series Prep

Blank (B311065-BLK1)

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-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	ug/L						

LCS (B311065-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 (B311065-BS2)

Prepared: 09/13/23 08:48 Analyzed: 09/15/23 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 (B311065-DUP1)

Source: 2310409-03

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

FINAL REPORT

Report ID: 09182023165615

Authorized by:

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

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 B311065 - EPA 200 Series Prep

Duplicate (B311065-DUP1) Source: 2310409-03 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP2) Source: 2310427-06 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3) Source: 2310409-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1) Source: 2310409-03 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 (B311065-MS2) Source: 2310427-06 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 (B311065-MS3) Source: 2310409-03RE1 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		

FINAL REPORT

Report ID: 09182023165615

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

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 B3I1065 - EPA 200 Series Prep

Batch B3I1091 - Metals Prep

Blank (B3I1091-BLK1)

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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)

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0408-01

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0409-03

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0408-01

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0409-03

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 09:45

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		946		ug/L	1,000		94	85-115		

Batch B3I1098 - Metals Prep

Blank (B3I1098-BLK1)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 14:58

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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FINAL REPORT

Report ID: 09182023165615

Authorized by:

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

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 Prep

Blank (B3I1098-BLK1)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 23I0408-09

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 23I0408-09

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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

Authorized by:

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 Public Health Laboratory, Minnesota Department of Health

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

Authorized by:

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



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: 2310409

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

Final 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: 09/18/23 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	23I0409-01	Drinking Water	09/11/23 11:10	09/11/23 13:45	13.9
Well #2	23I0409-02	Drinking Water	09/11/23 11:20	09/11/23 13:45	13.9
Treatment Plant	23I0409-03	Drinking Water	09/11/23 11:25	09/11/23 13:45	13.9
Outside Warehouse	23I0409-04	Drinking Water	09/11/23 11:50	09/11/23 13:45	13.9
MSU Kitchen	23I0409-05	Drinking Water	09/11/23 12:15	09/11/23 13:45	13.9
MSU upper level	23I0409-06	Drinking Water	09/11/23 12:30	09/11/23 13:45	13.9
MSU lower level	23I0409-07	Drinking Water	09/11/23 12:40	09/11/23 13:45	13.9

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Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150ml Steril, Na2S2O3	250ml HDPE, HNO3
1	Well #3	9/11/23	11:10 am	Lucas Martin	DW	1	1	1
2	Well #2		11:20 am		DW	1	1	1
3	Treatment Plant		11:25 am		DW	2	1	1
4	Outside Warehouse		11:50 am		DW		1	1
5	MSU Kitchen		12:15 pm		DW		1	1
6	MSU Upper level		12:30 pm		DW	2	1	1
7	MSU lower level		12:40 pm		DW	2 2	1	1
8					DW			
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation: _____ Date: 9/11/23 Time: 1:07pm

Accepted by/Affiliation: _____ Date: 09-11-2023 Time: 1:45

_____ 9/11/23 1:07pm

_____ 9/11/23 1:45pm

dirty water for ~ 30 sec
 after removing screen

Free Cl	2.6	TP
MSU Upper IV	0.38	outside warehouse
MSU Lower IV	0.40	0.41
MSU Kitchen	0.44	0.64
	0.64	0.66
	0.62	2.8
	0.59	<u>Total Cl</u>

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 13:45

Courier: [X] Walk-in [] FedEx [] Spee-Dee [] UPS [] USPS [] Other courier
Tracking #
Client drop-off: [] Refrigerator (1) (186) (207) () [] Freezer (185) () [] Unrefrigerated
Parcel: [X] Plastic cooler [] Styrofoam/cardboard cooler [] Cardboard box [] Envelope [] Plastic can
Custody seals present: [X] No [] Yes, If "Yes" Custody seals intact: [] Yes [] No
Custody seal #
Evidentiary samples identified: [X] No [] Yes

Packaging & Temperature Information

Packing material: [] Bubble wrap [] Styrofoam [] Paper [X] None [] Other
Cooling material: [X] Wet ice (loose) [] Wet ice pack # () [] Gel pack # () [] Dry ice [] None
Condition of cooling material: [] Solid [X] Partially frozen [] Liquid; Liquid temperature: °C [] N/A
Representative sample temperature: 13.9 °C IR thermometer used: A19
Evidence of freezing: [] Yes [X] No

Initials of person receiving parcel: [Signature]

Chain of Custody, Sample Container, & Analysis Information

Chain of Custody received: [X] Yes [] No
Chain of Custody type: [] Standard [] Civil [] Criminal [] Biological [X] Priority/Emergency [] Unknown
All containers unique to Chain of Custody: [X] Yes [] No
All containers collected prior to expiration date: [X] Yes [] No [] Unknown
All containers received intact: [X] Yes [] No
All containers received per COC submission: [X] Yes [] No
All containers are appropriate for requested analysis: [] Yes [] No [X] Unknown
All analysis received within specified holding time: [X] Yes [] No [] Unknown
Rad Chem. request received: [] Yes [X] No, if "Yes" sample survey results: [] < 0.5 mrem/hr [] ≥ 0.5 mrem/hr
Rad Chem. meter calibration date verified: [] Yes [X] No

Sample submission details are entered in the Environmental Laboratory LIMS.

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

Final 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: 09/18/2023 16:53

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

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Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0409-01

Location ID: Well #3	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 11:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-02

Location ID: Well #2	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 11:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:38	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-03

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 11:25	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

Microbiological Parameters

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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53


MDH Sample Number: 23I0409-03RE1

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 11:25	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:15	EPA 200.8

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 2310409-04

Location ID: Outside Warehouse	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 11:50	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-05

Location ID: MSU Kitchen	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:15	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 2310409-06

Location ID: MSU upper level	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:30	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 23I0409-06RE1

Location ID: MSU upper level	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:30	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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: Lucas Martin	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:53

MDH Sample Number: 2310409-07

Location ID: MSU lower level	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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 Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0409-07RE1

Location ID: MSU lower level	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	ug/L	B3I1065	09/15/23 08:33	09/15/23 14:27	EPA 200.8

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 Public Health Laboratory, Minnesota Department of Health

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

Batch Summary

Samples in Batch: B311006 - Microbiology Prep

2310409-01 2310409-02 2310409-03 2310409-04 2310409-05 2310409-06 2310409-07

Samples in Batch: B311033 - EPA 200 Series Prep

2310409-01 2310409-02 2310409-04 2310409-05

Samples in Batch: B311065 - EPA 200 Series Prep

2310409-03 2310409-03RE1 2310409-06 2310409-06RE1 2310409-07 2310409-07RE1

Samples in Batch: B311075 - General Chemistry Prep

2310409-01 2310409-02 2310409-03 2310409-06 2310409-07

Samples in Batch: B311091 - Metals Prep

2310409-01 2310409-02 2310409-03 2310409-04 2310409-05 2310409-06 2310409-07

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Public Health Laboratory, Minnesota Department of Health

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 B311075 - General Chemistry Prep

Blank (B311075-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 (B311075-DUP1)

Source: 2310408-01

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-DUP2)

Source: 2310408-06

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-SRM1)

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		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: 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 B311033 - EPA 200 Series Prep

Blank (B311033-BLK1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-BS1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-DUP1)

Source: 23I0408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:05

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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			0.8	20

Duplicate (B311033-DUP2)

Source: 23I0410-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-MS1)

Source: 23I0408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:08

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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 (B311033-MS2)

Source: 23I0410-03

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

FINAL REPORT

Report ID: 09182023165355

Authorized by:



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.

Batch B311033 - EPA 200 Series Prep

Matrix Spike (B311033-MS2)

Source: 2310410-03

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		

Batch B311065 - EPA 200 Series Prep

Blank (B311065-BLK1)

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-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	ug/L						

LCS (B311065-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 (B311065-BS2)

Prepared: 09/13/23 08:48 Analyzed: 09/15/23 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 (B311065-DUP1)

Source: 2310409-03

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

FINAL REPORT

Report ID: 09182023165355

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

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 B311065 - EPA 200 Series Prep

Duplicate (B311065-DUP1) Source: 2310409-03 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP2) Source: 2310427-06 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3) Source: 2310409-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1) Source: 2310409-03 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 (B311065-MS2) Source: 2310427-06 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 (B311065-MS3) Source: 2310409-03RE1 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		

FINAL REPORT

Report ID: 09182023165355

Authorized by:

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

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

Batch B3I1091 - Metals Prep

Blank (B3I1091-BLK1)

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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)

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0408-01

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0409-03

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0408-01

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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: 23I0409-03

Prepared: 09/13/23 16:15 Analyzed: 09/14/23 09:45

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		946		ug/L	1,000		94	85-115		

FINAL REPORT

Report ID: 09182023165355

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

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

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



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: 2310410

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,

A handwritten signature in black ink that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

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: Stillwater
Collector ID: None	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	23I0410-01	Drinking Water	09/11/23 11:10	09/11/23 13:45	0.1
A East 560	23I0410-02	Drinking Water	09/11/23 11:20	09/11/23 13:45	0.1
A East 239	23I0410-03	Drinking Water	09/11/23 11:50	09/11/23 13:45	0.1
A East 635	23I0410-04	Drinking Water	09/11/23 11:55	09/11/23 13:45	0.1
A East 348	23I0410-05	Drinking Water	09/11/23 12:05	09/11/23 13:45	0.1
A East 744	23I0410-06	Drinking Water	09/11/23 12:10	09/11/23 13:45	0.1
A East 848	23I0410-07	Drinking Water	09/11/23 12:20	09/11/23 13:45	0.1
A East 449	23I0410-08	Drinking Water	09/11/23 12:30	09/11/23 13:45	0.1
A East 154	23I0410-09	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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Stefan Saravia, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

2 sets per tier Labels. building & floor & cell #

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						TSS 1L HDPE unpreserved	Pack 150ml Sterial, Na2S2O3	Metals 250ml HDPE, HNO3
1	A East 136	9/11/23	11:10	Brian Norma	DW	1	1	1
2	A East 560	9/11/23	11:20	Brian Norma	DW	1	1	1
3	A East 239	9/11/23	11:50	Brian Norma	DW	1	1	1
4	A East 635	9/11/23	11:55	Brian Norma	DW	1	1	1
5	A East 348	9/11/23	12:05	Brian Norma	DW	1	1	1
6	A East 744	9/11/23	12:10	Brian Norma	DW	1	1	1
7	A East 848	9/11/23	12:20	Brian Norma	DW	1	1	1
8	A East 449	9/11/23	12:30	Brian Norma	DW	1	1	1
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20	A East 154	9/11/23	12:40	Brian Norma	DW			Pb/cv



Relinquished by/Affiliation Date Time Accepted by/Affiliation Date Time

Brian Norma 9/11/23 12:50pm
 Brian Norma 9/11/23 12:50pm
 Brian Norma 7/11/23 1:45pm
 MOTT 09-11-2023 / 1345

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 13:45

Courier: [X] Walk-in [] FedEx [] Spee-Dee [] UPS [] USPS [] Other courier
Tracking #
Client drop-off: [] Refrigerator (1) (186) (207) () [] Freezer (185) () [] Unrefrigerated
Parcel: [X] Plastic cooler [] Styrofoam/cardboard cooler [] Cardboard box [] Envelope [] Plastic can
Custody seals present: [X] No [] Yes, If "Yes" Custody seals intact: [] Yes [] No
Custody seal # Evidentiary samples identified: [X] No [] Yes

Packaging & Temperature Information

Packing material: [] Bubble wrap [] Styrofoam [] Paper [X] None [] Other
Cooling material: [X] Wet ice (loose) [] Wet ice pack #() [] Gel pack #() [] Dry ice [] None
Condition of cooling material: [] Solid [X] Partially frozen [] Liquid; Liquid temperature: °C [] N/A
Representative sample temperature: 0-1 °C IR thermometer used: B19
Evidence of freezing: [] Yes [X] No

Initials of person receiving parcel: B

Chain of Custody, Sample Container, & Analysis Information

Chain of Custody received: [X] Yes [] No
Chain of Custody type: [X] Standard [] Civil [] Criminal [] Biological [X] Priority/Emergency [] Unknown
All containers unique to Chain of Custody: [X] Yes [] No
All containers collected prior to expiration date: [X] Yes [] No [] Unknown
All containers received intact: [X] Yes [] No
All containers received per COC submission: [X] Yes [] No
All containers are appropriate for requested analysis: [X] Yes [] No [] Unknown
All analysis received within specified holding time: [X] Yes [] No [] Unknown
Rad Chem. request received: [] Yes [X] No, If "Yes" sample survey results: [] < 0.5 mrem/hr [] ≥ 0.5 mrem/hr
Rad Chem. meter calibration date verified: [] Yes [X] No

Sample submission details are entered in the Environmental Laboratory LIMS.

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

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

Data Entry Worksheet



Parcel Information Date & time of receipt: **SEP 11 '23 13:45**

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: 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 None
 Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 7.4 °C IR thermometer used: B-19

Evidence of freezing: Yes No

Initials of person receiving parcel: B

Chain of Custody, Sample Container, & Analysis Information

Chain of Custody received: Yes No

Chain of Custody type: MDA-11-23 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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS.
Initials of person logging in the work order request into LIMS: [Signature]

Final Report
Case Narrative

Program Code: LS	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected by: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/2023 16:51

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

Authorized by:

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0410-01

Location ID: A East 136	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.77
Field Name: None	Collect Time: 11:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0410-02

Location ID: A East 560	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.79
Field Name: None	Collect Time: 11:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0410-03

Location ID: A East 239	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.69
Field Name: None	Collect Time: 11:50	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0410-04

Location ID: A East 635	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.08
Field Name: None	Collect Time: 11:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-05

Location ID: A East 348	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.63
Field Name: None	Collect Time: 12:05	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:30	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-06

Location ID: A East 744	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.61
Field Name: None	Collect Time: 12:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:31	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-07

Location ID: A East 848	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.58
Field Name: None	Collect Time: 12:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:31	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:51

MDH Sample Number: 23I0410-08

Location ID: A East 449	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.63
Field Name: None	Collect Time: 12:30	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	2.0	1.0	mg/L	B3I1074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED

Microbiological Parameters

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

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 Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0410-09

Location ID: A East 154	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:51


MDH Sample Number: 23I0410-09RE1

Location ID: A East 154	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 12:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Batch Summary

Samples in Batch: B311006 - Microbiology Prep

23I0410-01 23I0410-02 23I0410-03 23I0410-04 23I0410-05 23I0410-06 23I0410-07
23I0410-08

Samples in Batch: B311033 - EPA 200 Series Prep

23I0410-01 23I0410-02 23I0410-03 23I0410-04 23I0410-05

Samples in Batch: B311034 - EPA 200 Series Prep

23I0410-06 23I0410-07 23I0410-08

Samples in Batch: B311065 - EPA 200 Series Prep

23I0410-09 23I0410-09RE1

Samples in Batch: B311074 - General Chemistry Prep

23I0410-05 23I0410-06 23I0410-07 23I0410-08

Samples in Batch: B311075 - General Chemistry Prep

23I0410-01 23I0410-02 23I0410-03 23I0410-04

Samples in Batch: B311091 - Metals Prep

23I0410-01 23I0410-02 23I0410-03 23I0410-04 23I0410-05

Samples in Batch: B311092 - Metals Prep

23I0410-06 23I0410-07 23I0410-08

Samples in Batch: B311098 - Metals Prep

23I0410-09

FINAL REPORT

Report ID: 09182023165138

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Public Health Laboratory, Minnesota Department of Health

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.

Batch B311074 - General Chemistry Prep

Blank (B311074-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 (B311074-DUP1)

Source: 23I0410-05

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	Z-01	<	1.0	mg/L		<				5

Duplicate (B311074-DUP2)

Source: 23I0410-06

Prepared: 09/13/23 14:09 Analyzed: 09/15/23 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 (B311074-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		66.00	2.5	mg/L	64.4		102	79.7-107		

Batch B311075 - General Chemistry Prep

Blank (B311075-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 (B311075-DUP1)

Source: 23I0408-01

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-DUP2)

Source: 23I0408-06

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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

FINAL REPORT

Report ID: 09182023165138

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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.

Batch B311075 - General Chemistry Prep

Reference (B311075-SRM1)

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		46.00	2.5	mg/L	44.8		103	79.7-107		

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Stefan Saravia, Environmental Laboratory Manager
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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.

Batch B311033 - EPA 200 Series Prep

Blank (B311033-BLK1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-BS1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-DUP1)

Source: 23I0408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:05

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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			0.8	20

Duplicate (B311033-DUP2)

Source: 23I0410-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-MS1)

Source: 23I0408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:08

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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 (B311033-MS2)

Source: 23I0410-03

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

FINAL REPORT

Report ID: 09182023165138

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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.

Batch B311033 - EPA 200 Series Prep

Matrix Spike (B311033-MS2) Source: 2310410-03 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		

Batch B311034 - EPA 200 Series Prep

Blank (B311034-BLK1) Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-BS1) Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP1) Source: 2310410-08 Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP2) Source: 2310419-02 Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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
Manganese		26.9	10.0	ug/L		27.0			0.5	20

FINAL REPORT

Report ID: 09182023165138

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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.

Batch B311034 - EPA 200 Series Prep

Matrix Spike (B311034-MS1) Source: 2310410-08 Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-MS2) Source: 2310419-02 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 B311065 - EPA 200 Series Prep

Blank (B311065-BLK1) Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-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	ug/L						

LCS (B311065-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 (B311065-BS2) Prepared: 09/13/23 08:48 Analyzed: 09/15/23 14:09

FINAL REPORT

Report ID: 09182023165138

Authorized by:

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

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.

Batch B311065 - EPA 200 Series Prep

LCS (B311065-BS2)

Prepared: 09/13/23 08:48 Analyzed: 09/15/23 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 (B311065-DUP1)

Source: 2310409-03

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP2)

Source: 2310427-06

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3)

Source: 2310409-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1)

Source: 2310409-03

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 (B311065-MS2)

Source: 2310427-06

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		

FINAL REPORT

Report ID: 09182023165138

Authorized by:

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

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.

Batch B311065 - EPA 200 Series Prep

Matrix Spike (B311065-MS3) Source: 23I0409-03RE1 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 B311091 - Metals Prep

Blank (B311091-BLK1) Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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 (B311091-BS1) Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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 (B311091-DUP1) Source: 23I0408-01 Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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 (B311091-DUP2) Source: 23I0409-03 Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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 (B311091-MS1) Source: 23I0408-01 Prepared: 09/13/23 16:15 Analyzed: 09/14/23 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 (B311091-MS2) Source: 23I0409-03 Prepared: 09/13/23 16:15 Analyzed: 09/14/23 09:45

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		946		ug/L	1,000		94	85-115		

FINAL REPORT

Report ID: 09182023165138

Authorized by:

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

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.

Batch B3I1091 - Metals Prep

Batch B3I1092 - Metals Prep

Blank (B3I1092-BLK1)

Prepared: 09/13/23 16:16 Analyzed: 09/14/23 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)

Prepared: 09/13/23 16:16 Analyzed: 09/14/23 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: 23I0410-06

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: 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: 23I0418-03

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 B3I1098 - Metals Prep

Blank (B3I1098-BLK1)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 14:58

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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FINAL REPORT

Report ID: 09182023165138

Authorized by:

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

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.

Batch B3I1098 - Metals Prep

Blank (B3I1098-BLK1)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 23I0408-09

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 23I0408-09

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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		

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

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

Authorized by:

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



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: 2310411

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

Final Report
 Summary of Samples Received

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: 09/18/23 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	23I0411-01	Drinking Water	09/11/23 12:33	09/11/23 13:45	4.8
Atl 301	23I0411-02	Drinking Water	09/11/23 12:40	09/11/23 13:45	4.8
Atl 407	23I0411-03	Drinking Water	09/11/23 12:45	09/11/23 13:45	4.8
Atl 104	23I0411-04	Drinking Water	09/11/23 12:52	09/11/23 13:45	4.8
Atl 209	23I0411-05	Drinking Water	09/11/23 12:57	09/11/23 13:45	4.8

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

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150mL Steril, Na2S2O3	250ml HDPE, HNO3
1	AH1-Office Sink	9/11/23	12:33 pm	Brenda for all	DW	1	1	1
2	AH1 301		12:40 pm		DW	1	1	1
3	AHL 407		12:45 pm	0.25 mg/L	DW	1	1	1
4	AHL 104		12:52 pm	0.37 mg/L	DW	1	1	1
5	ATL 209		12:57 pm	0.07 mg/L	DW	1	1	1
6			1:00		DW			
7					DW			
8					DW			
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation _____ Date _____ Time _____ Accepted by/Affiliation _____ Date _____ Time _____

Severy Lawson
Severy

9/11/23 1:07 pm
9/11/23 1:48 pm

[Signature]
WRH

09-11-2023 / 1545

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



2310411

Parcel Information Date & time of receipt: SEP 11 '23 13:45

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: 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 None
 Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 4.8 °C IR thermometer used: A19

Evidence of freezing: Yes No

Initials of person receiving parcel: T

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 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 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	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 16:48

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

Authorized by:

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0411-01

Location ID: Atl - Office Sink	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.00
Field Name: None	Collect Time: 12:33	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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	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
Lead	Z-01a	<	1.00	ug/L	B3I1034	09/12/23 11:03	09/13/23 14:39	EPA 200.8

Authorized by:



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
Collected By: Brenda	City: None
Collector ID: None	Generated: 09/18/23 16:49

MDH Sample Number: 23I0411-02

Location ID: Atl 301	Collect Date: 09/11/23	Field Residual Chlorine Result: 2.20
Field Name: None	Collect Time: 12:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0411-03

Location ID: Atl 407	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.25
Field Name: None	Collect Time: 12:45	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i>
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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	City: None
Collector ID: None	Generated: 09/18/23 16:49

MDH Sample Number: 23I0411-04

Location ID: Atl 104	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.37
Field Name: None	Collect Time: 12:52	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0411-05

Location ID: Atl 209	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.07
Field Name: None	Collect Time: 12:57	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:



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	City: None
Collector ID: None	Generated: 09/18/23 16:49

Batch Summary

Samples in Batch: B311006 - Microbiology Prep

23I0411-01 23I0411-02 23I0411-03 23I0411-04 23I0411-05

Samples in Batch: B311034 - EPA 200 Series Prep

23I0411-01 23I0411-02 23I0411-03 23I0411-04 23I0411-05

Samples in Batch: B311074 - General Chemistry Prep

23I0411-02

Samples in Batch: B311092 - Metals Prep

23I0411-01 23I0411-02 23I0411-03 23I0411-04 23I0411-05

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

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 B311074 - General Chemistry Prep

Blank (B311074-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 (B311074-DUP1)

Source: 2310410-05

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	Z-01	<	1.0	mg/L		<				5

Duplicate (B311074-DUP2)

Source: 2310410-06

Prepared: 09/13/23 14:09 Analyzed: 09/15/23 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 (B311074-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		66.00	2.5	mg/L	64.4		102	79.7-107		

Authorized by:



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	City: None
Collector ID: None	Generated: 09/18/23 16:49

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

Batch B311034 - EPA 200 Series Prep

Blank (B311034-BLK1)

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-BS1)

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP1)

Source: 23I0410-08

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP2)

Source: 23I0419-02

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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
Manganese		26.9	10.0	ug/L		27.0			0.5	20

Matrix Spike (B311034-MS1)

Source: 23I0410-08

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-MS2)

Source: 23I0419-02

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

FINAL REPORT

Report ID: 09182023164921

Authorized by:

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

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 B311034 - EPA 200 Series Prep

Matrix Spike (B311034-MS2)		Source: 2310419-02		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 B311092 - Metals Prep

Blank (B311092-BLK1)		Source: 2310419-02		Prepared: 09/13/23 16:16		Analyzed: 09/14/23 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 (B311092-BS1)		Source: 2310419-02		Prepared: 09/13/23 16:16		Analyzed: 09/14/23 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 (B311092-DUP1)		Source: 2310410-06		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 (B311092-DUP2)		Source: 2310418-03		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 (B311092-MS1)		Source: 2310410-06		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 (B311092-MS2)		Source: 2310418-03		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

FINAL REPORT

Report ID: 09182023164921

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

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 B311092 - Metals Prep

Matrix Spike (B311092-MS2)

Source: 2310418-03

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		

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

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

Authorized by:

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



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: 2310418

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

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: Stillwater
Collector ID: None	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	23I0418-01	Drinking Water	09/11/23 13:43	09/11/23 16:00	5.3
B East 137	23I0418-02	Drinking Water	09/11/23 13:53	09/11/23 16:00	5.3
B East 236	23I0418-03	Drinking Water	09/11/23 14:00	09/11/23 16:00	5.3
B East 660	23I0418-04	Drinking Water	09/11/23 14:08	09/11/23 16:00	5.3
B East 341	23I0418-05	Drinking Water	09/11/23 14:20	09/11/23 16:00	5.3
B East 758	23I0418-06	Drinking Water	09/11/23 14:30	09/11/23 16:00	5.3
B East 442	23I0418-07	Drinking Water	09/11/23 14:43	09/11/23 16:00	5.3
B East 853	23I0418-08	Drinking Water	09/11/23 14:50	09/11/23 16:00	5.3
B East 134	23I0418-09	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 Saravia, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected			Total CA
						TSS 1L HDPE unpreserved	Bacti 150mL Sterial, Na2S2O3	Metals 250ml HDPE, HNO3 Mn, Fe	
1	B East 559	9/11/23	13:43	Brian Noma	DW	1	1	1	0.62
2	B East 137	9/11/23	13:53	Brian Noma	DW	1	1	1	0.59
3	B East 236	9/11/23	14:00	Brian Noma	DW	1	1	1	0.57
4	B East 660	9/11/23	14:08	Brian Noma	DW	1	1	1	0.62
5	B East 341	9/11/23	14:20	Brian Noma	DW	1	1	1	0.61
6	B East 758	9/11/23	14:30	Brian Noma	DW	1	1	1	0.59
7	B East 442	9/11/23	14:43	Brian Noma	DW	1	1	1	0.84
8	B East 853	9/11/23	14:50	Brian Noma	DW	1	1	1	0.72
9	B East 134	9/11/23	14:55	Brian Noma	DW	Pb, Cu			—
10					DW				
11					DW				
12					DW				
13					DW				
14					DW				
15					DW				
16					DW				
17					DW				
18					DW				
19					DW				
20					DW				



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
<i>[Signature]</i>	9/11/23	3:00pm	<i>[Signature]</i>	9/11/23	1600
<i>[Signature]</i>	9/11/23	3:01pm	<i>[Signature]</i>	9/11/23	1600
<i>[Signature]</i>	9/11/23	4:03pm			

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 16:00

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 1 of 2, 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 _____

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: 5.3 °C IR thermometer used: A19

Evidence of freezing: Yes No

Initials of person receiving parcel: OB

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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS.
Initials of person logging in the work order request into LIMS: OB

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 16:00

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 2 OF 2, 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 _____

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: 3.9 °C IR thermometer used: A19

Evidence of freezing: Yes No

Initials of person receiving parcel: OB

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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS.
Initials of person logging in the work order request into LIMS: OB

Final Report
Case Narrative

Program Code: LS	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected by: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/2023 16:46

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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0418-01

Location ID: B East 559	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.62
Field Name: None	Collect Time: 13:43	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311074	09/13/23 14:09	09/15/23 08:32	SM 2540 D 22nd ED

Microbiological Parameters

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B311009	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	B311034	09/12/23 11:03	09/13/23 14:54	EPA 200.8
Iron	Z-01b	<	20.0	ug/L	B311092	09/14/23 07:09	09/14/23 12:01	EPA 200.7
Manganese	Z-01b	27.3	10.0	ug/L	B311034	09/12/23 11:03	09/13/23 14:54	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B311034	09/12/23 11:03	09/13/23 14:54	EPA 200.8

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0418-02

Location ID: B East 137	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.59
Field Name: None	Collect Time: 13:53	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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 Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0418-03

Location ID: B East 236	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.57
Field Name: None	Collect Time: 14:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-04

Location ID: B East 660	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.62
Field Name: None	Collect Time: 14:08	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:33	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-05

Location ID: B East 341	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.61
Field Name: None	Collect Time: 14:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:33	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-06

Location ID: B East 758	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.59
Field Name: None	Collect Time: 14:30	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:33	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-07

Location ID: B East 442	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.84
Field Name: None	Collect Time: 14:43	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:33	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-08

Location ID: B East 853	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.72
Field Name: None	Collect Time: 14:50	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-09

Location ID: B East 134	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 14:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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: Brian Noma	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:46

MDH Sample Number: 23I0418-09RE1

Location ID: B East 134	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 14:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	86.1	10.0	ug/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	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

Batch Summary

Samples in Batch: B311009 - Microbiology Prep

23I0418-01 23I0418-02 23I0418-03 23I0418-04 23I0418-05 23I0418-06 23I0418-07
23I0418-08

Samples in Batch: B311034 - EPA 200 Series Prep

23I0418-01 23I0418-02 23I0418-03 23I0418-04 23I0418-05 23I0418-06 23I0418-07
23I0418-08

Samples in Batch: B311065 - EPA 200 Series Prep

23I0418-09 23I0418-09RE1

Samples in Batch: B311074 - General Chemistry Prep

23I0418-01 23I0418-02 23I0418-03 23I0418-04 23I0418-05 23I0418-06 23I0418-07
23I0418-08

Samples in Batch: B311092 - Metals Prep

23I0418-01 23I0418-02 23I0418-03 23I0418-04 23I0418-05 23I0418-06 23I0418-07
23I0418-08

Samples in Batch: B311098 - Metals Prep

23I0418-09

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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 16:46

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

Batch B311074 - General Chemistry Prep

Blank (B311074-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 (B311074-DUP1)

Source: 23I0410-05

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	Z-01	<	1.0	mg/L		<				5

Duplicate (B311074-DUP2)

Source: 23I0410-06

Prepared: 09/13/23 14:09 Analyzed: 09/15/23 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 (B311074-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		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
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.

Batch B311034 - EPA 200 Series Prep

Blank (B311034-BLK1)

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-BS1)

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP1)

Source: 23I0410-08

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP2)

Source: 23I0419-02

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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
Manganese		26.9	10.0	ug/L		27.0			0.5	20

Matrix Spike (B311034-MS1)

Source: 23I0410-08

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-MS2)

Source: 23I0419-02

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

FINAL REPORT

Report ID: 09182023164709

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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.

Batch B311034 - EPA 200 Series Prep

Matrix Spike (B311034-MS2)

Source: 2310419-02

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 B311065 - EPA 200 Series Prep

Blank (B311065-BLK1)

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-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	ug/L						

LCS (B311065-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 (B311065-BS2)

Prepared: 09/13/23 08:48 Analyzed: 09/15/23 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 (B311065-DUP1)

Source: 2310409-03

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
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.

Batch B311065 - EPA 200 Series Prep

Duplicate (B311065-DUP1) Source: 2310409-03 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP2) Source: 2310427-06 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3) Source: 2310409-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1) Source: 2310409-03 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 (B311065-MS2) Source: 2310427-06 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 (B311065-MS3) Source: 2310409-03RE1 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		

FINAL REPORT

Report ID: 09182023164709

Authorized by:

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

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.

Batch B311065 - EPA 200 Series Prep

Batch B311092 - Metals Prep

Blank (B311092-BLK1)

Prepared: 09/13/23 16:16 Analyzed: 09/14/23 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 (B311092-BS1)

Prepared: 09/13/23 16:16 Analyzed: 09/14/23 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 (B311092-DUP1)

Source: 2310410-06

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 (B311092-DUP2)

Source: 2310418-03

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 (B311092-MS1)

Source: 2310410-06

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 (B311092-MS2)

Source: 2310418-03

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 B311098 - Metals Prep

Blank (B311098-BLK1)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 14:58

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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FINAL REPORT

Report ID: 09182023164709

Authorized by:

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

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.

Batch B3I1098 - Metals Prep

Blank (B3I1098-BLK1)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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)

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 23I0408-09

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 23I0408-09

Prepared: 09/13/23 16:55 Analyzed: 09/14/23 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: 09182023164709

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 Public Health Laboratory, Minnesota Department of Health

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

Authorized by:

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



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: 2310419

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

Final Report
 Summary of Samples Received

Program Code: LS	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected By: Brenda / Corey	City: Stillwater
Collector ID: None	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	23I0419-01	Drinking Water	09/11/23 14:00	09/11/23 16:00	3.3
CHD E101 SS	23I0419-02	Drinking Water	09/11/23 14:10	09/11/23 16:00	3.3
CHD E213	23I0419-03	Drinking Water	09/11/23 14:17	09/11/23 16:00	3.3
CHD W 236	23I0419-04	Drinking Water	09/11/23 14:23	09/11/23 16:00	3.3
CHD W321	23I0419-05	Drinking Water	09/11/23 14:29	09/11/23 16:00	3.3
CHD E 317 not stainless	23I0419-06	Drinking Water	09/11/23 14:36	09/11/23 16:00	3.3
CHD E 416	23I0419-07	Drinking Water	09/11/23 14:41	09/11/23 16:00	3.3
CHD W 427	23I0419-08	Drinking Water	09/11/23 14:49	09/11/23 16:00	3.3
CHD W538	23I0419-09	Drinking Water	09/11/23 14:56	09/11/23 16:00	3.3
CHD E 510	23I0419-10	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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Stefan Saravia, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

1 PCB

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150ml Steril, Na2S2O3	250ml HDPE, HNO3
1	CHD W124 55	9/11/23	2:00 pm	Brenda	DW	5	16	10
2	CHD E 101 55		2:10 pm		DW			
3	CHD E 213		2:17 pm		DW	HS5		
4	CHD W 236		2:23 pm		DW			
5	CHD W321		2:29 pm		DW	HS5		
6	CHD E 317 ^{not stainless}		2:36 pm		DW			
7	CHD E 416		2:41 pm		DW	HS5		
8	CHD W 427		2:49 pm		DW	HS5		
9	CHD W 538		2:56 pm	Carey	DW			
10	CHD E 510		3:03 pm		DW	HS5		
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation: Carey Larson / MDH Date: 9/11/23 Time: 3:09 pm

Accepted by/Affiliation: [Signature] / MDH Date: 09-11-23 Time: 10:00

[Signature] / MDH Date: 9/11/23 Time: 4:03 pm

-02
-03
-04
-05
-06
-07
-08
-09
-10

Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 16:00

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: 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 None
 Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 3.3 °C IR thermometer used: B-19

Evidence of freezing: Yes No

Initials of person receiving parcel: MM

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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS.

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

Final Report
Case Narrative

Program Code: LS	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected by: Brenda / Corey	City: Stillwater
Collector ID: None	Generated: 09/18/2023 16:44

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

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

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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-01

Location ID: CHD W124 SS	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.19
Field Name: None	Collect Time: 14:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

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

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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-02

Location ID: CHD E101 SS	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.28
Field Name: None	Collect Time: 14:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

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

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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-03

Location ID: CHD E213	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.26
Field Name: None	Collect Time: 14:17	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 Parameters

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

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.
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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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-04

Location ID: CHD W 236	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.53
Field Name: None	Collect Time: 14:23	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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	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

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

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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-05

Location ID: CHD W321	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.18
Field Name: None	Collect Time: 14:29	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:35	SM 2540 D 22nd ED

Microbiological Parameters

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

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

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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-06

Location ID: CHD E 317 not stainless	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.16
Field Name: None	Collect Time: 14:36	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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	13.9	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

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i>
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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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-07

Location ID: CHD E 416	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.18
Field Name: None	Collect Time: 14:41	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:



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
Collected By: Brenda / Corey	City: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-08

Location ID: CHD W 427	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.22
Field Name: None	Collect Time: 14:49	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:35	SM 2540 D 22nd ED

Microbiological Parameters

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

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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: Stillwater
Collector ID: None	Generated: 09/18/23 16:44

MDH Sample Number: 23I0419-09

Location ID: CHD W538	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.25
Field Name: None	Collect Time: 14:56	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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	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

MDH Sample Number: 23I0419-10

Location ID: CHD E 510	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.80
Field Name: None	Collect Time: 15:03	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:35	SM 2540 D 22nd ED

Microbiological Parameters

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	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

Batch Summary

Samples in Batch: B311009 - Microbiology Prep

23I0419-01 23I0419-02 23I0419-03 23I0419-04 23I0419-05 23I0419-06 23I0419-07
23I0419-08 23I0419-09 23I0419-10

Samples in Batch: B311034 - EPA 200 Series Prep

23I0419-01 23I0419-02 23I0419-03 23I0419-04

Samples in Batch: B311035 - EPA 200 Series Prep

23I0419-05 23I0419-06 23I0419-08 23I0419-09 23I0419-10

Samples in Batch: B311065 - EPA 200 Series Prep

23I0419-07

Samples in Batch: B311074 - General Chemistry Prep

23I0419-01 23I0419-03 23I0419-05 23I0419-08 23I0419-10

Samples in Batch: B311092 - Metals Prep

23I0419-01 23I0419-02 23I0419-03 23I0419-04

Samples in Batch: B311093 - Metals Prep

23I0419-05 23I0419-06 23I0419-07 23I0419-08 23I0419-09 23I0419-10

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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 B311074 - General Chemistry Prep

Blank (B311074-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 (B311074-DUP1)

Source: 2310410-05

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	Z-01	<	1.0	mg/L		<				5

Duplicate (B311074-DUP2)

Source: 2310410-06

Prepared: 09/13/23 14:09 Analyzed: 09/15/23 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 (B311074-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		66.00	2.5	mg/L	64.4		102	79.7-107		

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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: 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 B311034 - EPA 200 Series Prep

Blank (B311034-BLK1)

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-BS1)

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP1)

Source: 23I0410-08

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-DUP2)

Source: 23I0419-02

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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
Manganese		26.9	10.0	ug/L		27.0			0.5	20

Matrix Spike (B311034-MS1)

Source: 23I0410-08

Prepared: 09/12/23 11:03 Analyzed: 09/13/23 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 (B311034-MS2)

Source: 23I0419-02

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

FINAL REPORT

Report ID: 09182023164451

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 Public Health Laboratory, Minnesota Department of Health

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 B3I1034 - EPA 200 Series Prep

Matrix Spike (B3I1034-MS2)		Source: 23I0419-02		Prepared: 09/12/23 11:03		Analyzed: 09/13/23 15:32		RPD	RPD
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	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 B3I1035 - EPA 200 Series Prep

Blank (B3I1035-BLK1)		Source: 23I0419-02		Prepared: 09/12/23 11:05		Analyzed: 09/13/23 15:47		RPD	RPD
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	Limit
Copper		<	10.0	ug/L					
Lead		<	1.00	ug/L					
Manganese		<	10.0	ug/L					

LCS (B3I1035-BS1)		Source: 23I0419-02		Prepared: 09/12/23 11:05		Analyzed: 09/13/23 15:50		RPD	RPD
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	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		RPD	RPD
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	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: 23I0426-03		Prepared: 09/12/23 11:05		Analyzed: 09/13/23 16:40		RPD	RPD
Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	Limit
Lead		<	1.00	ug/L		<			20
Manganese		2.26	10.0	ug/L		<			2 20

Duplicate (B3I1035-DUP3)		Source: 23I0426-03RE1		Prepared: 09/15/23 08:33		Analyzed: 09/15/23 13:37		RPD	RPD
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FINAL REPORT

Report ID: 09182023164451

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 Public Health Laboratory, Minnesota Department of Health

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 B311035 - EPA 200 Series Prep

Duplicate (B311035-DUP3) Source: 2310426-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 13:37

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		179	10.0	ug/L		178			0.6	20

Matrix Spike (B311035-MS1) Source: 2310419-06 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 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 (B311035-MS2) Source: 2310426-03 Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-MS3) Source: 2310426-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 B311065 - EPA 200 Series Prep

Blank (B311065-BLK1) Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-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	ug/L						

FINAL REPORT

Report ID: 09182023164451

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 Public Health Laboratory, Minnesota Department of Health

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 B311065 - EPA 200 Series Prep

LCS (B311065-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 (B311065-BS2)

Prepared: 09/13/23 08:48 Analyzed: 09/15/23 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 (B311065-DUP1)

Source: 2310409-03

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP2)

Source: 2310427-06

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3)

Source: 2310409-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1)

Source: 2310409-03

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		

FINAL REPORT

Report ID: 09182023164451

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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 B311065 - EPA 200 Series Prep

Matrix Spike (B311065-MS2) Source: 2310427-06 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 (B311065-MS3) Source: 2310409-03RE1 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 B311092 - Metals Prep

Blank (B311092-BLK1) Prepared: 09/13/23 16:16 Analyzed: 09/14/23 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 (B311092-BS1) Prepared: 09/13/23 16:16 Analyzed: 09/14/23 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 (B311092-DUP1) Source: 2310410-06 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 (B311092-DUP2) Source: 2310418-03 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 (B311092-MS1) Source: 2310410-06 Prepared: 09/13/23 16:16 Analyzed: 09/14/23 11:46

FINAL REPORT

Report ID: 09182023164451

Authorized by:

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

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 B311092 - Metals Prep

Matrix Spike (B311092-MS1) Source: 2310410-06 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 (B311092-MS2) Source: 2310418-03 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 B311093 - Metals Prep

Blank (B311093-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						

LCS (B311093-BS1) Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP1) Source: 2310419-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP2) Source: 2310420-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-MS1) Source: 2310419-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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		

FINAL REPORT

Report ID: 09182023164451

Authorized by:

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

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 B311093 - Metals Prep

Matrix Spike (B311093-MS2)

Source: 23I0420-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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		

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

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

Authorized by:

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



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,

A handwritten signature in blue ink that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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	23I0420-01	Drinking Water	09/11/23 13:55	09/11/23 16:30	19.9
Admin - master control	23I0420-02	Drinking Water	09/11/23 14:07	09/11/23 16:30	19.9
Admin - Lobby	23I0420-03	Drinking Water	09/11/23 14:13	09/11/23 16:30	19.9
Admin - 2nd floor	23I0420-04	Drinking Water	09/11/23 14:24	09/11/23 16:30	19.9
Admin - 3rd Floor	23I0420-05	Drinking Water	09/11/23 14:38	09/11/23 16:30	19.9
Well #3	23I0420-06	Drinking Water	09/11/23 15:00	09/11/23 16:30	19.9
Well #2	23I0420-07	Drinking Water	09/11/23 15:20	09/11/23 16:30	19.9
Treatment Plant	23I0420-08	Drinking Water	09/11/23 15:40	09/11/23 16:30	19.9
Trip Blank	23I0420-10	Drinking Water	09/11/23 13:55	09/11/23 16:30	19.9

Loc ID	MDH Sample Number	Receiving Comments
Well #2	23I0420-07	Lab error for BNA 525.2 analysis, cancelled. CAD

FINAL REPORT

Report ID: 09282023143535

Authorized by:  Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<p><i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i></p>
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Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150ml Sterial, Na2S2O3	250ml HDPE, HNO3
1	Admin - Worker's Office	9/11/23	1:55 pm	Lucas Martin	DW	2	1	1
2	Admin - Master Control	9/11/23	2:07 pm		DW			
3	Admin - Lobby	9/11/23	2:13 pm		DW		1	1
4	Admin - 2nd Floor	9/11/23	2:24 pm		DW		1	1
5	Admin - 3rd floor	9/11/23	2:38 pm		DW	2	1	1
6	Well #3	9/11/23	3:00 pm		DW	Soc/VOC / 1,4-Dioxane		
7	Well #2	9/11/23	3:29 pm		DW	Soc/VOC / 1,4-Dioxane		
8	Treatment Plant	9/11/23	3:40 pm		DW	Soc/VOC / 1,4-Dioxane		
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
<i>Steve T...</i>	9/11/23	4:33 pm	<i>...</i>	9/11/23	10:30

01
02
03
04
05
06
07
08

3rd floor
 2nd floor
 Lobby
 Control room
 Wardens office
 LOC

Free CI
 0.74
 0.58
 0.55
 0.47
 0.76

Total CI
 1.02
 0.84
 0.83
 0.75
 1.04

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



SEP 11 '23 16:30

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 cooler 2 of 2, 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 _____

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: 8.0 °C IR thermometer used: A19

Evidence of freezing: Yes No

Initials of person receiving parcel: OB

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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS.
Initials of person logging in the work order request into LIMS: OB

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 1 of 2, 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 _____

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: A19

Evidence of freezing: Yes No

Initials of person receiving parcel: OB

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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS.
Initials of person logging in the work order request into LIMS: OB

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.

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-01

Location ID: Admin - Warden's Office	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.02
Field Name: None	Collect Time: 13:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: 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	B311074	09/13/23 14:09	09/15/23 08:36	SM 2540 D 22nd ED

Microbiological Parameters

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B311012	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	B311065	09/15/23 08:33	09/15/23 14:36	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B311093	09/14/23 07:13	09/14/23 13:24	EPA 200.7
Manganese	Z-01d	13.3	10.0	ug/L	B311065	09/15/23 08:33	09/15/23 14:36	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B311065	09/15/23 08:33	09/15/23 14:36	EPA 200.8

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-02

Location ID: Admin - master control	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.84
Field Name: None	Collect Time: 14:07	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311033	09/12/23 10:59	09/13/23 14:04	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B311093	09/14/23 07:13	09/14/23 13:26	EPA 200.7
Manganese	Z-01d	23.4	10.0	ug/L	B311033	09/12/23 10:59	09/13/23 14:04	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B311033	09/12/23 10:59	09/13/23 14:04	EPA 200.8

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

Amended Report
 Analytical Results

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

MDH Sample Number: 23I0420-03

Location ID: Admin - Lobby	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.83
Field Name: None	Collect Time: 14:13	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-04

Location ID: Admin - 2nd floor	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.75
Field Name: None	Collect Time: 14:24	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311012	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	B311033	09/12/23 10:59	09/13/23 14:10	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B311093	09/14/23 07:13	09/14/23 13:30	EPA 200.7
Manganese	Z-01d	20.8	10.0	ug/L	B311033	09/12/23 10:59	09/13/23 14:10	EPA 200.8
Lead	Z-01d	<	1.00	ug/L	B311033	09/12/23 10:59	09/13/23 14:10	EPA 200.8

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i>
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Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-05

Location ID: Admin - 3rd Floor	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.04
Field Name: None	Collect Time: 14:38	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311074	09/13/23 14:09	09/15/23 08:36	SM 2540 D 22nd ED

Microbiological Parameters

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B311012	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	B311065	09/13/23 08:48	09/13/23 17:54	EPA 200.8
Iron	Z-01d	<	20.0	ug/L	B311093	09/14/23 07:13	09/14/23 13:35	EPA 200.7
Manganese	Z-01d	13.6	10.0	ug/L	B311065	09/13/23 08:48	09/13/23 17:54	EPA 200.8
Lead	Z-01c	<	1.00	ug/L	B311065	09/13/23 08:48	09/13/23 17:54	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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-06

Location ID: Well #3	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ Result: None

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

Herbicides by GC/ECD

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: Bromopropionic Acid		113	70-130	%	B311014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
2,4,5-TP (Silvex)		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
2,4-D		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Dalapon		<	5.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Dinoseb		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Pentachlorophenol (PCP)	V1	<	0.080	ug/L	B311014	09/12/23 07:44	09/12/23 21:05	EPA 515.4
Picloram		<	1.0	ug/L	B311014	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	%	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Surrogate: 4-Bromofluorobenzene		96	70-130	%	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		117	70-130	%	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2,3-Trichlorobenzene		<	1.0	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2,3-Trichloropropane		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2,4-Trichlorobenzene		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2,4-Trimethylbenzene		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dibromo-3-chloropropane (DBCP)		<	2.0	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3

FINAL REPORT

Report ID: 09282023143535

Authorized by:

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-06

Location ID: Well #3	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dichlorobenzene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dichloroethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,2-Dichloropropane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,3,5-Trimethylbenzene		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,3-Dichlorobenzene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,3-Dichloropropane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
1,4-Dichlorobenzene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
2,2-Dichloropropane		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
2-Chlorotoluene		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
4-Chlorotoluene		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Acetone	V1	<	20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Allyl chloride		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Benzene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromobenzene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromochloromethane		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromodichloromethane		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromoform		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Bromomethane	V1	<	1.0	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Carbon tetrachloride		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chlorobenzene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chlorodibromomethane		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chloroethane		<	0.50	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chloroform		0.14	0.10	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
Chloromethane		<	1.0	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
cis-1,2-Dichloroethene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3
cis-1,3-Dichloropropene		<	0.20	ug/L	B311020	09/12/23 13:28	09/12/23 13:28	EPA 524.3

FINAL REPORT

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-06

Location ID: Well #3	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-06

Location ID: Well #3	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311020	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	B311032	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	B311138	09/15/23 08:13	09/15/23 13:41	EPA 505
Toxaphene	M1, T4	<	0.86	ug/L	B311138	09/15/23 08:13	09/15/23 13:41	EPA 505
Surrogate: 1,3-Dimethyl-2-nitrobenzene	T4, Z-01b	100	70-130	%	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Surrogate: Perylene-d12	Z-01b, T4	100	70-130	%	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Surrogate: Triphenyl Phosphate	Z-01b, T4	108	70-130	%	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Alachlor	Z-01b, T4	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Aldrin	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Atrazine	Z-01b, T4	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Benzo[a]pyrene	T4, Z-01b	<	0.020	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Butachlor	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Di(2-ethylhexyl) adipate	T4, Z-01b	<	0.60	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Di(2-ethylhexyl) phthalate	T4, Z-01b	<	0.60	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Dieldrin	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Endrin	T4, Z-01b	<	0.010	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
g-BHC (Lindane)	Z-01b, T4	<	0.020	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Heptachlor	T4, Z-01b	<	0.040	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Heptachlor epoxide	T4, Z-01b	<	0.020	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Hexachlorobenzene	Z-01b, T4	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2
Hexachlorocyclopentadiene	Z-01b, T4	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:32	EPA 525.2

FINAL REPORT

Report ID: 09282023143535

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-06

Location ID: Well #3	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:00	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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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Stefan Saravia, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-07

Location ID: Well #2	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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.

Herbicides by GC/ECD

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: Bromopropionic Acid		111	70-130	%	B311014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
2,4,5-TP (Silvex)		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
2,4-D		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Dalapon		<	5.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Dinoseb		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Pentachlorophenol (PCP)	V1	<	0.080	ug/L	B311014	09/12/23 07:44	09/12/23 21:38	EPA 515.4
Picloram		<	1.0	ug/L	B311014	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	%	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Surrogate: 4-Bromofluorobenzene		96	70-130	%	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		119	70-130	%	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,3-Trichlorobenzene		<	1.0	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,3-Trichloropropane		<	0.50	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,4-Trichlorobenzene		<	0.50	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2,4-Trimethylbenzene		<	0.50	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3
1,2-Dibromo-3-chloropropane (DBCP)		<	2.0	ug/L	B311020	09/12/23 13:55	09/12/23 13:55	EPA 524.3

FINAL REPORT

Report ID: 09282023143535

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-07

Location ID: Well #2	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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: 09282023143535

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-07

Location ID: Well #2	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

FINAL REPORT

Report ID: 09282023143535

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-07

Location ID: Well #2	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:20	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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		<	0.20	ug/L	B311020	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	B311032	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	B311138	09/15/23 08:13	09/15/23 14:01	EPA 505
Toxaphene	T4	<	0.82	ug/L	B311138	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	%	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
3-Hydroxycarbofuran		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Aldicarb		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Aldicarb sulfone		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Aldicarb sulfoxide		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Carbaryl		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Carbofuran		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Methomyl		<	0.50	ug/L	B311011	09/12/23 14:04	09/12/23 14:04	EPA 531.2
Oxamyl		<	0.50	ug/L	B311011	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	B311010	09/12/23 10:12	09/12/23 10:12	EPA 547

FINAL REPORT

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-08

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ Result: None

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

Herbicides by GC/ECD

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: Bromopropionic Acid		112	70-130	%	B311014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
2,4,5-TP (Silvex)		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
2,4-D		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Dalapon		<	5.0	ug/L	B311014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Dinoseb		<	1.0	ug/L	B311014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Pentachlorophenol (PCP)	V1	<	0.080	ug/L	B311014	09/12/23 07:44	09/12/23 22:11	EPA 515.4
Picloram		<	1.0	ug/L	B311014	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	B311018	09/12/23 09:07	09/12/23 16:06	EPA 504.1
1,2-Dibromoethane (EDB)		<	0.01	ug/L	B311018	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	%	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Surrogate: 4-Bromofluorobenzene		94	70-130	%	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Surrogate: Methyl tertiary butyl ether-d3		124	70-130	%	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,1,2-Tetrachloroethane		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,1-Trichloroethane		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,2,2-Tetrachloroethane		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,2-Trichloroethane		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1,2-Trichlorotrifluoroethane		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1-Dichloroethane		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1-Dichloroethene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
1,1-Dichloropropene		<	0.20	ug/L	B311020	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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-08

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

Report ID: 09282023143535

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-08

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chloroethane		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chloroform		0.30	0.10	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Chloromethane		<	1.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
cis-1,2-Dichloroethene		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
cis-1,3-Dichloropropene		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Dibromomethane		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Dichlorodifluoromethane		<	1.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Dichlorofluoromethane		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Ethyl ether		<	2.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Ethylbenzene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Hexachlorobutadiene		<	1.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Isopropylbenzene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methyl ethyl ketone (MEK)		<	10	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methyl isobutyl ketone (MIBK)		<	5.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methyl tertiary butyl ether (MTBE)		<	2.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Methylene chloride		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Naphthalene		<	1.0	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
n-Butylbenzene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
n-Propylbenzene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
o-Xylene		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
p and m-Xylene		<	0.30	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
p-Isopropyltoluene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
sec-Butylbenzene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Styrene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
tert-Butylbenzene		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Tetrachloroethene		<	0.20	ug/L	B311020	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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-08

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
Tetrahydrofuran (THF)		<	10	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Toluene		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
trans-1,2-Dichloroethene		<	0.10	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
trans-1,3-Dichloropropene		<	0.20	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Trichloroethene (TCE)		<	0.10	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Trichlorofluoromethane		<	0.50	ug/L	B311020	09/12/23 14:22	09/12/23 14:22	EPA 524.3
Vinyl chloride		<	0.20	ug/L	B311020	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	B311032	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	B311138	09/15/23 08:13	09/15/23 14:20	EPA 505
Toxaphene	T4	<	0.83	ug/L	B311138	09/15/23 08:13	09/15/23 14:20	EPA 505
Surrogate: 1,3-Dimethyl-2-nitrobenzene	T4, Z-01b	99	70-130	%	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Surrogate: Perylene-d12	T4, Z-01b	99	70-130	%	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Surrogate: Triphenyl Phosphate	T4, Z-01b	109	70-130	%	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Alachlor	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Aldrin	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Atrazine	T4, Z-01b	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Benzo[a]pyrene	T4, Z-01b	<	0.020	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Butachlor	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Di(2-ethylhexyl) adipate	T4, Z-01b	<	0.60	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Di(2-ethylhexyl) phthalate	T4, Z-01b	<	0.60	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Dieldrin	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-08

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
g-BHC (Lindane)	T4, Z-01b	<	0.020	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Heptachlor	T4, Z-01b	<	0.040	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Heptachlor epoxide	T4, Z-01b	<	0.020	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Hexachlorobenzene	T4, Z-01b	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Hexachlorocyclopentadiene	T4, Z-01b	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Methoxychlor	T4, Z-01b	<	0.10	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Metolachlor	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Metribuzin	T4, Z-01b	<	0.50	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Propachlor	T4, Z-01b	<	0.20	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2
Simazine	T4, Z-01b	<	0.070	ug/L	B311106	09/14/23 08:03	09/14/23 14:59	EPA 525.2

Carbamates, SDWA

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Surrogate: BDMC	F7, T5	95	70-130	%	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
3-Hydroxycarbofuran	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Aldicarb	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Aldicarb sulfone	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Aldicarb sulfoxide	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Carbaryl	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Carbofuran	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Methomyl	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2
Oxamyl	F7, T5	<	0.50	ug/L	B311011	09/12/23 17:24	09/12/23 17:24	EPA 531.2

Glyphosate, SDWA

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Glyphosate		<	5.0	ug/L	B311010	09/12/23 10:21	09/12/23 10:21	EPA 547

FINAL REPORT

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

Amended Report
 Analytical Results

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

MDH Sample Number: 23I0420-08RE1

Location ID: Treatment Plant	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 15:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
<i>Surrogate: 2-Bromobutanoic Acid</i>		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

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

Amended Report
 Analytical Results

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

MDH Sample Number: 23I0420-10

Location ID: Trip Blank	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 13:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: Trip Blank		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

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

Amended Report
 Analytical Results

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

MDH Sample Number: 23I0420-10

Location ID: Trip Blank	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 13:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: Trip Blank		Field PO ₄ 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

FINAL REPORT

Report ID: 09282023143535

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

Amended Report
 Analytical Results

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

MDH Sample Number: 2310420-10

Location ID: Trip Blank	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 13:55	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: Trip Blank		Field PO ₄ 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
Methylene chloride		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Naphthalene		<	1.0	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
n-Butylbenzene		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
n-Propylbenzene		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
o-Xylene		<	0.20	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
p and m-Xylene		<	0.30	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
p-Isopropyltoluene		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
sec-Butylbenzene		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Styrene		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
tert-Butylbenzene		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Tetrachloroethene		<	0.20	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Tetrahydrofuran (THF)		<	10	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Toluene		<	0.20	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
trans-1,2-Dichloroethene		<	0.10	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
trans-1,3-Dichloropropene		<	0.20	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Trichloroethene (TCE)		<	0.10	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Trichlorofluoromethane		<	0.50	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3
Vinyl chloride		<	0.20	ug/L	B311020	09/12/23 18:51	09/12/23 18:51	EPA 524.3

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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

Batch Summary

Samples in Batch: B311010 - Glyphosate Preparation

2310420-06 2310420-07 2310420-08

Samples in Batch: B311011 - Carbamate Preparation

2310420-06 2310420-07 2310420-08

Samples in Batch: B311012 - Microbiology Prep

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

Samples in Batch: B311014 - Herbicide Extraction

2310420-06 2310420-07 2310420-08

Samples in Batch: B311018 - EDB & DBCP Preparation

2310420-08

Samples in Batch: B311020 - EPA 524 Prep

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

Samples in Batch: B311032 - 1,4 Dioxane in Water SPE

2310420-06 2310420-07 2310420-08

Samples in Batch: B311033 - EPA 200 Series Prep

2310420-02 2310420-03 2310420-04

Samples in Batch: B311065 - EPA 200 Series Prep

2310420-01 2310420-05

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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

Batch Summary

Samples in Batch: B311074 - General Chemistry Prep

2310420-01 2310420-05

Samples in Batch: B311093 - Metals Prep

2310420-01 2310420-02 2310420-03 2310420-04 2310420-05

Samples in Batch: B311106 - BNA SDWA Extraction

2310420-06 2310420-08

Samples in Batch: B311138 - BNA 505 Prep

2310420-06 2310420-07 2310420-08

Samples in Batch: B311304 - HAA Extraction

2310420-08RE1

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Public Health Laboratory, Minnesota Department of Health

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.

Batch B311074 - General Chemistry Prep

Blank (B311074-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 (B311074-DUP1)

Source: 2310410-05

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	Z-01	<	1.0	mg/L		<				5

Duplicate (B311074-DUP2)

Source: 2310410-06

Prepared: 09/13/23 14:09 Analyzed: 09/15/23 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 (B311074-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		66.00	2.5	mg/L	64.4		102	79.7-107		

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B311033 - EPA 200 Series Prep

Blank (B311033-BLK1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-BS1)

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-DUP1)

Source: 2310408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:05

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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			0.8	20

Duplicate (B311033-DUP2)

Source: 2310410-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 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 (B311033-MS1)

Source: 2310408-03

Prepared: 09/12/23 10:59 Analyzed: 09/13/23 13:08

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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 (B311033-MS2)

Source: 2310410-03

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		

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

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.

Batch B3I1033 - EPA 200 Series Prep

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
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)				Prepared: 09/13/23 08:48		Analyzed: 09/13/23 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 (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	ug/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)				Prepared: 09/13/23 08:48		Analyzed: 09/15/23 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: 23I0409-03		Prepared: 09/13/23 08:48		Analyzed: 09/13/23 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

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

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.

Batch B311065 - EPA 200 Series Prep

Duplicate (B311065-DUP2) Source: 2310427-06 Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3) Source: 2310409-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1) Source: 2310409-03 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 (B311065-MS2) Source: 2310427-06 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 (B311065-MS3) Source: 2310409-03RE1 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 B311093 - Metals Prep

Blank (B311093-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						

FINAL REPORT

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

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.

Batch B311093 - Metals Prep

LCS (B311093-BS1)

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP1)

Source: 2310419-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP2)

Source: 2310420-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-MS1)

Source: 2310419-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-MS2)

Source: 2310420-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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		

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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.

Batch B311304 - HAA Extraction

Blank (B311304-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 (B311304-BS1)

Prepared: 09/22/23 09:34 Analyzed: 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 (B311304-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 (B311304-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

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B3I1304 - HAA Extraction

Matrix Spike Dup (B3I1304-MSD1)

Source: 23I0491-02RE1

Prepared: 09/22/23 09:34 Analyzed: 09/26/23 12:52

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<i>Surrogate: 2-Bromobutanoic Acid</i>		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

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

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.

Batch B3I1014 - Herbicide 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

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		

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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.

Batch B311014 - Herbicide Extraction

Matrix Spike (B311014-MS1)		Source: 2310264-01		Prepared: 09/12/23 07:44 Analyzed: 09/12/23 18:52						
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 (B311014-MSD1)		Source: 2310264-01		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
<i>Surrogate: Bromopropionic Acid</i>		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

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B311018 - EDB & DBCP Preparation

Blank (B311018-BLK1)

Prepared: 09/12/23 09:07 Analyzed: 09/12/23 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 (B311018-BS1)

Prepared: 09/12/23 09:07 Analyzed: 09/12/23 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 (B311018-MS1)

Source: 2310420-08

Prepared: 09/12/23 09:07 Analyzed: 09/12/23 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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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B3I1020 - EPA 524 Prep

Blank (B3I1020-BLK1)

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

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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.

Batch B311020 - EPA 524 Prep

Blank (B311020-BLK1)

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

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B3I1020 - EPA 524 Prep

Blank (B3I1020-BLK1)

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

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichlorofluoromethane		<	0.50	ug/L						
Vinyl chloride		<	0.20	ug/L						

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
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

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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.

Batch B311020 - EPA 524 Prep

LCS (B311020-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
Allyl chloride		4.2	0.50	ug/L	4		104	70-130		
Benzene		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		
cis-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		
Isopropylbenzene		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		
p 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		

FINAL REPORT

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Amended Report
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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.

Batch B311020 - EPA 524 Prep

LCS (B311020-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 (B311020-DUP1)

Source: 2310430-01

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: 09282023143535

Authorized by:

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

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.

Batch B311020 - EPA 524 Prep

Duplicate (B311020-DUP1)

Source: 2310430-01

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
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

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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.

Batch B31020 - EPA 524 Prep

Duplicate (B31020-DUP1)

Source: 2310430-01

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 (B31020-MS1)

Source: 2310304-01

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

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B311020 - EPA 524 Prep

Matrix Spike (B311020-MS1)

Source: 2310304-01

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

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)		6.5	0.50	ug/L	6	<	108	70-130		
1,2-Dichlorobenzene		5.7	0.20	ug/L	6	<	95	70-130		
1,2-Dichloroethane		6.9	0.20	ug/L	6	<	116	70-130		
1,2-Dichloropropane		7.0	0.20	ug/L	6	<	118	70-130		
1,3,5-Trimethylbenzene		5.6	0.50	ug/L	6	<	93	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-Dichlorobenzene		6.0	0.20	ug/L	6	<	100	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	<	96	70-130		
4-Chlorotoluene		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		
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	<	114	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		
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		
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		
Methyl ethyl ketone (MEK)		35	10	ug/L	30	<	116	70-130		

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B311020 - EPA 524 Prep

Matrix Spike (B311020-MS1)

Source: 2310304-01

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

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B3I1032 - 1,4 Dioxane in Water SPE

Blank (B3I1032-BLK1)

Prepared: 09/12/23 10:53 Analyzed: 09/12/23 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)

Prepared: 09/12/23 10:53 Analyzed: 09/12/23 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: 23I0420-06

Prepared: 09/12/23 10:53 Analyzed: 09/12/23 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: 23I0420-07

Prepared: 09/12/23 10:53 Analyzed: 09/12/23 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

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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.

Batch B3I1106 - BNA SDWA Extraction

Blank (B3I1106-BLK1)

Prepared: 09/14/23 08:03 Analyzed: 09/14/23 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)

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
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		

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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.

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)

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

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						
Toxaphene	T4	<	0.80	ug/L						

LCS (B3I1138-BS1)

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

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				70-130		
Toxaphene	T4	2.2	0.80	ug/L	2.5		89	70-130		

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

Authorized by:

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

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.

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	T4	0.89	0.80	ug/L	1		89	60-140		

Matrix Spike (B3I1138-MS1)

Source: 23I0420-06

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

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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B311011 - Carbamate Preparation

Blank (B311011-BLK1)

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 (B311011-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 (B311011-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

Authorized by:

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

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.

Batch B311011 - Carbamate Preparation

Matrix Spike (B311011-MS1)

Source: 2310217-03

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 (B311011-MSD1)

Source: 2310217-03

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

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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 Public Health Laboratory, Minnesota Department of Health

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.

Batch B3I1010 - Glyphosate Preparation

Blank (B3I1010-BLK1)

Prepared: 09/12/23 09:54 Analyzed: 09/12/23 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)

Prepared: 09/12/23 10:56 Analyzed: 09/12/23 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: 23I0264-02

Prepared: 09/12/23 10:39 Analyzed: 09/12/23 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		

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 Public Health Laboratory, Minnesota Department of Health

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
%REC	Percent Recovery

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



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: 2310425

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/dhs/eh/environmental>

Final Report
 Summary of Samples Received

Program Code: LS	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected By: Kim Larsen	City: None
Collector ID: None	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

Authorized by:



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

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Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150ml Sterial, Na2S2O3	250ml HDPE, HNO3
1	Education L1	9/11/23	17:31	Kim Larsen	DW		1	1
2	Education L2	9/11/23	17:39	Kim Larsen	DW		1	1
3	Education LB	9/11/23	17:53	Kim Larsen	DW		1	1
4	Education BH	9/11/23	17:47	Kim Larsen	DW		1	1
5	Education S&H Bath	9/11/23			DW			
6					DW			
7					DW			
8					DW			
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Kim Larsen	9/11/23	6:04	Kim Larsen / MOH	09/11/23	18:44
Kim Larsen	9/11/23	18:47			

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:** 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 None

Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 13.2 °C **IR thermometer used:** B-19

Evidence of freezing: Yes No

Initials of person receiving parcel: AS

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 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 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	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected by: Kim Larsen	City: None
Collector ID: None	Generated: 09/18/2023 16:39

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

Authorized by:

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0425-01

Location ID: Education L1	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:31	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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

Authorized by:



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
Collected By: Kim Larsen	City: None
Collector ID: None	Generated: 09/18/23 16:39

MDH Sample Number: 23I0425-02

Location ID: Education L2	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:39	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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

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 Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0425-03

Location ID: Education LB	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:53	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0425-04

Location ID: Education BH	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:47	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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

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

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

Batch Summary

Samples in Batch: B311013 - Microbiology Prep

2310425-01 2310425-02 2310425-03 2310425-04

Samples in Batch: B311035 - EPA 200 Series Prep

2310425-01 2310425-02 2310425-03 2310425-04

Samples in Batch: B311093 - Metals Prep

2310425-01 2310425-02 2310425-03 2310425-04

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Public Health Laboratory, Minnesota Department of Health

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.

Batch B311035 - EPA 200 Series Prep

Blank (B311035-BLK1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 15:47

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 (B311035-BS1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP1)

Source: 2310419-06

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 (B311035-DUP2)

Source: 2310426-03

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP3)

Source: 2310426-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 13:37

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		179	10.0	ug/L		178			0.6	20

Matrix Spike (B311035-MS1)

Source: 2310419-06

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 Limit
Copper		62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		

FINAL REPORT

Report ID: 09182023163949

Authorized by:

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

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.

Batch B311035 - EPA 200 Series Prep

Matrix Spike (B311035-MS1) Source: 2310419-06 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 Limit
Manganese		77.3		ug/L	50		100	70-130		

Matrix Spike (B311035-MS2) Source: 2310426-03 Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-MS3) Source: 2310426-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 B311093 - Metals Prep

Blank (B311093-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						

LCS (B311093-BS1) Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP1) Source: 2310419-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP2) Source: 2310420-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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

FINAL REPORT

Report ID: 09182023163949

Authorized by:

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

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.

Batch B311093 - Metals Prep

Matrix Spike (B311093-MS1)

Source: 23I0419-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-MS2)

Source: 23I0420-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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		

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 Public Health Laboratory, Minnesota Department of Health

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

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



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: 2310426

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

Final Report
 Summary of Samples Received

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: 09/18/23 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	23I0426-01	Drinking Water	09/11/23 17:27	09/11/23 18:47	13.2
Industry Carpentry	23I0426-02	Drinking Water	09/11/23 17:33	09/11/23 18:47	13.2
Industry Shop S	23I0426-03	Drinking Water	09/11/23 17:37	09/11/23 18:47	13.2
Industry Shop A	23I0426-04	Drinking Water	09/11/23 17:45	09/11/23 18:47	13.2
Industry Building Maintenance	23I0426-05	Drinking Water	09/11/23 17:56	09/11/23 18:47	13.2

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

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150mL Steril, Na2S2O3	250ml HDPE, HNO3
1	Industry Staff Beal Room	9/11/23	5:27 pm	Brenda A	DW	1	1	1
2	Industry Carpentry	9/11/23	5:33 pm	Brenda	DW	1	1	1
3	Industry Shop AS	9/11/23	5:37 pm	Brenda A	DW	1	1	1
4	Industry Shop A	9/11/23	5:45 pm	Brenda	DW	1	1	1
5	Industry Builders Maintenance	9/11/23	5:56 pm	Brenda	DW	1	1	1
6					DW			
7					DW			
8					DW			
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Steve Leason/MOH	9/11/23	6:04	Wendy Berman	09/11/23	18:49
Joe Walker	9/11/23	18:48			

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: [X] Walk-in [] FedEx [] Spee-Dee [] UPS [] USPS [] Other courier
Tracking #
Client drop-off: [] Refrigerator (1) (186) (207) () [] Freezer (185) () [] Unrefrigerated
Parcel: [X] Plastic cooler [] Styrofoam/cardboard cooler [] Cardboard box [] Envelope [] Plastic can
[X] None [] Other
Custody seals present: [X] 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 [X] None [] Other
Cooling material: [X] Wet ice (loose) [] Wet ice pack #() [] Gel pack #() [] Dry ice [] None
[] Refrigerator (1) (186) (207) () [] Freezer (185) () [] Other
Condition of cooling material: [X] Solid [] Partially frozen [] Liquid; Liquid temperature: °C [] N/A
Representative sample temperature: 13.2 °C IR thermometer used: B-19
Evidence of freezing: [] Yes [X] No

Initials of person receiving parcel: [Signature]

Chain of Custody, Sample Container, & Analysis Information

Chain of Custody received: [X] Yes [] No
Chain of Custody type: [] Standard [] Civil [] Criminal [] Biological [X] Priority/Emergency [] Unknown
All containers unique to Chain of Custody: [X] Yes [] No
All containers collected prior to expiration date: [X] Yes [] No [] Unknown
All containers received intact: [X] Yes [] No
All containers received per COC submission: [X] Yes [] No
All containers are appropriate for requested analysis: [X] Yes [] No [] Unknown
All analysis received within specified holding time: [X] Yes [] No [] Unknown
Rad Chem. request received: [] Yes [X] No, If "Yes" sample survey results: [] < 0.5 mrem/hr [] ≥ 0.5 mrem/hr
Rad Chem. meter calibration date verified: [] Yes [X] No

Sample submission details are entered in the Environmental Laboratory LIMS.

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

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.

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0426-01

Location ID: Industry Staff Breakroom	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:27	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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

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

Final Report
 Analytical Results

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

MDH Sample Number: 2310426-02

Location ID: Industry Carpentry	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:33	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:50	EPA 200.7
Manganese	Z-01	13.5	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:34	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:34	EPA 200.8

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<p><i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i></p>
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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	City: None
Collector ID: None	Generated: 09/18/23 16:37


MDH Sample Number: 23I0426-02RE1

Location ID: Industry Carpentry	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:33	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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	City: None
Collector ID: None	Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-03

Location ID: Industry Shop S	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:37	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	<	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
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:37	EPA 200.8

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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	City: None
Collector ID: None	Generated: 09/18/23 16:37


MDH Sample Number: 23I0426-03RE1

Location ID: Industry Shop S	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:37	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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	City: None
Collector ID: None	Generated: 09/18/23 16:37

MDH Sample Number: 23I0426-04

Location ID: Industry Shop A	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:45	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	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

Authorized by:



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
Collected By: Brenda	City: None
Collector ID: None	Generated: 09/18/23 16:37


MDH Sample Number: 23I0426-04RE1

Location ID: Industry Shop A	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:45	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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	City: None
Collector ID: None	Generated: 09/18/23 16:37

MDH Sample Number: 2310426-05

Location ID: Industry Building Maintenance	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:56	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	<	20.0	ug/L	B3I1093	09/14/23 07:13	09/14/23 13:56	EPA 200.7
Manganese	Z-01	13.7	10.0	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:49	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B3I1035	09/12/23 11:05	09/13/23 16:49	EPA 200.8

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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	City: None
Collector ID: None	Generated: 09/18/23 16:37


MDH Sample Number: 23I0426-05RE1

Location ID: Industry Building Maintenance	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:56	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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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

Batch Summary

Samples in Batch: B311013 - Microbiology Prep

2310426-01 2310426-02 2310426-03 2310426-04 2310426-05

Samples in Batch: B311035 - EPA 200 Series Prep

2310426-01 2310426-02 2310426-02RE1 2310426-03 2310426-03RE1 2310426-04 2310426-04RE1
2310426-05 2310426-05RE1

Samples in Batch: B311093 - Metals Prep

2310426-01 2310426-02 2310426-03 2310426-04 2310426-05

Authorized by:

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

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 B311035 - EPA 200 Series Prep

Blank (B311035-BLK1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 15:47

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 (B311035-BS1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP1)

Source: 2310419-06

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 (B311035-DUP2)

Source: 2310426-03

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP3)

Source: 2310426-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 13:37

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		179	10.0	ug/L		178			0.6	20

Matrix Spike (B311035-MS1)

Source: 2310419-06

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 Limit
Copper		62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		

FINAL REPORT

Report ID: 09182023163742

Authorized by:

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

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 B311035 - EPA 200 Series Prep

Matrix Spike (B311035-MS1) Source: 2310419-06 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 Limit
Manganese		77.3		ug/L	50		100	70-130		

Matrix Spike (B311035-MS2) Source: 2310426-03 Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-MS3) Source: 2310426-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 B311093 - Metals Prep

Blank (B311093-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						

LCS (B311093-BS1) Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP1) Source: 2310419-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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 (B311093-DUP2) Source: 2310420-05 Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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

FINAL REPORT

Report ID: 09182023163742

Authorized by:

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

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 B3I1093 - Metals Prep

Matrix Spike (B3I1093-MS1)

Source: 23I0419-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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: 23I0420-05

Prepared: 09/13/23 16:17 Analyzed: 09/14/23 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: 09182023163742

Authorized by:

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

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

Authorized by:

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



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: 2310427

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

Final Report
 Summary of Samples Received

Program Code: LS	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected By: Brenda / Corey	City: None
Collector ID: 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	23I0427-01	Drinking Water	09/11/23 15:36	09/11/23 18:47	18.4
Kitchen Food Prep	23I0427-02	Drinking Water	09/11/23 15:44	09/11/23 18:47	18.4
Kitchen Dish Room	23I0427-03	Drinking Water	09/11/23 15:49	09/11/23 18:47	18.4
Rec Lower Area	23I0427-04	Drinking Water	09/11/23 15:57	09/11/23 18:47	18.4
Rec Upper Area	23I0427-05	Drinking Water	09/11/23 16:03	09/11/23 18:47	18.4
Health Services Staff Area	23I0427-06	Drinking Water	09/11/23 16:10	09/11/23 18:47	18.4
BW - 812	23I0427-07	Drinking Water	09/11/23 16:36	09/11/23 18:47	18.4
BW Swamp Closet	23I0427-08	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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Stefan Saravia, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	BACTI 150ml Sterial, Na2S2O3	Metals 250ml HDPE, HNO3
1	Health Services P11 Area	9/11/23	3:36 pm	Brenda 0.23 mg/L Total CL	DW	1-TSS	1	1
2	Kitchen Food prep	9/11/23	3:44 pm	0.03 mg/L	DW	1-TSS	1	1
3	Kitchen Dish room	9/11/23	3:49 pm	0.25 mg/L	DW	1-TSS	1	1
4	Rec Lower Area	9/11/23	3:57 pm	0.00 mg/L	DW	1-TSS	1	1
5	Rec Upper Area	9/11/23	4:03 pm	0.10 mg/L	DW	1-TSS 1-PBCL 1-TSS	1	1
6	Health Services Staff Area	9/11/23	4:10 pm	0.10 mg/L	DW	1-PBCL 1-TSS	1	1
7	BW - 812	9/11/23	4:36 pm	0.63 mg/L	DW	1-TSS	1	1
8	BW Swinnet	9/11/23	4:43	0.70 mg/L	DW	1-PBCL	1	1
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Sue Larson	9/11/23	4:53	Wagner	09/11/23	18:48
Sue Larson	9/11/23	6:45	Wagner		

Sample Condition Upon Receipt
Minnesota Department of Health Public Health Laboratory
Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 18:47

Courier: [X] Walk-in [] FedEx [] Spee-Dee [] UPS [] USPS [] Other courier
Tracking #
Client drop-off: [] Refrigerator (1) (186) (207) () [] Freezer (185) () [] Unrefrigerated
Parcel: [X] Plastic cooler [] Styrofoam/cardboard cooler [] Cardboard box [] Envelope [] Plastic can
Custody seals present: [X] 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 [X] None [] Other
Cooling material: [X] Wet ice (loose) [] Wet ice pack #() [] Gel pack #() [] Dry ice [] None
Condition of cooling material: [X] Solid [] Partially frozen [] Liquid; Liquid temperature: °C [] N/A
Representative sample temperature: 18.4 °C IR thermometer used: B-19
Evidence of freezing: [X] Yes [] No

Initials of person receiving parcel: JB

Chain of Custody, Sample Container, & Analysis Information

Chain of Custody received: [X] Yes [] No
Chain of Custody type: [] Standard [] Civil [] Criminal [] Biological [X] Priority/Emergency [] Unknown
All containers unique to Chain of Custody: [X] Yes [] No
All containers collected prior to expiration date: [X] Yes [] No [] Unknown
All containers received intact: [X] Yes [] No
All containers received per COC submission: [X] Yes [] No
All containers are appropriate for requested analysis: [X] Yes [] No [] Unknown
All analysis received within specified holding time: [X] Yes [] No [] Unknown
Rad Chem. request received: [] Yes [X] No, If "Yes" sample survey results: [] < 0.5 mrem/hr [] ≥ 0.5 mrem/hr
Rad Chem. meter calibration date verified: [] Yes [X] 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	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected by: Brenda / Corey	City: None
Collector ID: None	Generated: 09/18/2023 16:35

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

Authorized by:

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

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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 2310427-01

Location ID: Health Services Pill Area	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.23
Field Name: None	Collect Time: 15:36	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311076	09/13/23 14:12	09/15/23 08:43	SM 2540 D 22nd ED

Microbiological Parameters

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B311013	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	B311094	09/14/23 07:17	09/14/23 14:10	EPA 200.7
Manganese	Z-01b	22.4	10.0	ug/L	B311035	09/12/23 11:05	09/13/23 16:52	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B311035	09/12/23 11:05	09/13/23 16:52	EPA 200.8

Authorized by:



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
Collected By: Brenda / Corey	City: None
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-01RE1

Location ID: Health Services Pill Area	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.23
Field Name: None	Collect Time: 15:36	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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

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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 2310427-02

Location ID: Kitchen Food Prep	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.03
Field Name: None	Collect Time: 15:44	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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-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

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

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
Collector ID: None	Generated: 09/18/23 16:35


MDH Sample Number: 23I0427-02RE1

Location ID: Kitchen Food Prep	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.03
Field Name: None	Collect Time: 15:44	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

Authorized by:  Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<p><i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i></p>
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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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 2310427-03

Location ID: Kitchen Dish Room	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.25
Field Name: None	Collect Time: 15:49	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311076	09/13/23 14:12	09/15/23 08:44	SM 2540 D 22nd ED

Microbiological Parameters

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Method
Coliform, Total		Absent	1	/100mL	B311013	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	B311094	09/14/23 07:17	09/14/23 14:17	EPA 200.7
Manganese	Z-01b	22.3	10.0	ug/L	B311035	09/12/23 11:05	09/13/23 16:58	EPA 200.8
Lead	Z-01b	<	1.00	ug/L	B311035	09/12/23 11:05	09/13/23 16:58	EPA 200.8

Authorized by:



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
Collected By: Brenda / Corey	City: None
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-03RE1

Location ID: Kitchen Dish Room	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.25
Field Name: None	Collect Time: 15:49	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	ug/L	B3I1035	09/15/23 08:33	09/15/23 13:55	EPA 200.8

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

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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-04

Location ID: Rec Lower Area	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.00
Field Name: None	Collect Time: 15:57	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:44	SM 2540 D 22nd ED

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
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

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

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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-05

Location ID: Rec Upper Area	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.10
Field Name: None	Collect Time: 16:03	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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
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	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

MDH Sample Number: 2310427-06

Location ID: Health Services Staff Area	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.10
Field Name: None	Collect Time: 16:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:40	SM 2540 D 22nd ED

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
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

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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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 23I0427-07

Location ID: BW - 812	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.63
Field Name: None	Collect Time: 16:36	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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
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

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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
Collector ID: None	Generated: 09/18/23 16:35

MDH Sample Number: 2310427-08

Location ID: BW Swamp Closet	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.70
Field Name: None	Collect Time: 16:43	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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	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

Batch Summary

Samples in Batch: B311013 - Microbiology Prep

2310427-01 2310427-02 2310427-03 2310427-04 2310427-05 2310427-06 2310427-07
2310427-08

Samples in Batch: B311035 - EPA 200 Series Prep

2310427-01 2310427-01RE1 2310427-02 2310427-02RE1 2310427-03 2310427-03RE1 2310427-04
2310427-07

Samples in Batch: B311065 - EPA 200 Series Prep

2310427-05 2310427-06 2310427-08

Samples in Batch: B311075 - General Chemistry Prep

2310427-06 2310427-07

Samples in Batch: B311076 - General Chemistry Prep

2310427-01 2310427-02 2310427-03 2310427-04 2310427-05

Samples in Batch: B311094 - Metals Prep

2310427-01 2310427-02 2310427-03 2310427-04 2310427-05 2310427-06 2310427-07
2310427-08

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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 B311075 - General Chemistry Prep

Blank (B311075-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 (B311075-DUP1) Source: 23I0408-01 Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-DUP2) Source: 23I0408-06 Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-SRM1) 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		46.00	2.5	mg/L	44.8		103	79.7-107		

Batch B311076 - General Chemistry Prep

Blank (B311076-BLK1) Prepared: 09/13/23 14:12 Analyzed: 09/15/23 08:42

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 (B311076-DUP1) Source: 23I0427-01 Prepared: 09/13/23 14:12 Analyzed: 09/15/23 08:43

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 (B311076-SRM1) Prepared: 09/13/23 14:12 Analyzed: 09/15/23 08:43

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Solids, Suspended		46.00	2.5	mg/L	44.8		103	79.7-107		

FINAL REPORT

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.

Batch B311035 - EPA 200 Series Prep

Blank (B311035-BLK1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 15:47

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 (B311035-BS1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP1)

Source: 2310419-06

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 (B311035-DUP2)

Source: 2310426-03

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP3)

Source: 2310426-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 13:37

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		179	10.0	ug/L		178			0.6	20

Matrix Spike (B311035-MS1)

Source: 2310419-06

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 Limit
Copper		62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		

FINAL REPORT

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.

Batch B311035 - EPA 200 Series Prep

Matrix Spike (B311035-MS1) Source: 2310419-06 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 Limit
Manganese		77.3		ug/L	50		100	70-130		

Matrix Spike (B311035-MS2) Source: 2310426-03 Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-MS3) Source: 2310426-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 B311065 - EPA 200 Series Prep

Blank (B311065-BLK1) Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-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	ug/L						

LCS (B311065-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		

FINAL REPORT

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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 B311065 - EPA 200 Series Prep

LCS (B311065-BS2)

Prepared: 09/13/23 08:48 Analyzed: 09/15/23 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 (B311065-DUP1)

Source: 2310409-03

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP2)

Source: 2310427-06

Prepared: 09/13/23 08:48 Analyzed: 09/13/23 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 (B311065-DUP3)

Source: 2310409-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 (B311065-MS1)

Source: 2310409-03

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 (B311065-MS2)

Source: 2310427-06

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		

FINAL REPORT

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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 B311065 - EPA 200 Series Prep

Matrix Spike (B311065-MS3) Source: 23I0409-03RE1 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 B311094 - Metals Prep

Blank (B311094-BLK1) Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:06

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						

LCS (B311094-BS1) Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-DUP1) Source: 23I0427-01 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-DUP2) Source: 23I0428-02 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-MS1) Source: 23I0427-01 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-MS2) Source: 23I0428-02 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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: 09182023163534

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

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 B3I1094 - Metals Prep

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

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

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



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: 2310428

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

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

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 Public Health Laboratory, Minnesota Department of Health

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected		
						1L HDPE unpreserved	150mL Sterial, Na2S2O3	250ml HDPE, HNO3
1	CHAPEL IP ^{Boothman} 1300 ^{9/11/23}	9/11/23	17:27	Brian Noma	DW	1	1	1
2	SECURITY CENTER ¹³⁰⁰ ^{9/11/23}				DW			
3	Security Center ^{merris} ^{restroom} ^{9/11/23}	9/11/23	17:33	Brian Noma	DW	1	1	1
4	Operations Center ^{Breakroom} ^{9/11/23}	9/11/23	17:40	Brian Noma	DW	1	1	1
5					DW			
6					DW			
7					DW			
8					DW			
9					DW			
10					DW			
11					DW			
12					DW			
13					DW			
14					DW			
15					DW			
16					DW			
17					DW			
18					DW			
19					DW			
20					DW			



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
<i>[Signature]</i>	9/11/23	17:48	<i>[Signature]</i> / MCH	09/11/23	18:50
<i>[Signature]</i>	9/11/23	17:48	<i>[Signature]</i> / MCH		
<i>[Signature]</i>	9/11/23	18:48			

Sample Condition Upon Receipt

Minnesota Department of Health Public Health Laboratory

Data Entry Worksheet



Parcel Information Date & time of receipt: **SEP 11 '23 18:47**

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:** 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 None
 Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 6.0 °C **IR thermometer used:** B-19

Evidence of freezing: Yes No

Initials of person receiving parcel: JB

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 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 No

Sample submission details are entered in the Environmental Laboratory LIMS:

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

Final Report
Case Narrative

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: 09/18/2023 16:32

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

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

Final Report
 Analytical Results

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

MDH Sample Number: 2310428-01

Location ID: CHAPEL IP Bathroom (weird sink faucet)	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:27	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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	B311013	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	B311094	09/14/23 07:17	09/14/23 14:28	EPA 200.7
Manganese	Z-01	52.0	10.0	ug/L	B311035	09/12/23 11:05	09/13/23 17:07	EPA 200.8
Lead	Z-01	<	1.00	ug/L	B311035	09/12/23 11:05	09/13/23 17:07	EPA 200.8

Authorized by:



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
Collected By: Brian Noma	City: None
Collector ID: None	Generated: 09/18/23 16:33

MDH Sample Number: 23I0428-01RE1

Location ID: CHAPEL IP Bathroom (weird sink faucet)	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:27	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

Authorized by:



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
Collected By: Brian Noma	City: None
Collector ID: None	Generated: 09/18/23 16:33

MDH Sample Number: 2310428-02

Location ID: Security Center men's restroom	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:33	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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

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

Final Report
 Analytical Results

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

MDH Sample Number: 2310428-03

Location ID: Operation Center Breakroom	Collect Date: 09/11/23	Field Residual Chlorine Result: None
Field Name: None	Collect Time: 17:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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
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	ug/L	B3I1066	09/13/23 09:15	09/13/23 18:27	EPA 200.8

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

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

Batch Summary

Samples in Batch: B311013 - Microbiology Prep

23I0428-01 23I0428-02 23I0428-03

Samples in Batch: B311035 - EPA 200 Series Prep

23I0428-01 23I0428-01RE1

Samples in Batch: B311066 - EPA 200 Series Prep

23I0428-02 23I0428-03

Samples in Batch: B311094 - Metals Prep

23I0428-01 23I0428-02 23I0428-03

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

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 B311035 - EPA 200 Series Prep

Blank (B311035-BLK1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 15:47

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 (B311035-BS1)

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP1)

Source: 2310419-06

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 (B311035-DUP2)

Source: 2310426-03

Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-DUP3)

Source: 2310426-03RE1

Prepared: 09/15/23 08:33 Analyzed: 09/15/23 13:37

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		179	10.0	ug/L		178			0.6	20

Matrix Spike (B311035-MS1)

Source: 2310419-06

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 Limit
Copper		62.4		ug/L	50		97	70-130		
Lead		49.9		ug/L	50		100	70-130		

FINAL REPORT

Report ID: 09182023163322

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

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 B311035 - EPA 200 Series Prep

Matrix Spike (B311035-MS1) Source: 2310419-06 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 Limit
Manganese		77.3		ug/L	50		100	70-130		

Matrix Spike (B311035-MS2) Source: 2310426-03 Prepared: 09/12/23 11:05 Analyzed: 09/13/23 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 (B311035-MS3) Source: 2310426-03RE1 Prepared: 09/15/23 08:33 Analyzed: 09/15/23 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 B311066 - EPA 200 Series Prep

Blank (B311066-BLK1) Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:18

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 (B311066-BS1) Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:21

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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 (B311066-DUP1) Source: 2310431-01 Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:33

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Copper		5.32	10.0	ug/L		<			2	20
Lead		<	1.00	ug/L		<				20

FINAL REPORT

Report ID: 09182023163322

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 Public Health Laboratory, Minnesota Department of Health

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 B311066 - EPA 200 Series Prep

Duplicate (B311066-DUP1) Source: 2310431-01 Prepared: 09/13/23 09:15 Analyzed: 09/13/23 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 (B311066-MS1) Source: 2310431-01 Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:36

Analyte	Analyte Qualifier(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 B311094 - Metals Prep

Blank (B311094-BLK1) Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:06

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						

LCS (B311094-BS1) Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-DUP1) Source: 2310427-01 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-DUP2) Source: 2310428-02 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-MS1) Source: 2310427-01 Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:13

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

FINAL REPORT

Report ID: 09182023163322

Authorized by:

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

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 B311094 - Metals Prep

Matrix Spike (B311094-MS1)		Source: 23I0427-01	Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:13				RPD	RPD		
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 (B311094-MS2)		Source: 23I0428-02	Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:38				RPD	RPD		
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		

Authorized by:

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

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



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: 2310431

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,

A handwritten signature in cursive script that reads 'Stefan Saravia'.

Stefan Saravia, Environmental Laboratory Manager
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.gov/div/eh/environmental>

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 16:30

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	23I0431-01	Drinking Water	09/11/23 15:48	09/11/23 18:47	0.0
B West 512	23I0431-02	Drinking Water	09/11/23 15:58	09/11/23 18:47	0.0
B West 630	23I0431-03	Drinking Water	09/11/23 16:10	09/11/23 18:47	0.0
B West 203	23I0431-04	Drinking Water	09/11/23 16:18	09/11/23 18:47	0.0
B West 327	23I0431-05	Drinking Water	09/11/23 16:27	09/11/23 18:47	0.0
B West 705	23I0431-06	Drinking Water	09/11/23 16:35	09/11/23 18:47	0.0
B West 418	23I0431-07	Drinking Water	09/11/23 16:40	09/11/23 18:47	0.0

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

Line #	Location ID	Collection Date	Collection Time	Collector Name	Sample Type	# Containers collected			Total Coliform 150mL Steril, Na2S2O3	Fc, Mn 250ml HDPE, HNO3	Total Cl
						TSS 1L HDPE unpreserved					
1	B West 120	9/11/23	15:48	Brian Noma	DW	1	1	1	1	1.56	
2	B West 512	9/11/23	15:58	Brian Noma	DW	1	1	1	1	2.0	
3	B West 630	9/11/23	16:10	Brian Noma	DW	1	1	1	1	1.34	
4	B West 203	9/11/23	16:18	Brian Noma	DW	1	1	1	1	0.68	
5	B West 327	9/11/23	16:27	Brian Noma	DW	1	1	1	1	0.65	
6	B West 705	9/11/23	16:35	Brian Noma	DW	1	1	1	1	0.65	
7	B West 418	9/11/23	16:40	Brian Noma	DW	1	1	1	1	0.88	
8					DW						
9					DW						
10					DW						
11					DW						
12					DW						
13					DW						
14					DW						
15					DW						
16					DW						
17					DW						
18					DW						
19					DW						
20					DW						



Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
<i>[Signature]</i>	9/11/23	16:51	<i>[Signature]</i>	09/11/23	18:47
<i>[Signature]</i>	9/11/23	16:51	<i>[Signature]</i>		
<i>[Signature]</i>	9/11/23	18:47			

Sample Condition Upon Receipt Minnesota Department of Health Public Health Laboratory Data Entry Worksheet



Parcel Information Date & time of receipt: SEP 11 '23 18:47

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: 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 None
 Refrigerator (1) (186) (207) () Freezer (185) () Other _____

Condition of cooling material: Solid Partially frozen Liquid; Liquid temperature: _____ °C N/A

Representative sample temperature: 0.0 °C IR thermometer used: B-19

Evidence of freezing: Yes No

Initials of person receiving parcel: JB

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 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 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	Project ID: MN Correctional Facility - Stillwater
Program Name: Special Investigation	Facility Name: 1820002
Collected by: Brian Noma	City: None
Collector ID: None	Generated: 09/18/2023 16:30

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

Authorized by:

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0431-01

Location ID: B West 120	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.56
Field Name: None	Collect Time: 15:48	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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
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

Authorized by:



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
Collected By: Brian Noma	City: None
Collector ID: None	Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-02

Location ID: B West 512	Collect Date: 09/11/23	Field Residual Chlorine Result: 2.0
Field Name: None	Collect Time: 15:58	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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
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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0431-03

Location ID: B West 630	Collect Date: 09/11/23	Field Residual Chlorine Result: 1.34
Field Name: None	Collect Time: 16:10	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0431-04

Location ID: B West 203	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.68
Field Name: None	Collect Time: 16:18	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:41	SM 2540 D 22nd ED

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

Final Report
 Analytical Results

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

MDH Sample Number: 23I0431-05

Location ID: B West 327	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.65
Field Name: None	Collect Time: 16:27	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:41	SM 2540 D 22nd ED

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
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

Authorized by:  <hr/> Stefan Saravia, Environmental Laboratory Manager Public Health Laboratory, Minnesota Department of Health	<i>The results in this report apply only to the samples analyzed. This report must not be reproduced, except in full, without the written approval of the laboratory.</i>
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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: Brian Noma	City: None
Collector ID: None	Generated: 09/18/23 16:30

MDH Sample Number: 23I0431-06

Location ID: B West 705	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.65
Field Name: None	Collect Time: 16:35	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:41	SM 2540 D 22nd ED

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
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

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 Public Health Laboratory, Minnesota Department of Health

Final Report
 Analytical Results

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

MDH Sample Number: 23I0431-07

Location ID: B West 418	Collect Date: 09/11/23	Field Residual Chlorine Result: 0.88
Field Name: None	Collect Time: 16:40	Field Fluoride Result: None
Sampling Point: None	Matrix: Drinking Water	Field pH Result: None
QA Type: None		Field PO ₄ 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 08:41	SM 2540 D 22nd ED

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

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

Batch Summary

Samples in Batch: B311013 - Microbiology Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

Samples in Batch: B311066 - EPA 200 Series Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

Samples in Batch: B311075 - General Chemistry Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

Samples in Batch: B311094 - Metals Prep

2310431-01 2310431-02 2310431-03 2310431-04 2310431-05 2310431-06 2310431-07

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

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 B311075 - General Chemistry Prep

Blank (B311075-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 (B311075-DUP1)

Source: 2310408-01

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-DUP2)

Source: 2310408-06

Prepared: 09/13/23 14:11 Analyzed: 09/15/23 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 (B311075-SRM1)

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		46.00	2.5	mg/L	44.8		103	79.7-107		

Authorized by:

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

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 Series Prep

Blank (B3I1066-BLK1)

Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:18

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 (B3I1066-BS1)

Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:21

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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: 23I0431-01

Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:33

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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: 23I0431-01

Prepared: 09/13/23 09:15 Analyzed: 09/13/23 18:36

Analyte	Analyte Qualifier(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 (B3I1094-BLK1)

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:06

Analyte	Analyte Qualifier(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron		<	20.0	ug/L						

LCS (B3I1094-BS1)

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 14:08

FINAL REPORT

Report ID: 09182023163119

Authorized by:

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

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 B311094 - Metals Prep

LCS (B311094-BS1)

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-DUP1)

Source: 2310427-01

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-DUP2)

Source: 2310428-02

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-MS1)

Source: 2310427-01

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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 (B311094-MS2)

Source: 2310428-02

Prepared: 09/13/23 16:18 Analyzed: 09/14/23 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: 09182023163119

Authorized by:



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

Authorized by:

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