

**Alaska Laboratory AK01000**

**Client** City of Saint Paul Water System

**Contact** Adrian Dirks

**Project Name** City of Saint Paul CMP 2023

**AWL #** AWL-23-03712

**PWS #** AK2260286

Please direct any questions regarding the final report to [Mary@AKWaterLabs.com](mailto:Mary@AKWaterLabs.com) or [Matt@AKWaterLabs.com](mailto:Matt@AKWaterLabs.com), or call 907-373-6130.

The results presented in this report meet the requirement of the laboratory's certifications and internal QC processes. Any exceptions will be noted in the case narratives attached. Subcontract data will be entered into AWL final reports. Full subcontract reports are available upon request.

The attached should contain analytical results for the analyses submitted on the client chain of custody. The information includes no opinions of the analysts or labs, data is represented after meeting certified testing requirements, and quality control measures.

Reproduction of the report requires the written approval of the laboratory.

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AWL Laboratory Management

Date

**Alaska Laboratory #AK01000**

Client Project Name	City of Saint Paul CMP 2023	AWL #	AWL-23-03712
Receipt Date and Time	12/19/2023 12:52	Due Date	12/27/2023 15:00
Cooler Temperature (C)	Ambient	Sampler Initials	AD
Sample receipt comments	Received by BFM on 12/19/2023 at ambient temperature by courier.		
Log In	NKM 12/20/2023	DQO	BFM 12/20/2023

**Samples Received**

Sample Location	AWL ID	Collection Date/Time	Analysis Date/Time	Analysis	Notes
School	AWL-23-03712-001	12/18/2023 11:34	12/19/23 16:04	SM9223B PA	2945

**Analytical Methods**

Analyte	Analytical Method	Comments
Total Coliform, E. Coli	SM9223B Total Coliform PA	

Certification: Alaska Drinking Water  
 CMDP Job ID: 479837

Comments:

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**Definitions:**

DUP: Sample Duplicate  
LCS/LCSD: Laboratory Control Sample/Laboratory Control Sample Duplicate  
MRL: Method Reporting Limit  
MB: Method Blank  
MCL: Maximum Contaminant Limit  
MDL: Method Detection Limit  
MS/MSD: Matrix Spike/Matrix Spike Duplicate  
N/A: Not Applicable  
TNTC: Cell count is Too Numerous To Count  
<MDL: Result recovery is below the laboratory detectable limit, listed as the MDL.

**Data Qualifiers:**

B: The result of both the method blank and the target sample were recovered above the MDL.  
D: Sample was diluted prior to analysis.  
J: The reported result was recovered below the MRL (Method Reporting Limit), but above the MDL (Method Detection Limit), and should be considered an estimate.  
U: Result was recovered below the MDL, MRL, LOD, and LOQ.  
\*: The LCS/LCSD or DUP was recovered outside method specified control limits.  
H: Sample was received or analyzed outside of method specified holding time.  
E: Sample recovery exceeded the MCL.  
Q: One or more Quality Control criteria was recovered outside of control limits.

**General Comments:**

1.0) Basis: "As Received" = Analyzed as received from client. "Dry" = dried prior to being analyzed. "Dry Weight Corrected" = analyzed as received, result corrected for percent moisture.

**Alaska Laboratory #AK01000**

**Analytical Results**

Client City of Saint Paul Water System Project City of Saint Paul CMP 2023  
Contact Adrian Dirks PWS # AK2260286  
Project City of Saint Paul CMP 2023

Sample Location: School SPID: SPDS001TCR Collection Date/Time: 12/18/2023 11:34  
FCID: DS001  
AWL ID/ Fraction: AWL-23-03712-001 Matrix: DW Free Cl 0.13 Batch ID: 121923-01-PA18

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Date/Time	Anaylst Initials
Total Coliform	Absent	Presence/Absence	1	1		1	Colilert-18 PA	12/19/23 16:04	BFM
E. Coli	Absent	Presence/Absence	1	1		1	Colilert-18 PA	12/19/23 16:04	BFM

Comments:

AWL-23- 03712

(907) 258-2155

# Logical Analysis Chain of Custody

24

<b>Lab Use Only</b>	
Bottle ID:	2945
Date Received:	12/19/23
Time Received:	12:55
Received by:	Blm
Temp:	Amb
Delivered By:	Thawn/Courier

\_\_\_ Std \_\_\_ 1 BD \_\_\_ 2BD (Rush at additional cost) LGN: \_\_\_\_\_

Items in **BOLD** MUST be filled out by the sampler. Missing information may result in lab rejection of the sample.

Client: Saint Paul Water System Reporting Contact: Adrian Dirks  
 Address: PO Box 901 City, State, Zip: Saint Paul, AK 99660  
 Phone: 907-600-4358 Email: adirks@atpaulak.com  
 Date Sampled: 12/19/23 Time Sampled: 11:34 PWS ID#: 260286  
 Location Sampled: School Project ID: 2023 CMP  
 Sampler Name Printed: Adrian Dirks Sign/Date Here: Adrian Dirks

Drinking Water:  Treated:  Total Chlorine: 0.13 mg/L  Ultraviolet  Filtered  \_\_\_\_\_  
 Untreated  
 Non-Drinking Water:  Salt Water  Wastewater  Raw Source Water  Pool and Spa

**Analysis Requested:**  **Standard Drinking Water: Total Coliform Bacteria/E. coli – Presence/Absence Results**  
 **Drinking Water: Total Coliform Bacteria – Quanti-tray MPN**  
 **Wastewater: Fecal Coliform Bacteria – Membrane Filtration.....Hold Time: EPA 8 hours**  
 **Wastewater: Enterococcus Bacteria – Quanti-tray MPN.....Hold Time: EPA 8 hours**  
 **Marine: Fecal Coliform Bacteria – Membrane Filtration .....Hold Time: EPA 8 hours**  
 **Marine: Enterococcus Bacteria – Quanti-tray MPN..... Hold Time: EPA 8 hours**  
Above samples accepted Monday through Thursday until 1:00 pm  
 **Pool and Spa: Heterotrophic Plate Count – Simplate and Total Coliform – Quanti-tray MPN**  
Above samples accepted Monday through Wednesday until 1:00 pm  
 **Other: Specify Analysis:** \_\_\_\_\_

Samples received after Wednesday at 1pm for Pool/Spa, and Thursday after 1pm for Total Coliforms require weekend analysis with an additional \$150 fee. Sample receive times may change with Holiday hours

Contact your lab for details and weekend costs.

## SAMPLING INSTRUCTIONS



- 1: Do not rinse the bottle. The powder in the bottle is meant to be there and will not contaminate your sample.
- 2: Remove all hoses, aerators or screens from the faucet. Avoid filling from swivel faucets or kitchen sinks. After removing screens, disinfect the faucet by dipping the spout in a cap of bleach for 30 seconds.
- 3: Run water for at least 3-5 minutes to ensure that water has not been sitting in the pipes or tanks for a long time. **WASH YOUR HANDS WITH SOAP AND WARM WATER!**
- 4: Open sample bottle carefully. Remove the red plastic sterile strip from the bottle and fill the bottle to at least the fill line (120mL). **Do not fill up to the top,** allow 1" of head space.
- 5: Screw cap on tight. **Take care not to touch the inside of the cap or bottle.** If this happens, start with a new bottle.
- 6: **Fill out paperwork completely, include the time and date sampled** Drop off or send the sample to the lab in secure packaging so the bottle does not break.

**IMPORTANT: The lab must receive the sample when the lab is open for business and within 24 hours of collection.**

Sampling protocol adapted from and photos from: ADEC Drinking Water Publication "Taking a Total Coliform Bacteria Sample Properly" at: <http://www.dec.state.ak.us/eh/dw/publications/publications.html>