



907 E. Dowling Road Unit #24
Anchorage, AK 99518
(907) 258-2155 | Fax (907) 258-6634

ARS Aleut Analytical, LLC

Laboratory Analytical Report

ARS3-23-00454

City of St. Paul
Paul Zavadil
Water Plant
BOX 901
Saint Paul, AK 99660
907-600-4358
adirks@stpaulak.com, pazavadil@stpaulak.com, awegeleben@stpaulak.com, smerculief@stpaulak.com, awegeleben@stpaulak.com, smerculief@stpaulak.com

COC Number: **49130**
Project Name: **St. Paul PWS #260286 2023 CMP**
PWS #: **260286**

Questions regarding this analytical report should be addressed to ARS project manager, Curtis Whisman, who can be reached by phone at 907-258-2155 or email at datareporting@aaa.aleutfederal.com.

I certify that the test results presented in this report (in either hardcopy or electronic file (EDD)) meet the requirements of the laboratory’s certifications and other applicable contract terms and conditions. Any exceptions to the certification or contract will be noted within the case narratives presented in the report. Any subcontracted sample results will be identified within the case narratives presented in the report. In the event this report is an amendment to a previously released report, the case narrative will clearly identify the original report as well as the reason(s) for reissuance. A statement of uncertainty for each analysis is available upon request. I authorize release and issuance of this report on the date signed below.

Jerry Baker

Signature

4/4/2023

Date

Laboratory Management, ARS Aleut Analytical

Title

This report provides analytical results of the requested analysis and does not include any opinions or interpretations. ARS Aleut Analytical, LLC assumes no liability for the use or interpretation of analytical results. Results relate only to items tested. A partial reproduction of this test report is prohibited. Reproduction of this report in full requires the written approval of the laboratory.

Alaska Laboratory# AK00969



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ARS Aleut Analytical, LLC Analytical Reports

for

City of St. Paul

Case Narrative



**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**

Project ID	Client Sample ID	ARS Aleut Analytical Sample ID	SGS Sample ID
260286	Public Works Building	ARS3-23-00454-001	1231141001

Sample	Date Collected	Date Received	Analysis	Basis	Analysis Date/Time
001	03/23/23 13:18	03/24/23	MCR-9223BPA-AQ	As Received	03/24/23 17:00

SAMPLE RECEIPT/PREP

The samples arrived in good condition. The samples were screened for radioactive contamination as per procedure **ARS-062 "Sample Receiving"**. Sample date(s) and time(s) are listed as provided by the client. Turnaround time was set at 5 work days.

Samples were sent to SGS Environmental Services Inc. on 03-24-2023 16:30 and arrived on 03-24-2023 16:41 at 4°C.

Sample 001 Comment:
Public Works Building

ANALYTICAL METHODS

E. Coli and Total Coliform analyses were performed using **SM21 9223B**.

The following are subcontracted analyses and have been reported to us as having met criteria, unless otherwise noted:

MCR-9223BPA-AQ - Total Coliform/E. Coli Presence/Absence

Results for subcontracted analyses are directly behind ARS results.

ANALYTICAL RESULTS

**No QC or CRDL warnings found.

ARS3-23-00454: 9223BPA results submit to state under job ID 332157. CJW 3/31/23.

Notes (Case Narrative)

Definitions:

CRDL	Contract Required Detection Limit
CSU	Combined Standard Uncertainty
DLC	Decision Level Concentration (ANSI N42.23)
DO	Duplicate Original
DUP	Sample Duplicate
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
LOD	Limit of Detection
LOQ	Limit of Quantitation
MBL	Method Blank
MCL	Maximum Contaminant Level
MDA	Minimum Detectable Activity
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
N/A	Not Applicable
NC	Not Calculated
NP	Not Provided
NR	Not Referenced
PQL	Practical Quantitation Limit

Data Qualifiers:

B	The result of both the method blank and the target sample are above the MDL.
D	Sample analysis accomplished through dilution.
J	The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL.
Q	One or more quality control criteria failed.
U	Result is below the MDA, MDL, PQL, LOD, or LOQ
*	LCS/LCSD or Sample DUP fails all Duplicate criteria.
S	Spike
SC	Subcontracted out to another qualified laboratory
H	Holding time exceeded
E	Exceeds MCL
**	Reporting Limit is higher than MCL; Target cannot be detected
‡	Method/Matrix/Analyte not accredited for this certification

Radiochemistry Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 4.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 5.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 6.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (**HPGe**).
- 7.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 8.0) Gamma spectroscopy results are calculated values based on the **ORTEC®** GammaVision ENV32 Analysis Engine.
- 9.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Non-Potable Water**:
Gross Alpha and Gross Beta (EPA 900.0, EPA 9310); Radium 226 (EPA 903.0, EPA 903.1, EPA 9315); Radium 228 (EPA 904.0, EPA 9320); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7470A); Strontium-89 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-02-RC); Tritium (EPA 906.0); Enriched Tritium (ARS-040), Carbon-14 (ARS-019), Tritium/Carbon (ARS-151); Gamma Emitters (EPA 901.1, SM 7120B, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-03); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Pu-10); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, HASL 300 Se-03); Technetium-99 (Eichrom TCW02)
- 10.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Solid and Chemical Materials**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7471B); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02); Tritium (EPA 906.0 Mod); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-01-RC); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Pu-02-RC, HASL 300 Pu-03-RC); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, HASL 300 Se-03, HASL 300 U-02, HASL 300 U-04); Technetium-99 (Eichrom TCS01)
- 11.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Air and Emissions**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); Strontium-89 (Eichrom SRW01, HASL 300 Sr-01-RC); Strontium-90 (Eichrom SRW01, HASL 300 Sr-02-RC); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, HASL 300 Se-03); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, HASL 300 Se-03); Technetium-99 (Eichrom TCW02, Eichrom TCS01)

General Comments:

- 1.0) Modified analysis procedures are procedures that are modified to meet certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "M" or "Mod" to the procedure number (i.e. 901.1M, 901.1 Mod).
- 2.0) All NIOSH method results are reported without blank corrections applied.
- 3.0) 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.



ARS Aleut Analytical, LLC Analytical Reports

for

City of St. Paul

Analytical Results



Laboratory Report of Analysis

To: ARS Aleut Analytical, LLC
907 E. Dowling Road Unit #24
Anchorage, AK 99518
(907)258-2155

Report Number: **1231141**

Client Project: **ARS3-23-00454-1-1**

Dear Amanda Seba,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Danika at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Danika Buzby-Rynders
Project Manager
Danika.Buzby-Rynders@sgs.com

Date

Case Narrative

SGS Client: **ARS Aleut Analytical, LLC**

SGS Project: **1231141**

Project Name/Site: **ARS3-23-00454-1-1**

Project Contact: **Amanda Seba**

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 03/28/2023 7:57:04AM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
ARS3-23-00454-01	1231141001	03/23/2023	03/24/2023	Drinking Water

<u>Method</u>	<u>Method Description</u>
SM21 9223B	Total Coliform P/A Qualitative

Print Date: 03/28/2023 7:57:07AM

Detectable Results Summary

Client Sample ID: **ARS3-23-00454-01**

Lab Sample ID: 1231141001

Microbiology Laboratory

Parameter

E. Coli

Total Coliform

Result

Negative

Negative

Units

100mL

100mL



Results of **ARS3-23-00454-01**

Client Sample ID: **ARS3-23-00454-01**
Client Project ID: **ARS3-23-00454-1-1**
Lab Sample ID: 1231141001
Lab Project ID: 1231141

Collection Date: 03/23/23 13:18
Received Date: 03/24/23 16:41
Matrix: Drinking Water
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Negative		1	1	0.5	100mL	1		03/24/23 17:00
Total Coliform	Negative		1	1	0.5	100mL	1		03/24/23 17:00

Batch Information

Analytical Batch: BTF20164
Analytical Method: SM21 9223B
Analyst: M.A
Analytical Date/Time: 03/24/23 17:00
Container ID: 1231141001-A



Method Blank

Blank ID: MB for HBN 1852781 [BTF/20164]
Blank Lab ID: 1707161

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1231141001

Results by SM21 9223B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
E. Coli	Negative	1	1	0.5	100mL
Total Coliform	Negative	1	1	0.5	100mL

Batch Information

Analytical Batch: BTF20164
Analytical Method: SM21 9223B
Instrument:
Analyst: M.A
Analytical Date/Time: 3/24/2023 5:00:00PM

Print Date: 03/28/2023 7:57:12AM



AAA Chain of Custody

1231141



Lab Name & Address: AAA Anchorage, AK 907 E. Dowling Road Unit #24 Anchorage, AK 99518			Testing Laboratory: SGS Environmental Services Inc. 200 W. Potter Drive Anchorage, AK 99523				COC Number: ARS3-23-00454-1-1											
Report To: Amanda Seba			Special Instructions:				PO Number:											
Phone No: 907-258-2155							Required Certification: Alaska DW											
Email:							Turnaround Time: 5 Business Days											
Client Sample Identification (Name, Designation, Location, etc.)	Date Sampled	Time Sampled	Matrix	No. Of Containers	Comments	SM 9223B - Coliforms PA												
ARS3-23-00454-001 (1A)	03/23/23	13:18	WD	1	Coli Bottle #2869	X												

profile # 267273 10/2/2

Relinquished By:	Date	Time	Received By:	Date	Time	Additional Comments: Temp: 38°C 258 AS: Absent 8 of 10 FUD
<i>[Signature]</i>	3-24-23	1630	<i>[Signature]</i>			
Relinquished By:	Date	Time	Received By:	Date	Time	
			<i>[Signature]</i>	3/24/23	1641	



1231141



SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	
Was temperature between 0-6° C?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
If rush was requested by the client, was the requested TAT approved?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPD L Number provided?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	If "NO", contact client for information.
Sample Login Completion				
Do ID's on sample containers match COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	
If provided on containers, do dates/times collected match COC?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? *See form F-083 "Sample Guide"	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
Were all VOA vials free of headspace >6mm?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
Were all soil VOA samples received field extracted with Methanol?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
For Rush/Short Holding time, was the lab notified?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A	
For any question answered "NO", was the Project Manager notified?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	Reviewer Initials:
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				

**SGS DW Chemistry Certified Analyses
Applicable to PWSID Samples**

ADEC DW-Chemical Certificate AK00971, expires 6-30-2023

Method/ Test Name	Reference	Analyte	Method/ Test Name	Reference	Analyte
200.8	EPA	Aluminum	524.2	EPA	Bromodichloromethane-T
200.8	EPA	Antimony	524.2	EPA	Bromoform-T
200.8	EPA	Arsenic	524.2	EPA	Carbon Tetrachloride-R
200.8	EPA	Barium	524.2	EPA	Chlorobenzene-R
200.8	EPA	Beryllium	524.2	EPA	Chloroform-T
200.8	EPA	Cadmium	524.2	EPA	cis-1,2-Dichloroethylene-R
200.8	EPA	Chromium	524.2	EPA	Dibromochloromethane-T
200.8	EPA	Copper	524.2	EPA	Dichloromethane (Methylene Chloride)-R
200.8	EPA	Lead	524.2	EPA	Ethylbenzene-R
200.8	EPA	Manganese	524.2	EPA	Styrene-R
200.8	EPA	Mercury	524.2	EPA	Tetrachloroethylene-R
200.8	EPA	Nickel	524.2	EPA	Toluene-R
200.8	EPA	Selenium	524.2	EPA	Total THM-T
200.8	EPA	Silver	524.2	EPA	Total Xylenes-R
200.8	EPA	Thallium	524.2	EPA	trans-1,2 Dichloroethylene
200.8	EPA	Zinc	524.2	EPA	Trichloroethylene-R
300.0	EPA	Chloride	524.2	EPA	Vinyl Chloride-R
300.0	EPA	Fluoride	2120B	SM 21st ed	Color
300.0	EPA	Nitrate-N	2130B	SM 21st ed	Turbidity
300.0	EPA	Nitrate-Nitrite as N	2320B	SM 21st ed	Alkalinity
300.0	EPA	Nitrite-N	2510B	SM 21st ed	Conductivity
300.0	EPA	Sulfate	2540C	SM 21st ed	TDS
524.2	EPA	1,1,1-Trichloroethane-R	4500-CN-C,E	SM 21st ed	Cyanide
524.2	EPA	1,1,2-Trichloroethane-R	4500-H-B	SM 21st ed	pH
524.2	EPA	1,1-Dichloroethylene-R	4500-NO3-F	SM 21st ed	Nitrate-N
524.2	EPA	1,2,4-Trichlorobenzene-R	4500-NO3-F	SM 21st ed	Nitrite-N
524.2	EPA	1,2-Dichlorobenzene-R	4500-NO3-F	SM 21st ed	Nitrate-Nitrite as N
524.2	EPA	1,2-Dichloroethane-R	4500-P-E	SM 21st ed	Ortho-phosphate
524.2	EPA	1,2-Dichloropropane-R	5310B	SM 21st ed	Dissolved Organic Carbon (DOC)
524.2	EPA	1,4-Dichlorobenzene-R	5310B	SM 21st ed	Total Organic Carbon (TOC)
524.2	EPA	Benzene-R			

ADEC DW-Micro Certificate AK00971, expires 6-30-2023

Method/ Test Name	Reference	Analyte	Method/ Test Name	Reference	Analyte
9215 B HPC Pour Plate	SM	Heterotrophic	9223 B Colilert-18 MPN	SM	E. coli
9223 B Colilert MPN	SM	E. coli	9223 B Colilert-18 PA	SM	E. coli
9223 B Colilert PA	SM	E. coli	9223 B Colilert-18 PA	SM	Total Coliform
9223 B Colilert PA	SM	Total Coliform			



ARS Aleut Analytical, LLC Analytical Reports

for

City of St. Paul

Sample Management Records



Microbiological Analysis Chain of Custody

Anchorage Laboratory
907 East Dowling Road Suite 24
Anchorage, Alaska 99518
(907) 258-2155

Lab Use Only	
Bottle ID:	2869
Date Received:	3-24-23
Time Received:	6:35
Received by:	CSW
Temp:	Am
Delivered By:	Alert

___ 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: 03/23/23 **Time Sampled:** 1318 **PWS ID#:** 260286
Location Sampled: Public Works building **Project ID:** 2023 CMP
Sampler Name Printed: Adrian Dirks **Sign/Date Here:** *Adrian Dirks* 03/23/23

Drinking Water: Treated: Total Chlorine: 0.21 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 FiltrationHold 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.

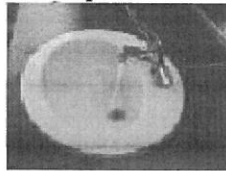
SAMPLING INSTRUCTIONS

Step Two



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.

Step Three



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!**

Step Four



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.

Step Five



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.

Step Six



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>

SHIPPER'S NAME, ADDRESS & PHONE
CITY OF ST PAUL
PO BOX 901
ST PAUL ISLAND AK 99660

SHIPPER'S ACCOUNT NUMBER
9076004358

NOT AIR WAYBILL (AIR CONSIGNMENT NOTE)
Ravn 4700 Old International Airport Road
 Anchorage, Alaska 99502
 (907)-243-2761

CONSIGNEE'S NAME, ADDRESS & PHONE
ARS ALEUT ANALYTICAL
907 E. DOWLING RD UNIT 24
ANCHORAGE AK 99518

CONSIGNEE'S ACCOUNT NUMBER
9072582155

It is agreed the goods described herein are accepted in apparent good order and condition (except as noted) SUBJECT TO THE CONDITIONS OF CONTRACT as displayed at the Ravn cargo acceptance counter and online at www.flyravn.com/cargo-services/cargo-resources. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAYBE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIERS DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO NOTICES IN THE CARRIER'S CONDITIONS OF CONTRACT CONCERNING CARRIER'S LIMIT OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.

ISSUING CARRIER'S AGENT NAME, CITY & PHONE
Shannon City of Saint Paul
St. Paul

AGENT'S IATA CODE
9075463121

Received in Good Order and Condition at _____ Place _____ Date/Time _____

Signature of Consignee or its agent: _____

Printed Name/Title: _____

AGENT'S IATA CODE
 ACCOUNT NO.

AIRPORT OF DEPARTURE
St Paul

Declared Value \$ 0.00 Insured Amount \$ 0.00

ALSO NOTIFY NAME & ADDRESS

ACCOUNTING INFORMATION 7536656
 Acc#: C000004 City of Saint Paul

PO: 03232023 A.D.

ROUTING AND DESTINATION

TO	BY FIRST CARRIER	TO	BY	TO	BY
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AIRPORT OF DESTINATION
Anchorage

FOR CARRIER USE ONLY
 FLIGHT/DATE FLIGHT/DATE

COMMENTS
AKDL verified
NOA 907-258-2155

No. Of Pieces Rcp	Gross Weight	kg lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate/Charge	Total	Nature and Quantity of Goods (Inclu. Dimensions or Volume)
1	1	lb	F	Rush	1	\$47.06	\$47.06	Water Samples
1	1						\$47.06	

PREPAID	WEIGHT CHARGE	COLLECT
\$47.06		
FEDERAL EXCISE TAX		
\$2.94		
TOTAL OTHER CHARGES DUE AGENT		
\$0.00		
TOTAL OTHER CHARGES DUE CARRIER		
\$0.00		
TOTAL PREPAID	TOTAL COLLECT	
\$50.00		

OTHER CHARGES AND DESCRIPTION

AMOUNT	DESCRIPTION



HAZMAT No

HAZMAT NO:

- STATION NUMBERS**
- ANCHORAGE - (907) 243-2761
 - ANIAK -
 - BETHEL - 907-543-2685
 - COLD BAY - 907-532-2484
 - DEADHORSE -
 - DILLINGHAM - 907-842-5557
 - DUTCH HARBOR - 907-581-2712
 - FAIRBANKS - 907-450-7215
 - HOMER - 907-235-7565
 - KENAI - 907-283-1911
 - KING SALMON - 907-346-3372
 - SAND POINT - 907-383-6000
 - ST MARYS - 907-543-2685
 - ST PAUL - 907-546-2460
 - UNALAKLEET - 907-624-3540
 - VALDEZ - 907-835-2639

SHIPPER'S CERTIFICATION:
 Shipper certifies that (i) the particulars on the face hereof are correct, (ii) insofar as any part of the consignment contains restricted articles, such part is described by name and is in proper condition for carriage by air according to applicable US government regulations and International Air Transport Association's Dangerous Goods Regulation, and (iii) in the event of an payment dispute between Shipper and Consignee, Shipper shall remit any unpaid freight charges within 48 hours of billing by the Carrier.

Signature of Shipper or its agent: _____

Printed Name/Title: _____

Executed on (date) _____ At (place) _____ Signature of Issuing Carrier or its Agent _____