281 N Main St, STE 101
Wasilla, AK 99654
907-373-6130

Alaska Laboratory AK01000
Client SOA - State of Alaska - ADEC
Contact Laura Eldred

Project Name Scandinavian 07/13/2023 Sampling 4
AWL # AWL-23-02042
PWS # Non PWS System

Please direct any questions regarding the final report to Mary@AKWaterLabs.com or 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.

Mary Curry Digitally signed by Mary Curry
Date: 2023.07.17 15:36:46
-08'00'

AWL Laboratory Management Date

Alaska Water Laboratories

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907-373-6130

Alaska Laboratory #AK01000

Client Project Name	Scandinavian 07/13/2023 Sampling 4	AWL #	AWL-23-02042
Receipt Date and Time	07/13/2023 16:12	Due Date	07/30/2023 16:00
Cooler Temperature (C)	7.10C (RT1)	Sampler Initials	MJG
Sample receipt comments	Received by MJG on 7/13/23 at 7.10C (RT1), within 24 hours, on frozen ice.		
Log In	TDH 7/14/23	DQO	BFM 7/14/23

Samples Received

Sample Location	AWL ID	Collection Date/ Time	Analysis Date/ Time	Analysis	Notes
Scandinavian-071323-001	AWL-23-02042-001	7/13/23 11:30	7/13/23 18:41	Fecal Coliform by MF	
Scandinavian-071323-002	AWL-23-02042-002	7/13/23 11:30	7/13/23 18:35	Enterococci by Enzyme Substrate	
Scandinavian-071323-003 DUP	AWL-23-02042-003	7/13/23 11:30	7/13/23 18:41	Fecal Coliform by MF	DUP
Scandinavian-071323-003	AWL-23-02042-004	7/13/23 11:30	7/13/23 18:35	Enterococci by Enzyme Substrate	

Analytical Methods

Analyte	Analytical Method	Comments
Enterococci	ASTM D6503 Enterococci by Enzyme Substrate	None
Fecal Coliform	SM9222D Fecal Coliform by MF	None

Certification: Alaska Drinking Water
CMDP Job ID: n/a

Comments: Samples had less suspended matter, however they were turbid. Fecal Coliform duplicate and Enterococci duplicate recoveries were outside the QAPP goal of +/- 60 % RPD. Microbial samples are subject to significantly results depending on the amount of suspended solids and turbidity present in a sample. Colony count differences in the 10mL plate for fecal parent sample, and 1mL plate for fecal duplicate sample account for difference in final recoveries.

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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 recieved 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 piror to being analyzed. "Dry Weight Corrected" = analyzed as received, result corrected for percent moisture.

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Analytical Results

Client SOA - State of Alaska - ADEC

Project Scandinavian 07/13/2023 Sampling 4

Contact Laura Eldred

PWS # Non PWS System

Project Scandinavian 07/13/2023 Sampling 4

Sample Location: Scandinavian-071323-001

Collection Date/ Time: 7/13/23 11:30

AWL ID/ Fraction: AWL-23-02042-001

Matrix AQ

Batch ID: 071323-02-FC

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Date/Time	Anaylst Initials
Fecal Coliform	10	CFU/ 100mL	100			10	SM9222D Fecal by MF	7/13/23 18:41	MCC
Comments:									

Sample Location: Scandinavian-071323-002

Collection Date/Time: 7/13/23 11:30

AWL ID/ Fraction: AWL-23-02042-002

Matrix AQ

Batch ID: 071323-01-ENT

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Date/Time	Anaylst Initials
Enterococci	2	MPN/ 100mL	1			1	ATSM D6503-99 Enterolert	7/13/23 18:35	BFM
Comments:									

Sample Location: Scandinavian-071323-003 DUP

Collection Date/ Time: 7/13/23 11:30

AWL ID/ Fraction: AWL-23-02042-003

Matrix AQ

Batch ID: 071323-02-FC

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Date/Time	Anaylst Initials
Fecal Coliform	500	CFU/ 100mL	100			100	SM9222D Fecal by MF	7/13/23 18:41	MCC
Comments:									

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Sample Location: Scandinavian-071323-003 Collection Date/Time: 7/13/23 11:30

AWL ID/ Fraction: AWL-23-02042-004 Matrix AQ Batch ID: 071323-01-ENT

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Date/Time	Anaylst Initials
Enterococci	1	MPN/ 100mL	1			1	ATSM D6503-99 Enterolert	7/13/23 18:35	BFM
Comments:	DUP								

AWL Chain of Custody

Custody form MUST be signed
Please provide as much information as possible

Alaska Water Laboratories

Alaska Water Laboratories
907-373-6150

AWL-23- 02042

Client/Company Name & Address:
ADEC - Nonpoint Source Pollution Porgram

Contact Person: Sarah Apsens, Laura Eldred
Phone No:
Fax No:
E-mail:

Public Water System (PWS) ID:

Project Name/ID : SOA Bristol Bay Pathogens - 2023
Scandinavian 07/13/2023 Sampling 4

Turnaround Time (TAT) for Results

___ Standard X Expedited (prior authorization required)
*Specify Requested Due Date if not standard

Requested Date for Results: Email notification within 36 hours

Results to STATE: Yes No

Routine Non-Routine

Specify if REPEAT sample

AWL Staff

Quote Number AWL #

Account #: Check Credit

Invoice Contact Name & Address & Phone:

PO/Contract No.:

Special Instructions/Requirements:
* x VOL container for FC and Entero taken - only used if sample container is broken

Kit Preparation/Shipping Charge:

Requested Analysis/Method

	Client Sample Identification (Name, Designation, Location, etc.)	Date Sampled	Time Sampled	Matrix (DW, WW, SO)	No. of Containers	Cl Residual	Fecal Coliform SM 9222D Preservative Lot#___	Enterococci ASTM Preservative Lot#___	MST - Filter and Freeze Preservative Lot#___	Preservative Lot#___	Preservative Lot#___	Preservative Lot#___	State Pt. Sampling ID	Facility ID	Trigger/ Repeat/ Special
1	Scandinavian-071323-001	7/13/2023	11:30		2		x 1								
2	Scandinavian-071323-002	7/13/2023	11:30		2			x 2							
3	Scandinavian-071323-003 DUP	7/13/2023	11:30		2		x 3	x 3							
4															
5															
6															
7															
8															
9															
10															

Relinquished by:	Date	Time	Received by:	Date	Time
MJG	7-13-23	16:12	MBC	7-13-23	16:12
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Name of Sampler: (printed) Matthew J Grimes

Section To Be Completed by AWL

Custody Seal (circle): Intact Broken Absent

Temperature on arrival: 7.10 °C

Thermo ID IRT

Recv Notes:

Temp TB Cooler

Ice Frozen Wet

Delivery Method (Circle) Courier USPS/Mail Hand

Version 0.1 12/21

page ___ of ___