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

Alaska Laboratory# AK01000

Client	ADEC Nonpoint Source Pollution Program
Contact	Sarah Apsens, Laura Eldred
Project Name	SOA Bristol Bay Pathogens 2022 - Sampling 3
AWL #	AWL-22-02072
PWS #	None

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 has been entered into the AWL Final Report, however the full subcontract report is 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 in full requires the written approval of the laboratory.

Mary Curry Digitally signed by Mary Curry
Date: 2022.06.30 13:57:27
-08'00'

Signature of Laboratory Management Date

Alaska Water Laboratories

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Alaska Laboratory# AK01000

Client Project Name	SOA Bristol Bay Pathogens 2022 - Sampling 3	AWL #	AWL-22-02072
Receipt Date and Time	6/28/2022 17:30	Due Date	6/30/2022
Cooler/Sample Temp (C)	4.34	Sampler Initials	BM

Sample Receipt Comments Sample received by MJG on 6/28/2022 at 4.34C (RT#1), on frozen ice.

Samples Received

Microbiological

Sample Location	AWL ID	Collection Date/ Time	Analysis Date/Time	Analysis	Notes
Scandinavian-062822-001	AWL-22-02072-001	6/28/2022 12:30	6/28/2022 18:29	Fecal Coliform	AWL-00221
Scandinavian-062822-002	AWL-22-02072-002	6/28/2022 12:30	6/28/2022 18:10	Entero	AWL-00266
Scandinavian-062822-004-DUP	AWL-22-02072-004	6/28/2022 12:30	6/28/2022 18:29	Fecal Coliform	AWL-00241
Scandinavian-062822-004-DUP	AWL-22-02072-005	6/28/2022 12:30	6/28/2022 18:20	Entero	AWL-00271

Analytical Methods

Analyte	Method	Comments
Fecal Coliform	SM9222D MF	10mL plates showed moderate to heavy sediment masking. Results may be biased low due to masking. RPD for parent and duplicate is 18.18%, well within the +/- 60% allowance.
Enterococci	ASTM D6503	RPD for parent and duplicate is 102.43%, outside of the +/- 60% control limits. The low count for both plates (<10 mpn/100mL) and difference between the 10mL quantitray results are likely contributors.

Log In Initials: MCC 6-29-22
DQO Initials: JKR 6-29-22

Cert Required AK DW
CMDP #

Comments: MST samples logged under AWL-22-02075 due to extended TAT. MCC 6-29-22 Sampler noted the last sample had significantly higher turbidity due to boat activity when it was taken. The sample was visually more turbid, and the sample container was not used for analysis - one of the additional volume samples taken at the same date and time was logged and used for analysis.

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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 Level
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
N/A	Not Applicable
TNTC	Count is Too Numerous To Count
<MDL	Result recovery is below the detectable laboratory limit, listed as the MDL

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.
U	Result is below the MDL, PQL, LOD, or LOQ
*	LCS/LCSD or Sample DUP fails all Duplicate criteria.
H	Holding time exceeded
E	Exceeds MCL
Q	One or more quality control criteria failed.

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.

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Project	SOA Bristol Bay Pathogens 2022 - Sampling 3	**Collection**	
DW Y/N	N	Date / time	6/28/2022 12:30
PWS#	None		
		AWL Batch ID:	062822-02-FC
AWL #	AWL-22-02072		
Sample Location	Scandinavian-062822-001		
AWL ID/ Fraction	AWL-22-02072-001	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Fecal Coliform	60	CFU/100mL	10			10	SM9222D MF	MJG	6/28/2022 18:29	HSM

Analyst Batching initials/date	MCC 6-30-22
Analyst Reviewer initials/date	AKS 6-30-22

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Client	ADEC Nonpoint Source Pollution Program		
Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogens 2022 - Sampling 3	**Collection**	
DW Y/N	N	Date / time	6/28/2022 12:30
PWS#	None		
		AWL Batch ID:	062822-01-ENT
AWL #	AWL-22-02072		
Sample Location	Scandinavian-062822-002		
AWL ID/ Fraction	AWL-22-02072-002	Matrix	AQ

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Enterococci	6.2	MPN/100mL	1			1	ASTMD-6503-99	MCC	6/28/2022 18:20	

Analyst Batching initials/date	MCC 6-30-22
Analyst Reviewer initials/date	AKS 6-30-22

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Client	ADEC Nonpoint Source Pollution Program		
Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogens 2022 - Sampling 3	**Collection**	
DW Y/N	N	Date / time	6/28/2022 12:30
PWS#	None		
		AWL Batch ID:	062822-02-FC
AWL #	AWL-22-02072		
Sample Location	Scandinavian-062822-004-DUP		
AWL ID/ Fraction	AWL-22-02072-004	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Fecal Coliform	50	CFU/100mL	10			10	SM9222D MF	MJG	6/28/2022 18:29	HSM

Analyst Batching initials/date MCC 6-30-22

Analyst Reviewer initials/date AKS 6-30-22

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Client	ADEC Nonpoint Source Pollution Program		
Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogens 2022 - Sampling 3	**Collection**	
DW Y/N	N	Date / time	6/28/2022 12:30
PWS#	None		
		AWL Batch ID:	062822-01-ENT
AWL #	AWL-22-02072		
Sample Location	Scandinavian-062822-004-DUP		
AWL ID/ Fraction	AWL-22-02072-005	Matrix	AQ

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Enterococci	2	MPN/100mL	1			1	ASTMD-6503-99	MCC	6/28/2022 18:20	

Analyst Batching initials/date MCC 6-30-22

Analyst Reviewer initials/date AKS 6-30-22

AWL Chain of Custody

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

Alaska Water Laboratories

Alaska Water Laboratories

AWL-22- 02072
907-373-6130

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

Public Water System (PWS) ID:

Project Name/ID : SOA Bristol Bay Pathogens - 2022
Scandinavian 6/28/2022 - Sampling 3 2022

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.:

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

Special Instructions/Requirements:
* x VOL container for FC and Entero taken - only used if sample container is broken
MST logged under AWL-22-02015.

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-062822-001	6/28/2022	1230		2		x								
2	Scandinavian-062822-002	6/28/2022	1230		2			x							
3	Scandinavian-062822-003	6/28/2022	1230		2				x						
4	Scandinavian-062822-004-DUP	6/28/2022	1230		2		x	x							
5															
6															
7															
8															
9															
10															

Relinquished by:	Date	Time	Received by:	Date	Time
Ben Matlock	6-28-22	1730	MSC	6-28-22	17:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Name of Sampler: (printed) Ben Matlock

Section To Be Completed by AWL

Custody Seal (circle): Intact Broken Absent

Temperature on arrival: 4.34 °C

Thermo ID IRT

Recv Notes:

Temp TB Cooler

Ice Frozen Wet

Delivery Method (Circle) Courier USPS/Mail Hand

Version 0.1 12/21

Alaska Water Laboratories

Bristol Bay Pathogen Testing Program
Sanitary Survey

SITE

Name of Beach	Scandinavian		
Beach Code	Scand	**Date of sampling**	6/28/22
Latitude N	59°02.196	**Longitude**	158°28.499

SAMPLES

Sample ID (FC)	Scand-062822-001	Collected Date/Time	6-28-22 / 1230
Sample ID (Entero)	Scand-062822-002	Collected Date/Time	6-28-22 / 1230
Sample ID (MST)	Scand-062822-003	Collected Date/Time	6-28-22 / 1230
Replicate ID	Scand-062822-004 Dup	Collected Date/Time	6-28-22 / 1230
Field Blank ID		Collected Date/Time	

CONDITIONS

Weather Conditions	**Air Temp** 15.4 C	**Water Conditions**
Sunny and Clear	**Wind Direction** SE	Clear
(Cloudy/Overcast)	**Wind Speed (MPH)** 3-4	(Cloudy/Murky)
Rain	**Precipitation in last 24 hrs.** 0 in	Oily Film
Fog	Notes: Little to no breeze	Other: 6" visibility in water few fish chunks in water.

Potential Pollution Sources

Activity on Beach	Adults: 0 Children: 0 Dogs: 0 Other: 0
Water Fowl Only a Couple Seagulls in site at sample location.	Type Seagulls Estimated Number 7 Other Sources: Oily Residue on beach sand streaming towards water. Boat went by when collecting last sample, sample dirtier than others. lots of beer/soda cans on beach.

Beach and Tidal Conditions

Beach Condition: Strong fish smell from process plant
On Shore Debris? Beer/Soda cans/trash In Water Debris? Some fish parts
On Shore Vegetation (Est %) 20% In Water Vegetation (%) 1%
Odors: (Y) / N Stormwater Pipes: Y / (N) Fish Processing: (Y) / N

Tidal Conditions: (Low) / High (Flooding) / Ebbing
Tide Height: _____ ft/m
Time of observation: 1230 am/(pm)

Probe and Onsite Values

Water Temperature: 13.6 (C)/F Air Temperature: 15.4 (C)/F
pH: 8.6
Turbidity (Visible): about 6" into water

OTHER COMMENTS OR OBSERVATIONS OF SITE:
Less fish chunks in water compared to snag point. 1 boat went by which stirred up the water when collecting last sample. Water sample was dirtier than rest. 3 boats visable from sample location.

Signature of Surveyor: Ben Mac **Date/Time** 6-28-22 1520