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 Pathogen Sampling 5 2022
AWL #	AWL-22-02146
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: 2022.07.08 14:55:40 -08'00'

Signature of Laboratory Management Date

Alaska Water Laboratories

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Alaska Laboratory# AK01000

Client Project Name	SOA Bristol Bay Pathogen Sampling 5 2022	AWL #	AWL-22-02146
Receipt Date and Time	7/6/2022 17:54	Due Date	7/8/2022
Cooler/Sample Temp (C)	3.39	Sampler Initials	BM

Sample Receipt Comments Samples received by MJG on 7/6/2022 at 3.39C (RT#1), on frozen ice.

Samples Received

Microbiological

Sample Location	AWL ID	Collection Date/ Time	Analysis Date/Time	Analysis	Notes
Snag Point-070622-001	AWL-22-02146-001	7/6/2022 12:15	7/6/2022 18:35	Fecal Coliform	
Snag Point-070622-002	AWL-22-02146-002	7/6/2022 12:15	7/6/2022 18:45	Entero	
Snag Point-070622-003-DUP	AWL-22-02146-003	7/6/2022 12:15	7/6/2022 18:35	Fecal Coliform	
Snag Point-070622-003-DUP	AWL-22-02146-004	7/6/2022 12:15	7/6/2022 18:45	Entero	

Analytical Methods

Analyte	Method	Comments
Fecal Coliform	SM9222D MF	Plates with 1mL and 10mL dilutions both had sediment masking that may bias fecal coliform colony counts low. RPD for Fecal Coliform is 31.59%, within the +/-60% control limit for duplicate recovery.
Enterococci	ASTM D6503	RPD for Enterococci counts is 100% recovery - well within the +/-60% control limits.

Log In Initials: MCC 7-7-22
DQO Initials: JKR 7-7-22

Cert Required AK DW
CMDP #

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 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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Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogen Sampling 5 2022	**Collection**	
DW Y/N	N	Date / time	7/6/2022 12:15
PWS#	None		
		AWL Batch ID:	070622-03-FC
AWL #	AWL-22-02146		
Sample Location	Snag Point-070622-001		
AWL ID/ Fraction	AWL-22-02146-001	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Fecal Coliform	36.36	CFU/100mL	9.09			9.09	SM9222D MF	MCC	7/6/2022 18:35	HSM

Analyst Batching initials/date MCC 7-8-22
Analyst Reviewer initials/date AKS 7-8-22

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Client	ADEC Nonpoint Source Pollution Program		
Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogen Sampling 5 2022	**Collection**	
DW Y/N	N	Date / time	7/6/2022 12:15
PWS#	None		
		AWL Batch ID:	070622-01 EnteroQT
AWL #	AWL-22-02146		
Sample Location	Snag Point-070622-002		
AWL ID/ Fraction	AWL-22-02146-002	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Enterococci	2	MPN/100mL	1		#####	1	ASTMD-6503-99	MJG	7/6/2022 18:45	

Analyst Batching initials/date MJG 7-8-22

Analyst Reviewer initials/date AKS 7-8-22

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Client	ADEC Nonpoint Source Pollution Program		
Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogen Sampling 5 2022	**Collection**	
DW Y/N	N	Date / time	7/6/2022 12:15
PWS#	None		
		AWL Batch ID:	070622-03-FC
AWL #	AWL-22-02146		
Sample Location	Snag Point-070622-003-DUP		
AWL ID/ Fraction	AWL-22-02146-003	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Fecal Coliform	50	CFU/100mL	10			10	SM9222D MF	MCC	7/6/2022 18:35	HSM

Analyst Batching initials/date	MCC 7-8-22
Analyst Reviewer initials/date	AKS 7-8-22

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Client	ADEC Nonpoint Source Pollution Program		
Contact	Sarah Apsens, Laura Eldred		
Project	SOA Bristol Bay Pathogen Sampling 5 2022	**Collection**	
DW Y/N	N	Date / time	7/6/2022 12:15
PWS#	None		
		AWL Batch ID:	070622-01 EnteroQT
AWL #	AWL-22-02146		
Sample Location	Snag Point-070622-003-DUP		
AWL ID/ Fraction	AWL-22-02146-004	Matrix	AQ

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Enterococci	2	MPN/100mL	1		#####	1	ASTMD-6503-99	MJG	7/6/2022 18:45	

Analyst Batching initials/date MJG 7-8-22

Analyst Reviewer initials/date

AWL Chain of Custody

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

Alaska Water Laboratories

Alaska Water Laboratories

AWL-22- 02146

907-375-0150

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 - 2022
Snag Point 7/6/2022 - Sampling 5 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.:

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	Snag Point-070622-001	7/6/2022	1215		2		x								
2	Snag Point-070622-002	7/6/2022	1215		2			x							
3	Snag Point-070622-003-DUP	7/6/2022	1215		2		x	x							
4						003		004							
5															
6															
7															
8															
9															
10															

Relinquished by:	Date	Time	Received by:	Date	Time
Ben Matlock	7-6-22	1754	MDL	7-6-22	17:54
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: 3.59C °C

Thermo ID IRT

Recv Notes:

Temp TB Cooler

Ice Frozen Wet

Delivery Method (Circle) Courier USPS/Mail Hand

page ___ of ___

Version 0.1 12/21

Alaska Water Laboratories

Bristol Bay Pathogen Testing Program
Sanitary Survey

SITE

Name of Beach	Snag Point		
Beach Code	Snag	**Date of sampling**	7-6-22
Latitude N	59°00.211	**Longitude**	158° 32.036

SAMPLES

Sample ID (FC)	Snag070622-001	Collected Date/Time	7-6-22
Sample ID (Entero)	Snag 070622-002	Collected Date/Time	7-6-22
Sample ID (MST)	s	Collected Date/Time	
Replicate ID	Snag070622-003 Dup	Collected Date/Time	7-6-22
Field Blank ID		Collected Date/Time	

CONDITIONS

Weather Conditions	**Air Temp** 14.1 C	**Water Conditions**
Sunny and Clear	**Wind Direction** SE	Clear
(Cloudy/Overcast)	**Wind Speed (MPH)** 5.7	(Cloudy/Murky)
(Rain)	**Precipitation in last 24 hrs.** 0.08 in	Oily Film
Fog	Notes: Cloudy & Raining constantly	Other:

Potential Pollution Sources

Activity on Beach	Adults: 0 Children: 0 Dogs: 0 Other:
Water Fowl Seagulls - only saw 3 fly over head while at sample location.	Type Seagulls Estimated Number 3 Other Sources: Set nets, Bouys, Ropes, active boat launch

Beach and Tidal Conditions

Beach Condition: On Shore Debris? Set nets & Rope In Water Debris? Set nets / Rope / Bouys
On Shore Vegetation (Est %) 0 In Water Vegetation (%) 0
Odors: (Y) / N Stormwater Pipes: Y / (N) Fish Processing: (Y) / N

Tidal Conditions: Low / (High) Flooding / (Ebbing)
Tide was about mid-Tide.
Tide Height: _____ ft/m
Time of observation: 1215 am/(pm)

Probe and Onsite Values

Water Temperature: 15.3 (C)/F Air Temperature: 14.1 (C)/F
pH: 7.9
Turbidity (Visible): 4" into water

OTHER COMMENTS OR OBSERVATIONS OF SITE:
Air Temperature could have been affected by rain, but water did feel warmer than air. Fish smell was very heavy. Did not notice any fish chunks in the water, probably due to the tide flowing out instead of in. I was able to just step off boat launch into 3' deep water.

Signature of Surveyor: [signature] **Date/Time** 7-6-22 / 1540