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

**Alaska Laboratory# AK01000**

| | |
|---|---|
| **Client** | SOA ADEC Nonpoint Source Pollution Program |
| **Contact** | Sarah Apsens, Laura Eldred |
| | |
| **Project Name** | SOA Bristol Bay Pathogens 2023 Snag Point 05/24/2023 Sampling 1 |
| **AWL #** | AWL-23-01508 |
| **PWS #** | Non PWS Samples |

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: 2023.05.26 15:25:44 -08'00'

Signature of Laboratory Management Date

Alaska Water Laboratories

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**Alaska Laboratory# AK01000**

| | | | |
|---|---|---|---|
| Client Project Name | SOA Bristol Bay Pathogens 2023 Snag Point 05/24/2023 Sampling 1 | AWL # | AWL-23-01508 |
| Receipt Date and Time | 5/24/2023 19:56 | Due Date | 5/26/2023 |
| Cooler/Sample Temp (C) | 5.86 | Sampler Initials | MJG |
| Sample Receipt Comments | Samples received by MJG on 5/24/2023 at 5.86C (RT#1), on frozen ice. | | |

**Samples Received**

**Microbiological**

| Sample Location | AWL ID | Collection Date/ Time | Analysis Date/Time | Analysis | Notes |
|---|---|---|---|---|---|
| Snag Point-052423-001 | AWL-23-01508-001 | 5/24/2023 13:45 | 5/24/2023 21:42 | Fecal Coliform | River Sample |
| Snag Point-052423-002 | AWL-23-01508-002 | 5/24/2023 13:45 | 5/24/2023 21:05 | Entero | River Sample |

**Analytical Methods**

| Analyte | Method | Comments |
|---|---|---|
| Fecal Coliform | SM9222D MF | All Samples HSM for 1mL, 10mL.- BFM 5/25/23 |
| Enterococci | ASTM D6503 | |

| | |
|---|---|
| Log In Initials: | MCC 5-26-23 |
| DQO Initials: | BFM 5/26/23 |

**Cert Required CMDP #** AK DW

Comments: Conductivity (Field): 163.00 uSm; Salinity (Calc) 0.08 PSU

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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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|---|---|---|---|
| Client | SOA ADEC Nonpoint Source Pollution Program | | |
| Contact | Sarah Apsens, Laura Eldred | | |
| Project | SOA Bristol Bay Pathogens 2023 Snag Point 05/24/2023 Sampling 1 | **Collection** | |
| DW Y/N | N | Date / time | 5/24/2023 13:45 |
| PWS# | Non PWS Samples | | |
| | | AWL Batch ID: | 052423-01-FC |
| AWL # | AWL-23-01508 | | |
| Sample Location | Snag Point-052423-001 | | |
| AWL ID/ Fraction | AWL-23-01508-001 | Matrix AQ | |

| Analyte | Result | Units | MDL | MCL | Flags | DF | Method | Analyst | Date/Time | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Fecal Coliform | 30 | CFU/100mL | 10 | | | 10 | SM9222D MF | BFM | 5/24/2023 21:42 | HSM |

| | |
|---|---|
| Analyst Batching initials/date | BFM 5/26/23 |
| Analyst Reviewer initials/date | AKS 5-26-23 |

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| | | | |
|---|---|---|---|
| Client | SOA ADEC Nonpoint Source Pollution Program | | |
| Contact | Sarah Apsens, Laura Eldred | | |
| Project | SOA Bristol Bay Pathogens 2023 Snag Point 05/24/2023 Sampling 1 | **Collection** | |
| DW Y/N | N | Date / time | 5/24/2023 13:45 |
| PWS# | Non PWS Samples | | |
| | | AWL Batch ID: | 052423-01-ENT |
| AWL # | AWL-23-01508 | | |
| Sample Location | Snag Point-052423-002 | | |
| AWL ID/ Fraction | AWL-23-01508-002 | Matrix AQ | |

| Analyte | Result | Units | MDL | MCL | Flags | DF | Method | Analyst | Date/Time | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Enterococci | 1 | MPN/100mL | 1 | | | 1 | ASTMD-6503-99 | BFM | 5/24/2023 21:05 | |

Analyst Batching initials/date BFM 5/26/23
Analyst Reviewer initials/date AKS 5-26-23

# AWL Chain of Custody

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

Alaska Water Laboratories

Alaska Water Laboratories

**AWL-23- 01508**

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

**Public Water System (PWS) ID:**

**Project Name/ID : SOA Bristol Bay Pathogens - 2023**
**Snag Point 5/24/2023 - Sampling 1**

**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**

**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# 287-3447 | Enterococci ASTM Preservative Lot# 406-3-395 | MST - Filter and Freeze Preservative Lot#___ | Salinity Preservative Lot#___ | Preservative Lot#___ | Preservative Lot#___ | State Pt. Sampling ID | Facility ID | Trigger/ Repeat/ Special |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Snag Point-052423-001 | 5/24/2023 | 13:45 | | 2 | | x | | | | | | | | |
| 2 | Snag Point-052423-002 | 5/24/2023 | 13:45 | | 2 | | | x | | | | | | | |
| 3 | Snag point | 5-24-23 | 13:45 | | | | | | | X | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| MSL | 5-24-23 | 7:56pm | MSL | 5-24-23 | 7:56pm |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |

**Name of Sampler: (printed)**

**Section To Be Completed by AWL**

**Custody Seal (circle):** Intact Broken Absent

**Temperature on arrival:** 5.86 °C

**Thermo ID** IRT

**Recv Notes:** Conductivity 161.5

**Temp** TB Cooler

**Ice** Frozen Wet

**Delivery Method (Circle)** Courier USPS/Mail Hand

Version 0.1 12/21

page ___ of ___

Alaska Water Laboratories

**Bristol Bay Pathogen Testing Program**
**Sanitary Survey**

**SITE**

| | | | |
|---|---|---|---|
| **Name of Beach** | Snag Point | | |
| **Beach Code** | Snag | **Date of sampling** | 5-24-23 |
| **Latitude N** | | **Longitude** | |

**SAMPLES**

| | | | |
|---|---|---|---|
| Sample ID (FC) | | Collected Date/Time | 13:45 |
| Sample ID (Entero) | | Collected Date/Time | 13:45 |
| Sample ID (MST) | | Collected Date/Time | |
| Replicate ID | | Collected Date/Time | |
| Field Blank ID | | Collected Date/Time | |

**CONDITIONS**

| **Weather Conditions** | **Air Temp** 11.1 C | **Water Conditions** |
|---|---|---|
| Sunny and Clear | **Wind Direction** | Clear |
| Cloudy/Overcast | **Wind Speed (MPH)** | Cloudy/Murky |
| Rain | **Precipitation in last 24 hrs.** ___ in | Oily Film |
| Fog | Notes: | Other: |

**Potential Pollution Sources**

| **Activity on Beach** | Adults: 0 Children: 0 Dogs: 0 Other: 0 |
|---|---|
| **Water Fowl** | Type 0 Estimated Number ___ |
| | Other Sources: Deep Silt mud - almost impassable |

**Beach and Tidal Conditions**

**Beach Condition:** On Shore Debris? no In Water Debris? no
On Shore Vegetation (Est %) ___ In Water Vegetation (%) 0
Odors: Y / N Stormwater Pipes: Y / N Fish Processing: Y / N

**Tidal Conditions:** Low / High Flooding / Ebbing
Tide Height: ___ ft/m
Time of observation: ___ am/pm

**Probe and Onsite Values**

Water Temperature: 7.1 C/ F Air Temperature: ___ C/F
pH: ___
Turbidity (Visible): < .5 inches of visability into the water

**OTHER COMMENTS OR OBSERVATIONS OF SITE:**
Several day of rain mixed w/ snow melt has produced some very deep silt mud. Walking in the area is very dangerous. Not possible to enter the river more than a few feet off the shore without getting stuck.

**Signature of Surveyor:** [signature] **Date/Time** 5-24-23 13:50

Alaska Water Laboratories

**Bristol Bay Pathogen Testing Program**
**Sanitary Survey**
**SITE**

| | | | |
|---|---|---|---|
| **Name of Beach** | Snag Point | | |
| **Beach Code** | Snag | **Date of sampling** | 5-24-23 |
| **Latitude N** | 59° 02.274 | **Longitude** | 158° 27.667 |

**SAMPLES**

| | | | |
|---|---|---|---|
| Sample ID (FC) | 415 & 397 | Collected Date/Time | 13:45 |
| Sample ID (Entero) | 408 & 398 | Collected Date/Time | 13:45 |
| Sample ID (MST) | | Collected Date/Time | 13:45 |
| Replicate ID | | Collected Date/Time | 13:45 |
| Field Blank ID | | Collected Date/Time | |

**CONDITIONS**

| **Weather Conditions** | **Air Temp** _____ C | **Water Conditions** |
|---|---|---|
| Sunny and Clear | **Wind Direction** _____ | Clear |
| Cloudy/Overcast | **Wind Speed (MPH)** _____ | Cloudy/Murky |
| Rain | **Precipitation in last 24 hrs.** ____ in | Oily Film |
| Fog | Notes: | Other: |

**Potential Pollution Sources**

| | |
|---|---|
| **Activity on Beach** | Adults: Ø Children: Ø Dogs: Ø Other: Ø |
| **Water Fowl** | Type_____ Estimated Number_____<br>Other Sources:<br>no animals of any kind present |

**Beach and Tidal Conditions**

**Beach Condition:** On Shore Debris? none In Water Debris? none
On Shore Vegetation (Est %)_____ In Water Vegetation (%) not visible
Odors: Y / N Stormwater Pipes: Y / N Fish Processing: Y / N

**Tidal Conditions:** Low / High Flooding / Ebbing
Tide Height: _____ft/m
Time of observation: _____ am/pm

**Probe and Onsite Values**

Water Temperature: 6.76 C/F Air Temperature: 10.76 C/F
pH: 6-7
Turbidity (Visible): <.5 inch of visibility

**OTHER COMMENTS OR OBSERVATIONS OF SITE:**
Site has silt mud that is very deep, lots of snow run off from the Seawall
no signs of use by people of animals, this area was still blocked off
via snowbanks on the road, foot access only at the time.

**Signature of Surveyor:** [signature] **Date/Time** 5-24-23