



Admiralty
ENVIRONMENTAL

641 W. Willoughby Ave., Suite 301 Juneau, AK 99801 (907) 463-4415

Andres Delgado
1873 Shell Simmons Dr.
Suite 200
Juneau, AK 99801

March 29, 2024

JNU International Airport Stormwater Sampling

Date of Collection: March 18, 2024
Sampling Location: Juneau, Alaska

Summary

Five samples from the Juneau International Airport were received at Admiralty Environmental, Juneau, AK on March 18, 2024.

The samples were analyzed for biochemical oxygen demand, chemical oxygen demand, ammonia, and pH. The parameter of pH was received past holding time. All other laboratory acceptance criteria were met for all samples.

A complete report of the final lab results is enclosed. The official laboratory report follows this letter, and includes the analytical results, case narrative, chain of custody form, and cooler receipt form.

Kind Regards,

Diana Cote
Admiralty Environmental



641 W. Willoughby Ave., Suite 301 Juneau, AK 99801 (907) 463 - 4415
www.admiraltyenvironmental.com

Juneau International Airport

Permit AKR06AD42 Compliance

March 18, 2024

Juneau, AK

Analytical Report

Admiralty Environmental EPA ID AK 00976

AE 34502

Sample Location	Site #6	Site #9	Site #11	Site #16	Site #3
Date & Time Sampled	03/18/2024; 09:42	03/18/2024; 09:55	03/18/2024; 10:20	03/18/2024; 10:33	03/18/2024; 10:45
BOD (mg/L)	<2.1	<2.0	<2.0	78	3.4
COD (mg/L)	<22	35	<22	130	29
Ammonia (mg/L)	<0.5	<0.5	<0.5	<0.5	<0.5
pH (S.U.)	7.64	7.09	6.93	7.10	7.00

Quality Control:

Analysis	MB	LCS	LCS Duplicate	RPD	Date/Time Commenced	Holding time met
BOD	<2.0	107.6%	109.6%	1.8	03/18/2024; 11:30	Yes
COD	<4.0	104.0%	102.0%	1.9	03/19/2024; 12:36	Yes
COD*	<4.0	96.0%	92.0%	4.3	03/25/2024; 14:30	Yes
NH3	<0.5	95.2%	94.6%	0.6	03/19/2024; 15:53	Yes
pH	---	---	---	---	03/18/2024; 11:49	No

Case Narrative:

The parameter of pH was received past holding time and analyzed upon laboratory receipt. COD* denotes the LCS recoveries for site #6 analyzed on a separate run. All other sample analysis QA/QC parameters were met for this event.

Analysis Description:

Analysis	Method	MDL	PQL	Unit
BOD	EPA 405.1	2.0	2.1	mg/L
COD	SM 5220D	6.8	22	mg/L
NH3	Hach 10205	0.10	0.5	mg/L
pH	EPA 150.1	0.10	0.1	pH units

Key:

BOD	Biochemical Oxygen Demand	ND	Not Detected
COD	Chemical Oxygen Demand	PQL	Practical Quantitation Limit
LCS	Laboratory Control Standard	RPD	Relative Percent Difference
MB	Method Blank	NH3	Ammonia as N
MDL	Method Detection Limit	mg/L	Milligrams Per Liter

David Wetzel
CTO, Admiralty Environmental
dwetzel@admiraltyenv.com



Admiralty Environmental
 641 W. Willoughby Ave., Suite 301
 Juneau, AK 99801
 (907) 463-4415

CHAIN OF CUSTODY/TRANSMITTAL RECORD
 PAGE 1 OF 1

CLIENT: Juneau International Airport				Stormwater Sampling MSGP ADEC Compliance										AE 34502																													
REPORT TO: Andres Delgado				PHONE#: 907-586-0962 (Pam)				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"># OF BOTTLES</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">pH, BOD</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">COD, Ammonia</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										# OF BOTTLES	pH, BOD	COD, Ammonia																							
# OF BOTTLES	pH, BOD	COD, Ammonia																																									
ADDRESS: 1873 Shell Simmons Drive Suite 200, Juneau AK 99801 Juneau, AK 99801				SAMPLED BY: <i>ANDRES DELGADO</i>																																							
EMAIL: pam.chapin@jnuairport.com, andres.delgado@jnuairport.com																																											
BILL TO: pam.chapin@jnuairport.com, andres.delgado@jnuairport.com																																											
DATE	TIME	SITE DESCRIPTION /IDENTIFIER	MATRIX	# OF BOTTLES	pH, BOD	COD, Ammonia																																					
3/18	0942	6 - TERMINAL AREA DISCHARGE	H ₂ O	2	1 1																																						
3/18	0955	9 - NEDA OUTLET	H ₂ O	2	1 1																																						
3/18	1007	10 - TUN 6 CULVERT - DRY	H ₂ O	2	1 1																																						
3/18	1020	11 - JORDAN CREEK CULVERT OUTLET	H ₂ O	2	1 1																																						
3/18	1033	16 - POND DISCHARGE TO RIVER	H ₂ O	2	1 1																																						
3/18	1045	3 - UPPER ACK CREEK - 2	H ₂ O	2	1 1																																						
RELINQUISHED BY:				RECEIVED BY:				RELINQUISHED BY:				RECEIVED BY:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Section to Be Completed by Receiving Laboratory</th> </tr> <tr> <td>Temp °C:</td> <td>1.63</td> <td></td><td></td> </tr> <tr> <td>Thermo ID#:</td> <td>603#7B</td> <td></td><td></td> </tr> <tr> <td>Condition of Custody Seals:</td> <td>✓</td> <td></td><td></td> </tr> <tr> <td>Initialed By:</td> <td>KA</td> <td></td><td></td> </tr> <tr> <td>Shipped Via:</td> <td>✓</td> <td></td><td></td> </tr> </table>				Section to Be Completed by Receiving Laboratory				Temp °C:	1.63			Thermo ID#:	603#7B			Condition of Custody Seals:	✓			Initialed By:	KA			Shipped Via:	✓		
Section to Be Completed by Receiving Laboratory																																											
Temp °C:	1.63																																										
Thermo ID#:	603#7B																																										
Condition of Custody Seals:	✓																																										
Initialed By:	KA																																										
Shipped Via:	✓																																										
Signature				Signature				Signature				Signature																															
<i>Andres Delgado</i>				<i>Kyle Hopkins</i>																																							
Printed Name				Printed Name				Printed Name				Printed Name																															
Date				Date				Date				Date																															
3/18/2024				3/18/2024																																							
Time				Time				Time				Time																															
1100				1115																																							



Admiralty Environmental Cooler Receipt Form

Lab: Admiralty Environmental, LLC
Client: CBJ Juneau International Airport

AE 34502

Date Opened: 3/18/2024 Opened by: K. Hopkins

A. External Cooler Conditions

• Local Sampling Event

1. Project ID: SWPPP

2. COC Attached? **yes** Properly Completed? **yes** Signed by AE employee? **yes**

Small Temp. Blank **1.63** (temp in Celsius)
Large Temp. Blank: **n/a** (temp in Celsius)

• Air-Transported Sampling Event

1. Project ID: n/a

2. COC Attached? **n/a** Properly Completed? **n/a** Signed by AE employee? **n/a**

3. Airbill attached? **n/a** Airbill #: **n/a**

4. Custody Seals? **n/a**

5. Seals intact? **n/a**

Temp. Blank: **n/a** (temp in Celsius)

COMMENTS:

B. Sample Conditions

Number of Samples Received: **5** Packing type: **cooler**

Number of Bottles Received: **10**

1. Samples in proper bags? **yes**

2. Bottles intact? **yes**

3. Sufficient sample volume? **yes**

4. Labels agree with COC? **yes**

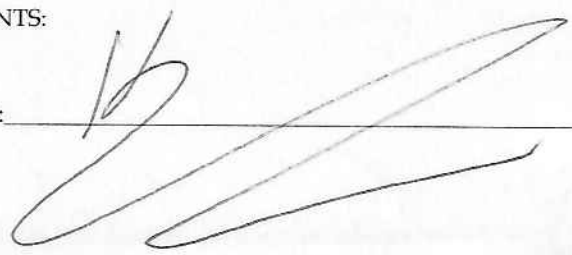
5. Samples delivered within holding time? **yes**

6. Sample preservation checked? **yes; pH <2.0**

Problems encountered: **no**

Was the project manager called? **no**

COMMENTS:

Signature: 

Date and time: **3/18/24, 1115**