



**Admiralty**  
ENVIRONMENTAL

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

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Paul Lingley III  
1873 Shell Simmons Dr.  
Suite 200  
Juneau, AK 99801

December 4, 2020

**JNU International Airport Stormwater Sampling**

Date of Collection: November 24, 2020  
Sampling Location: Juneau, Alaska

**Summary**

Six samples from the Juneau International Airport were received at Admiralty Environmental, Juneau, AK on November 24, 2020.

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



## Juneau International Airport

Permit AKR06AD42 Compliance

November 24, 2020

Juneau, AK

## Analytical Report

Admiralty Environmental EPA ID AK 00976

AE 25811

Sample Location	Site #3	Site #16	Site #11	Site #10	Site #9	Site #6
Date & Time Sampled	11/24/2020; 11:36	11/24/2020; 11:43	11/24/2020; 11:53	11/24/2020; 12:20	11/24/2020; 12:24	11/24/2020; 12:30
BOD (mg/L)	<4.0	350	<4.0	15	5.7	6.7
COD (mg/L)	20	570	43	32	20	18
Ammonia (mg/L)	0.56	<0.5	<0.5	<0.5	<0.5	<0.5
pH (S.U.)	6.98	7.24	6.81	7.66	7.31	7.51

### Quality Control:

Analysis	MB	LCS	LCS Duplicate	RPD	Date/Time Commenced	Holding time met
BOD	<2.0	109.1%	109.6%	0.5	11/25/2020; 09:00	Yes
COD	<4.0	101.6%	101.6%	0.0	11/30/2020; 11:20	Yes
NH3	<0.5	103.0%	102.0%	1.0	11/30/2020; 11:45	Yes
pH	---	---	---	---	11/24/2020; 13:40	No

### Case Narrative:

The parameter of pH was received past holding time and analyzed upon laboratory receipt. 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	2.0	mg/L
COD	SM 5220D	4.0	15	mg/L
NH3	Hach 10205	0.10	0.5	mg/L
pH	EPA 150.1	0.10	0.1	pH units

### Key:

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

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**CHAIN OF CUSTODY/TRANSMITTAL RECORD**  
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<b>CLIENT:</b> Juneau International Airport		<b>Stormwater Sampling MSGP ADEC Compliance</b>				AE 25811
<b>REPORT TO:</b> Paul Lingley III	<b>PHONE#:</b> 907-209-0555	# OF BOTTLES	PH, BOD	COD	Ammonia	
<b>ADDRESS:</b> 1873 Shell Simmons Drive, Suite 200, Juneau AK 99801	<b>SAMPLED BY:</b> <i>Paul Lingley III</i>					
<b>EMAIL:</b> paul.lingleyiii@jnuairport.com						
<b>Bill to:</b> paul.lingleyiii@jnuairport.com						

				FIELD RESULTS							
DATE	TIME	SITE DESCRIPTION / IDENTIFIER	MATRIX	# OF BOTTLES	PH, BOD	COD	Ammonia	pH	Temp		
11-24	11:36	Upper Duck Creek - 2 / #3	H <sub>2</sub> O	3	1	1	1				
11-24	11:43	Pond Discharge / #16	H <sub>2</sub> O	3	1	1	1				
11-24	11:53	Jordan Ch culvert outlet / 11	H <sub>2</sub> O	2	1	1	1				
11-24	12:20	Taxiway 6 culvert / 10	H <sub>2</sub> O	3	1	1	1				
11-24	12:24	NE Dev area outlet / 9	H <sub>2</sub> O	3	1	1	1				
11-24	12:30	Terminal area Discharge / 6	H <sub>2</sub> O	3	1	1	1				
			<del>H<sub>2</sub>O</del>	<del>2</del>	<del>1</del>	<del>1</del>	<del>1</del>				
			<del>H<sub>2</sub>O</del>	<del>2</del>	<del>1</del>	<del>1</del>	<del>1</del>				

<b>RELINQUISHED BY:</b>		<b>RECEIVED BY:</b>		<b>Section to Be Completed by Receiving Laboratory</b>			
Signature <i>Paul Lingley III</i>	Signature <i>Hope O'Neill</i>	Signature	Signature	Temp/Loc:	4.33		
Printed Name Paul Lingley III	Printed Name Hope O'Neill	Printed Name	Printed Name	Thermo ID#:	Lab #7		
Date 11-24-20	Date 11/24/20	Date	Date	Condition of Custody Seals:	✓		
Time 12:55	Time 12:55	Time	Time	Initialed By:	HO		
				Shipped Via:			

\* only 2 bottles received. OK - sufficient volume in BOD bottle to analyze / aliquot into new COD bottle.



# Admiralty Environmental Cooler Receipt Form

Client: **Admiralty Environmental, LLC**  
Project: **Juneau International Airport**

AE# AE 25811

Date Opened: **11/24/2020** Opened by: **H. O'Neill**

## A. External Cooler Conditions

### • Local Sampling Event

1. Project ID: **Stormwater**

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

Small Temp. Blank **4.33** (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: **6** Packing type: **cooler**

Number of Bottles Received: **17**

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? **no yes, except pH**

6. Sample preservation checked? **yes, COD/NH3 bottles pH <2**

Problems encountered: **no**

Was the project manager called? **no**

COMMENTS:

Signature: 

Date and time: **11/24/20; 1255**