

**Permit**

**Permit ID:** AK0023213  
**Permittee:** JUNEAU, CITY AND BOROUGH OF  
**Facility:** JUNEAU, CITY AND BOROUGH OF

**Major:**   
**Permittee Address:** 5433 SHAUNE DRIVE  
 JUNEAU , AK99801  
**Facility Location:** 1540 THANE ROAD  
 JUNEAU-DOUGLAS WWTP  
 JUNEAU , AK99801  
**Discharge:** 001-A - (no description)

**Permitted Feature:** 001 - External Outfall  
**Report Dates & Status**  
**Monitoring Period:** From 01/01/19 to 01/31/19  
**Status:** NetDMR Validated

**DMR Due Date:** 02/15/19

**Considerations for Form Completion**  
 W=WEEKLY AVERAGE

**Principal Executive Officer**

**First Name:** Randall  
**Title:** Supervisor

**Last Name:** Brown  
**Telephone:** 907-586-0393

**No Data Indicator (NODI)**  
**Form NODI:** -

Parameter		NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3			

Parameter Code	Name	NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type
			Value 1	Value 2	Units	Value 1	Value 2	Value 3			
00010	Temperature, water deg. centigrade	Smpl.					=10.1	04 - deg C	0	05/WK - Five Per Week	GR - GRAB
1 - Effluent Gross											
Season: 0		Req.					Req Mon DAILY MX	04 - deg C		05/WK - Five Per Week	GR - GRAB
NODI: -		NODI									
00300	Oxygen, dissolved [DO]	Smpl.			=4.9		=7.9	19 - mg/L	0	05/WK - Five Per Week	GR - GRAB
1 - Effluent Gross											
Season: 0		Req.			>=2 DAILY MN		<=17 DAILY MX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
NODI: -		NODI									
00310	BOD, 5-day, 20 deg. C	Smpl.	=29	=96	26 - lb/d	=4.9	=7.9	19 - mg/L	0	01/30 - Monthly	24 - COMP24
1 - Effluent Gross											
Season: 0		Req.	<=690 MO AVG	<=1380 DAILY MX	26 - lb/d	<=30 MO AVG	<=60 DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI									
00310	BOD, 5-day, 20 deg. C	Smpl.	=1773		26 - lb/d	=255		19 - mg/L	0	01/30 - Monthly	24 - COMP24
G - Raw Sewage Influent											
Season: 0		Req.	Req Mon MO AVG		26 - lb/d	Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI									
00310	BOD, 5-day, 20 deg. C	Smpl.	=64		26 - lb/d	=7		19 - mg/L	0	01/30 - Monthly	24 - COMP24
W - See Comments											
Season: 0		Req.	<=1035 WKLY AVG		26 - lb/d	<=45 WKLY AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI									
00400	pH	Smpl.			=6.5		=7	12 - SU	0	05/WK - Five Per Week	GR - GRAB
1 - Effluent Gross											
Season: 0		Req.			>=6.5 MINIMUM		<=8.5 MAXIMUM	12 - SU		05/WK - Five Per Week	GR - GRAB
NODI: -		NODI									
00530	Solids, total suspended	Smpl.	=31	=154	26 - lb/d	=4	=16	19 - mg/L	0	01/30 - Monthly	24 - COMP24
1 - Effluent Gross											
Season: 0		Req.	<=690 MO AVG	<=1380 DAILY MX	26 - lb/d	<=30 MO AVG	<=60 DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI									
00530	Solids, total suspended	Smpl.	=1475		26 - lb/d	=215		19 - mg/L	0	01/30 - Monthly	24 - COMP24
G - Raw Sewage Influent											
Season: 0		Req.	Req Mon MO AVG		26 - lb/d	Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI									
00530	Solids, total suspended	Smpl.	=94		26 - lb/d	=10		19 - mg/L	0	01/30 - Monthly	24 - COMP24
W - See Comments											
Season: 0		Req.	<=1035 WKLY AVG		26 - lb/d	<=45 WKLY AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -		NODI									
00610	Nitrogen, ammonia total [as N]	Smpl.				=3	=3	19 - mg/L	0	01/30 - Monthly	24 - COMP24

Parameter Code	Parameter Name	NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type		
			Value 1	Value 2	Units	Value 1	Value 2	Value 3				Units	
1 - Effluent Gross													
Season: 0		<b>Req.</b>					<=14 MO AVG	<=30 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24		
NODI: -		<b>NODI</b>											
00610	Nitrogen, ammonia total [as N]	<b>Smpl.</b>					=3		19 - mg/L	0	01/30 - Monthly	24 - COMP24	
W - See Comments													
Season: 0		<b>Req.</b>					<=21 WKLY AVG		19 - mg/L	01/30 - Monthly	24 - COMP24		
NODI: -		<b>NODI</b>											
50050	Flow, in conduit or thru treatment plant	<b>Smpl.</b>	=1.85	=2.5	03 - MGD					0	99/99 - Continuous	RC - Recorder (auto)	
1 - Effluent Gross													
Season: 0		<b>Req.</b>	<=2.76 MO AVG	<=6 DAILY MX	03 - MGD						99/99 - Continuous	RC - Recorder (auto)	
NODI: -		<b>NODI</b>											
61211	Enterococci	<b>Smpl.</b>						=0	13 - #/100mL	0	09/99 - See Permit	GR - GRAB	
1 - Effluent Gross													
Season: 0		<b>Req.</b>						Req Mon DAILY MX	13 - #/100mL		09/99 - See Permit	GR - GRAB	
NODI: -		<b>NODI</b>											
74055	Colliform, fecal general	<b>Smpl.</b>					=0	=2	13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
1 - Effluent Gross													
Season: 0		<b>Req.</b>					<=200 MO GEOMN	<=800 DAILY MX	13 - #/100mL		01/07 - Weekly	GR - GRAB	
NODI: -		<b>NODI</b>											
74055	Colliform, fecal general	<b>Smpl.</b>					=2		13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
W - See Comments													
Season: 0		<b>Req.</b>					<=400 WKLY AVG		13 - #/100mL		01/07 - Weekly	GR - GRAB	
NODI: -		<b>NODI</b>											
81010	BOD, 5-day, percent removal	<b>Smpl.</b>				=98				23 - %	0	01/30 - Monthly	CA - CALCTD
K - Percent Removal													
Season: 0		<b>Req.</b>				>=85 MN % RMV				23 - %		01/30 - Monthly	CA - CALCTD
NODI: -		<b>NODI</b>											
81011	Solids, suspended percent removal	<b>Smpl.</b>				=98				23 - %	0	01/30 - Monthly	CA - CALCTD
K - Percent Removal													
Season: 0		<b>Req.</b>				>=85 MN % RMV				23 - %		01/30 - Monthly	CA - CALCTD
NODI: -		<b>NODI</b>											

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

Name	Type	Size
4280_001.pdf	pdf	320888
4283_001.pdf	pdf	635760

**Report Last Saved By**

**JUNEAU, CITY AND BOROUGH OF**

User: CBJWASTEWATER1  
Name: James Westcott  
E-Mail: jim.westcott@juneau.org  
Date/Time: 2019-02-13 15:40 (Time Zone:-09:00)

**Report Last Signed By**

User: CBJWASTEWATER1  
Name: James Westcott  
E-Mail: jim.westcott@juneau.org  
Date/Time: 2019-02-13 15:45 (Time Zone:-09:00)

# Alaska Department of Environmental Conservation Monthly Discharge Monitoring Report (DMR)

CONTACT NAME: Mark Mow  
 MAILING ADDRESS: 155 S. Seward Street  
 Juneau, AK 99801

FACILITY: JUNEAU DOUGLAS WW TREATMENT FACILITY  
 LOCATION: 1540 Thane Rd  
 Juneau, AK 99801

PERMIT NUMBER: AK0023213

MONITORING PERIOD: 1/1/2019 TO 1/31/2019

MONITORING POINT: 002 (N-11) (P) Sta. AE NO DISCHARGE:

Parameter	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
	Average	Maximum		Minimum	Average				
Biochemical Oxygen Demand (BOD5)	Sample meas.			*****					
	Permit reqmt.	Report monthly average	lbs/day	*****	Report monthly average	mg/l		When Discharging	Grab
Total Suspended Solids	Sample meas.			*****					
	Permit reqmt.	Report monthly average	lbs/day	*****	Report monthly average	mg/l		When Discharging	Grab
Coliform, fecal MF, M-FC broth, 44.5 C	Sample meas.	*****		*****					
	Permit reqmt.	*****		*****	Report monthly geometric mean	cts/100 ml		When Discharging	Grab
Flow	Sample meas.			*****					
	Permit reqmt.	Report monthly average	MGD	*****	*****			When Discharging	Recorded
Duration of Discharge	Sample meas.	*****		*****					
	Permit reqmt.	*****	min/day	*****	*****			When Discharging	Instantaneous Reading

COMMENTS:

Mail this report when completed to ADEC, Division of Water, 555 Cordova Street, Anchorage, AK 99501-2617

Attach an explanation of any violations. Reference all attachments below.

<b>NAME/TITLE PRINCIPLE EXECUTIVE OFFICE</b>	<b>TELEPHONE</b>	<b>DATE</b>
Mark Mow/Wastewater Collections SR. Operator	907 586-0393	2/1/18
<b>TYPED OR PRINTED</b>	<b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>	<b>AREA/NUMBER</b>
	<i>Mark Mow</i>	YY/MM/DD



# Alaska Department of Environmental Conservation Monthly Discharge Monitoring Report (DMR)

CONTACT NAME: Mark Mow  
 MAILING ADDRESS: 155 S. Seward Street  
 Juneau, AK 99801  
 PERMIT NUMBER: AK0023213

FACILITY: JUNEAU DOUGLAS WW TREATMENT FACILITY  
 LOCATION: 1540 Thane Rd  
 Juneau, AK 99801  
 MONITORING PERIOD: 1/1/2019 TO 1/31/2019  
 MONITORING POINT: 003 (N11.2) (Q) Sta. C NO DISCHARGE: X

Parameter	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
	Average	Maximum		Minimum	Average				
Biochemical Oxygen Demand (BOD5)				*****					
1 - Final Effluent 00310 R	Report monthly average	Report daily maximum	lbs/day	*****	Report monthly average	mg/l		When Discharging	Grab
Total Suspended Solids				*****					
1 - Final Effluent 00530 R	Report monthly average	Report daily maximum	lbs/day	*****	Report monthly average	mg/l		When Discharging	Grab
Coliform, fecal MF, M-FC broth, 44.5 C	*****	*****		*****					
1 - Final Effluent 31616 R	*****	*****		*****	Report monthly geometric mean	cts/100 ml		When Discharging	Grab
Flow				*****					
1 - Final Effluent 50050 R	Report monthly average	Report daily maximum	MGD	*****	*****			When Discharging	Recorded
Duration of Discharge	*****			*****					
1 - Final Effluent 81381 R	*****	report daily maximum	min/day	*****	*****			When Discharging	Instantaneous Reading
COMMENTS:									

Mail this report when completed to ADEC, Division of Water, 555 Cordova Street, Anchorage, AK 99501-2617

Attach an explanation of any violations. Reference all attachments below.

NAME/TITLE PRINCIPLE EXECUTIVE OFFICE  Mark Mow/Wastewater Collections SR. Operator  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE  907 586-0393	DATE  2/1/19
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  		AREA/NUMBER  907 586-0393	YY/MM/DD  2/1/19





# Alaska Department of Environmental Conservation Monthly Discharge Monitoring Report (DMR)

CONTACT NAME: Mark Mow  
 MAILING ADDRESS: 155 S. Seward Street  
 Juneau, AK 99801

FACILITY: JUNEAU DOUGLAS WW TREATMENT FACILITY  
 LOCATION: 1540 Thane Rd  
 Juneau, AK 99801

PERMIT NUMBER: AK0023213

MONITORING PERIOD: 1/1/2019 TO 1/31/2019


MONITORING POINT: 004 (N-15.1) (R) Douglas NO DISCHARGE:

Parameter	Quantity or Loading		Units	Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Average	Maximum		Minimum	Average	Maximum			
Biochemical Oxygen Demand (BOD5)	Sample meas.			*****					
	Permit reqmt.	Report monthly average	Report daily maximum	*****	Report monthly average	Report daily maximum	mg/l	When Discharging	Grab
Total Suspended Solids	Sample meas.			*****					
	Permit reqmt.	Report monthly average	Report daily maximum	*****	Report monthly average	Report daily maximum	mg/l	When Discharging	Grab
Coliform, fecal MF, M-FC broth, 44.5 C	Sample meas.	*****	*****	*****					
	Permit reqmt.	*****	*****	*****	Report monthly geometric mean	Report daily maximum	cts/100 ml	When Discharging	Grab
Flow	Sample meas.			*****					
	Permit reqmt.	Report monthly average	Report daily maximum	*****	*****	*****		When Discharging	Recorded
Duration of Discharge	Sample meas.	*****	*****	*****					
	Permit reqmt.	*****	report daily maximum	*****	*****	*****		When Discharging	Instantaneous Reading

COMMENTS:

Mail this report when completed to ADEC, Division of Water, 555 Cordova Street, Anchorage, AK 99501-2617

Attach an explanation of any violations. Reference all attachments below.

NAME/TITLE PRINCIPLE EXECUTIVE OFFICE	TELEPHONE	DATE
Mark Mow/Wastewater Collections SR. Operator	907 586-0393	2/1/19
	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	
TYPED OR PRINTED	AREA/NUMBER	YY/MM/DD





City and Borough of Juneau  
Public Works Utilities Department  
2009 Radcliffe Road, Juneau, Alaska 99801  
Telephone: 586-0393 FAX: 789-1681

December 26, 2018

Alaska Department of Environmental Conservation  
Division of Water  
555 Cordova Street  
Anchorage, AK 99501-2617

Reference: Permit # AK-0023213

Ms. Bennet,

The following results are of the receiving water samples for JDWWTF collected December 26, 2018.

Sample date	Flow (MGD)	Fecal coliform col/100 ml	Enterococci count/100 ml	Total Ammonia as N	pH	Temperature	Salinity
December 26	.519	<2.0	<10	.10 mg/l	6.81 s.u.	4.1 c	30 s.u.

Enclosed are the analytical laboratory results. This report includes dates of sampling, results of sample analysis and relevant QA/QC information.

Should questions arise, I can be contacted at (907)586-0393.

Regards,

Jim Westcott

CBJ Senior Wastewater Treatment Operator  
jim.westcott@juneau.org

cc: File J-D DMR Permit #AK-002321-3



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Public Works Utilities

641 W. Willoughby Ave., Suite 301 Juneau, AK 99801  
(907) 463 - 4415 Fax (480) 247 - 4476



www.admiraltyenvironmental.com

**CBJ Wastewater: Juneau-Douglas TP**

Permit AK-002321-3

**Analytical Report**

December 26, 2018

Admiralty Environmental EPA ID AK 00976

Juneau, AK

AE 21585

Sample Location	Effluent Composite	Influent Composite	Effluent Grab	Chronic Mixing Zone	Ambient Station
Date & Time Sampled	12/26/2018; 08:00	12/26/2018; 08:05	12/26/2018; 08:00	12/26/2018; 08:30	12/26/2018; 08:30
Fecal Coliform (FC/100 mL)	---	---	< 2.0	< 2.0	---
Enterococci (MPN/100ml)	---	---	< 10	< 10	---
BOD (mg/L)	3.2	240	---	---	---
TSS (mg/L)	< 4.0	192	---	---	---
Ammonia (mg/L)	0.97	---	---	---	---
Salinity (ppt)	---	---	---	---	30

Quality Control:

Analysis	MB	LCS	LCS Duplicate	RPD	Date/Time Commenced	Holding Time Met
FC	< 2	---	---	---	12/26/2018; 11:55	Yes
Entero	---	---	---	---	12/26/2018; 12:17	Yes
BOD	< 2	82.8%	82.8%	0.0%	12/28/2018; 07:30	Yes
TSS	< 4	99.0%	97.0%	2.0%	12/27/2018; 11:35	Yes
NH3	<0.5	101.0%	103.0%	2.0%	12/28/2018; 11:55	Yes
EC	---	---	---	---	12/28/2018; 09:55	Yes

Analysis Description:

Analysis	Method	MDL	PQL	Unit
FC	SM 9222D	1.0	2.0	FC/100ml
Entero	ASTM D6503-99	1.0	10	MPN/100ml
BOD	SM 5210B	0.5	2.0	mg/L
TSS	SM 2540D	1.0	4.0	mg/L
NH3	Hach 10205	0.1	0.5	mg/L
EC	EPA 120.1	0.1	1.0	µs/cm

Case Narrative:

The Effluent nitrate/nitrite result is 19 mg/L. All sample analysis QA/QC parameters were met for this event.

Key:

BOD	Biochemical Oxygen Demand
NH3	Ammonia as N
Entero	Enterococci
EC	Electrical Conductivity
FC	Fecal Coliform
LCS	Laboratory Control Standard
MB	Method Blank
MDL	Method Detection Limit
mg/L	Milligrams Per Liter
MPN	Most Probable Number
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TSS	Total Suspended Solids

David Wetzel  
President, Admiralty Environmental  
dwetzel@admiraltyenv.com



January 8, 2019

Admiralty Environmental, LLC  
641 W. Willoughby Ave, Suite 301  
Juneau, AK 99801-

Work Order No.: 19A0084

Re: CBJ Wastewater/AE 21585

Dear David Wetzel:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 1/3/2019 9:30:00AM for the analyses presented in the following report as Work Order 19A0084.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at [ron.misiunas@microbac.com](mailto:ron.misiunas@microbac.com).

Sincerely,  
Microbac Laboratories, Inc.

Carey Gadzala  
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



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Public Works Utilities  
Tuesday, January 8, 2019

**WORK ORDER SAMPLE SUMMARY**

Date:

**Client:** Admiralty Environmental, LLC  
**Project:** CBJ Wastewater/AE 21585  
**Lab Order:** 19A0084

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19A0084-01	Ambient Station Grab	AE 21585	12/26/2018 08:30	1/3/2019 9:30:00AM

Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

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**Analytical Results**

Date: *Tuesday, January 8, 2019*

**Client:** Admiralty Environmental, LLC  
**Client Project:** CBJ Wastewater/AE 21585  
**Client Sample ID:** Ambient Station Grab  
**Sample Description:** AE 21585  
**Matrix:** Aqueous  
**Work Order/ID:** 19A0084-01  
**Sampled:** 12/26/2018 8:30  
**Received:** 01/03/2019 9:30

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0		Analyst: ABG			
			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 01/07/2019 08:20			
<b>Nitrogen, Ammonia as N</b>								
Nitrogen, Ammonia (As N)	di	A	<b>0.10</b>	0.10		mg/L	1	01/08/2019 12:23



**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

B = Detected in the associated method Blank at a concentration above the routine RL  
b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL  
b\* = Detected in the associated method Blank at a concentration greater than half the RL  
CFU = Colony forming units  
D = Dilution performed on sample  
DF = Dilution Factor  
g = Gram  
E = Estimated Value  
H = Analyte was prepared and/or analyzed outside of the analytical method holding time  
I = Matrix Interference  
J = Analyte concentration detected between RL and MDL (Metals / Organics)  
LOD = Limit of Detection  
LOQ = Limit of Quantitation  
m3 = Meters cubed  
MDL = Method Detection Limit  
mg/Kg = Milligrams per Kilogram (ppm)  
mg/L = Milligrams per Liter (ppm)  
NA = Not Analyzed  
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)  
NR = Not Recovered  
R = RPD outside accepted recovery limits  
RL = Reporting Limit  
S = Spike recovery outside recovery limits  
Surr = Surrogate  
U = Undetected  
> = Greater than  
< = Less than  
% = Percent  
\* = Result exceeds project specific limits

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**ANALYTE TYPES: (AT)**

A,B = Target Analyte  
I = Internal Standard  
M = Summation Analyte  
S = Surrogate  
T = Tentatively Identified Compound (TIC, concentration estimated)

**QC SAMPLE IDENTIFICATIONS**

BLK = Method Blank	ICSA = Interference Check Standard "A"
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"
BS = Method Blank Spike	BSD = Method Blank Spike Duplicate
MS = Matrix Spike	MSD = Matrix Spike Duplicate
ICB = Initial Calibration Blank	ICV = Initial Calibration Verification
CCB = Continuing Calibration Blank	CCV = Continuing Calibration Verification
CRL = Client Required Reporting Limit	OPR = Ongoing Precision and Recovery Standard
PDS = Post Digestion Spike	SD = Serial Dilution
QCS = Quality Control Standard	

**CERTIFICATIONS (Certs)**

*Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.*

- <sup>d</sup> Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- <sup>i</sup> Kansas Dept Health & Env. NELAP (#E-10397)

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## Analytical QC Summary

**Client:** Admiralty Environmental, LLC **Wet Chemistry - Quality Control**  
**Work Order:** 19A0084  
**Project:** CBJ Wastewater/AE 21585  
**Batch:** B132597 **Prep:** EPA 350.1 Rev 2.0

### Nitrogen, Ammonia as N

**Sample ID:** Blank (B132597-BLK1) **Method:** EPA 350.1 Rev 2.0 **Prepped:** 01/07/2019 08:20  
**Source:** **Analyzed:** 01/07/2019 13:20

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Nitrogen, Ammonia (As N)	ND	0.10	mg/L							

**Sample ID:** LCS (B132597-BS1) **Method:** EPA 350.1 Rev 2.0 **Prepped:** 01/07/2019 08:20  
**Source:** **Analyzed:** 01/07/2019 13:22

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Nitrogen, Ammonia (As N)	4.37	0.10	mg/L	4.000		109	90-110			

**Sample ID:** Matrix Spike (B132597-MS1) **Method:** EPA 350.1 Rev 2.0 **Prepped:** 01/07/2019 08:20  
**Source:** 19A0049-01 **Analyzed:** 01/07/2019 13:36

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Nitrogen, Ammonia (As N)	18.6	0.20	mg/L	8.000	12.3	78.7	90-110			S

**Sample ID:** Matrix Spike (B132597-MS2) **Method:** EPA 350.1 Rev 2.0 **Prepped:** 01/07/2019 08:20  
**Source:** 19A0131-07 **Analyzed:** 01/08/2019 12:28

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Nitrogen, Ammonia (As N)	4.07	0.10	mg/L	4.000	0.279	94.8	90-110			

**Sample ID:** Matrix Spike Dup (B132597-MSD1) **Method:** EPA 350.1 Rev 2.0 **Prepped:** 01/07/2019 08:20  
**Source:** 19A0049-01 **Analyzed:** 01/07/2019 13:39

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Nitrogen, Ammonia (As N)	20.5	0.20	mg/L	8.000	12.3	102	90-110	9.50	20	

**Sample ID:** Matrix Spike Dup (B132597-MSD2) **Method:** EPA 350.1 Rev 2.0 **Prepped:** 01/07/2019 08:20  
**Source:** 19A0131-07 **Analyzed:** 01/08/2019 12:31

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Nitrogen, Ammonia (As N)	4.04	0.10	mg/L	4.000	0.279	94.2	90-110	0.616	20	



Admiralty Environmental  
 641 W. Willoughby Ave., Ste 301  
 Juneau, AK 99801 (907)  
 463-4415 fax (480) 247-4476

CHAIN OF CUSTODY / TRANSMITTAL RECORD  
 PAGE 1 OF 1

PROJECT NAME:			ADEC Compliance			Field Results		
CBJ Wastewater Juneau-Douglas Treatment Plant Permit # AK-002321-3								
REPORT TO:	PHONE:	# of Bottles						
City and Borough of Juneau E-mail: karen.sevel@juneau.org jim.westcott@juneau.org rico.tempest@juneau.org	(907) 586-0393							
ADDRESS:	SAMPLED BY:	MATRIX	BOD and TSS	Fecal Coliform	Enterococci	Ammonia	Salinity	
2008 Radcliffe Road Juneau, AK 99801	L. Vaughan							
DATE	TIME	SITE DESCRIPTION / IDENTIFIER						
12-26-18	0900	J-D WTP Effluent 24hr Composite	X					
12-26-18	0905	J-D WTP Influent 24hr Composite	X					
12-26-18	0900	J-D WTP Effluent Grab	X	X				
12-26-18	0930	Chronic Mixing Zone Grab	X	X				
12-26-18	0930	Ambient Station Grab			X	X		pH 4.1 11.15 3.80

Comments:		Temp (°C):		Bottles Intact:	
Relinquished by: (signature)	Relinquished by: (print)	8.43	Yes	8.43	Yes
Received by: (signature)	Received by: (print)	12-26-18	No	L. Vaughan	No
Relinquished by: (signature)	Relinquished by: (print)	12-26-18	Temp	KMMW	Sufficient Sample Volume:
Received by: (signature)	Received by: (print)	0900	Thermo ID#		Labels Agree with COC:
		0900	Condition of Custody seal	✓	Holding Time Met:
			Initiated By:	KMMW	Problems:
			Shipped Via:		

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**Cooler Receipt Log**

Cooler ID: Default Cooler



**Cooler Inspection Checklist**

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct containers listed on COC?	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes
Trip Blank(s) Present or not required?	Yes

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