

JUNEAU-DOUGLAS WASTEWATER TREATMENT FACILITY
December 2016

WEATHER			FLOWS		INFLUENT							Effluent										
DAY	DATE	TEMP	RAIN FALL INCHES	J-D FTL EFFL MGD	TEMP	pH	D.O.	T.S.S.	T.S.S.	BOD	BOD	TEMP	pH	D.O.	T.S.S.	F.S.S.	BOD	BOD	FECAL Coliform /100 ml	Channel Fecal /100 ml	Enterococci Fecal /100 ml	
					°C		mg/L	mg/L	LBS	mg/L	LBS	°C		mg/L	mg/L	LBS	mg/L	LBS				
Thur	1	39.7	0.04	1.11	9.4	7.8	4.9					10.5	6.8	4.6								
Fri	2	41.5	0.84	3.50	7.4	7.7	7.8					10.6	6.8	5.3								
Sat	3	36.0	2.01	2.60																		
Sun	4	26.7	0.57	0.94																		
Mon	5	19.6	0.00	0.78	9.2	7.3	6.3					8.9	7.0	5.5								
Tue	6	19.2	0.00	0.70	8.6	7.5	4.8	110	645	150	879	9.3	6.9	7.1	1	6	3	16	2			
Wed	7	24.8	0.58	0.64	10.9	7.3	6.7	180	962	210	1123	10.0	6.8	5.8	6	30	4	23				
Thu	8	22.1	0.23	0.66	8.5	7.6	3.7					9.9	6.8	5.3								
Fri	9	21.2	T	0.55	10.0	8.2	2.3					10.0	7.0	6.7								
Sat	10	17.9	0.00	0.58																		
Sun	11	23.1	0.00	0.57																		
Mon	12	26.5	0.00	0.59	10.7	7.4	3.5					10.3	7.0	4.7								
Tue	13	15.5	0.00	0.59	10.8	7.4	4.9	84	414	140	690	9.7	6.8	6.3	1	5	3	13	7			
Wed	14	20.9	0.00	0.60	10.5	7.4	5.8	208	1044	230	1155	9.6	6.8	5.3	6	28	4	18				
Thu	15	19.9	0.00	0.61	9.4	7.4	6.2					9.7	6.8	5.8								
Fri	16	21.4	0.00	0.50	10.1	7.7	3.3					10.2	6.8	5.9								
Sat	17	32.6	0.00	0.96																		
Sun	18	36.3	0.32	1.84																		
Mon	19	36.8	1.11	1.54	4.8	7.8	10.0					7.3	6.9	6.6								
Tue	20	37.2	0.70	2.09	7.4	7.5	7.8	76	1325	36	628	7.7	6.7	5.5	5	85	6	112	2			
Wed	21	37.2	1.13	1.26	8.1	7.2	9.7	36	377	80	838	6.9	6.9	7.5	10	105	5	48				
Thu	22	35.2	0.45	1.00	7.5	7.4	8.1					8.4	6.7	5.4								
Fri	23	25.7	M	0.50	10.6	8.3	4.0					9.7	6.7	5.1								
Sat	24	22.5	0.00	0.61																		
Sun	25	29.1	0.00	0.56																		
Mon	26	32.9	0.14	0.58	7.7	7.4	2.8					9.2	6.9	5.1								
Tue	27	35.1	0.21	0.86	7.8	7.4	2.8	208	1487	230	1644	9.2	6.8	4.8	1	7	4	27				
Wed	28	37.0	0.45	1.07	6.4	7.5	6.6	108	962	130	1158	9.3	6.7	4.8	4	36	3	26	5			
Thu	29	35.8	0.48	0.69	7.3	7.5	5.5					8.8	6.7	7.3								
Fri	30	35.6	0.04	1.18	7.9	7.7	4.0					9.2	6.6	5.5								
Sat	31	28.90	0.71	0.75																		
Total			10.01	31.01																		
MAXIMUM		41.5	2.01	3.50	10.9	8.3	10.0	208	1487	230	1644	10.6	7.0	7.5	10	105	6	112	7			
MINIMUM		15.5	0.00	0.50	4.8	7.2	2.3	36	377	36	628	6.9	6.6	4.6	1	5	3	13	2			
AVERAGE*		28.8	0.35	1.00		7.5	5.5	126	902	151	1014	9.3		5.7	4	36	4	35	1			
Star 11 Analysis		31	29	0	22	22	22	8	8	8	8	22	22	22	8	8	8	8	8	8	8	8

Ammonia	mg/L	Copper	ug/L
12/6/16	2.1	NA	NA

85%	
B.O.D	97
S.S.	97

Weekly TSS,BOD	TSS				BOD		Weekly Coliform Geo. Mean
	Aver.	mg/l	lbs	mg/l	lbs		
WEEK1	3	18	4	20	2		
WEEK2	3	17	6	15	7		
WEEK3	7	95	3	80	2		
WEEK4	3	21	3	26	5		
MAX WKLY AVG	7	95	6	80	7		

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

CONTACT NAME: Samantha Stoughtenger
 MAILING ADDRESS: 2009 Radcliffe Road
 Juneau, AK 99801

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

PERMIT NUMBER: AK0023213


MONITORING PERIOD: 12/1/2016

TO 12/31/2016

OUTFALL / MONITORING POINT: 001

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Temperature (C) 1 - Final Effluent 00010	Sample meas.	*****	*****		*****	*****	10.6		0		
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	DEG.C		5X Weekly	Grab
Dissolved Oxygen 1 - Final Effluent 00300	Sample meas.	*****	*****		4.6	*****	7.5		0		
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	17 daily maximum	mg/l		5X Weekly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	35	112		*****	4	6		0		
	Permit reqmt.	690 monthly average	1,380 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5) G - Influent 00310	Sample meas.	1014	*****		*****	151	*****		0		
	Permit reqmt.	report monthly average	*****	lbs/day	*****	report monthly average	*****	mg/l		Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	*****	80		*****	6	*****		0		
	Permit reqmt.	*****	1,035 weekly average	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <i>GRIEKO TEMPEL</i> <i>SK. OPERATOR</i>	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 evaluate 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	DATE
			907.586.0393	12/1/16
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D

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

CONTACT NAME: Samantha Stoughtenger
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PERMIT NUMBER: AK0023213

MONITORING PERIOD: 12/1/2016

TO 12/31/2016

OUTFALL / MONITORING POINT: 001

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		6.6	*****	7.0		0		
	Permit reqmt.	*****	*****		6.5 minimum	*****	8.5 maximum	S.U.		5X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	38	105		*****	4	10		0		
	Permit reqmt.	690 monthly average	1,380 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		Monthly	24-Hr Composite
Total Suspended Solids G - Influent 00530	Sample meas.	902	*****		*****	126	*****		0		
	Permit reqmt.	report monthly average	*****	lbs/day	*****	report monthly average	*****	mg/l		Monthly	24-Hr Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	*****	95		*****	7	*****		0		
	Permit reqmt.	*****	1,035 weekly average	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	24-Hr Composite
Ammonia Nitrogen (as N) 1 - Final Effluent 00610	Sample meas.	*****	*****		*****	2.1	2.1		0		
	Permit reqmt.	*****	*****		*****	14 monthly average	30 daily maximum	mg/l		Monthly	24-Hr Composite

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TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	AREA NUMBER	Y M D

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PERMIT NUMBER: AK0023213
 OUTFALL / MONITORING POINT: 001

MONITORING PERIOD: 12/1/2016

TO 12/31/2016

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Ammonia Nitrogen (as N) W - See Comments 00610	Sample meas.	*****	*****		*****	2.1	*****		0		
	Permit reqmt.	*****	*****		*****	21 weekly average	*****	mg/l		Monthly	24-Hr Composite
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	*****	*****		*****	*****	NA		0		
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	ug/l		Quarterly	24-Hr Composite
Flow 1 - Final Effluent 50050	Sample meas.	1.00	3.5		*****	*****	*****		0		
	Permit reqmt.	2.76 monthly average	6.0 daily maximum	MGD	*****	*****	*****	MGD		Continuous	Recorded
Enterococci 1 - Final Effluent 61211	Sample meas.	*****	*****		*****	*****	NA		0		
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	cts/100 ml		See Permit Requirements	Grab
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	1	7		0		
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Weekly	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER GRIEKO TEMPEL SK. OPERATOR	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 evaluate 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 907.506.0393	DATE 12/1/16
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 Juneau, AK 99801

PERMIT NUMBER: AK0023213

MONITORING PERIOD: 12/1/2016

TO 12/31/2016

OUTFALL / MONITORING POINT: 001

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Fecal Coliform W - See Comments 74055	Sample meas.	*****	*****		*****	7	*****		0		
	Permit reqmt.	*****	*****		*****	400 weekly average	*****	cts/100 ml		Weekly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		97		*****		0		
	Permit reqmt.	*****	*****		85 minimum percent removal		*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		97		*****				
	Permit reqmt.	*****	*****		85 minimum percent removal		*****	%		Monthly	Calculation

COMMENTS:
 W = weekly average;

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 PRINCIPAL EXECUTIVE OFFICER <i>GRIEGO TEMPEL</i> <i>SX. OPERATOR</i>	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 evaluate 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 <i>907.586.0393</i>	DATE <i>17/1/16</i>
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D

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: 12/1/2016 TO 12/31/2016
 MONITORING POINT: 003 (N11.2) (Q) Sta C NO DISCHARGE:

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

COMMENTS:

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TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D

Mark J. Mow / SR. OPERATOR
 907-790-2525

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: 12/1/2016 TO 12/31/2016

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

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

COMMENTS:

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MARK J. MOW / SR. OPERATOR TYPED OR PRINTED	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	907.790-2525 AREA NUMBER	1/4/17 Y M D

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

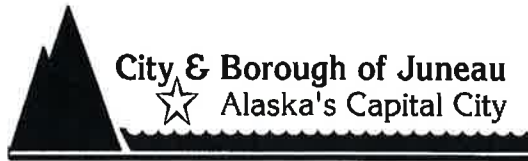
MONITORING PERIOD: 12/1/2016 TO 12/31/2016
 MONITORING POINT: 002 (N-11) (P) Sta AE NO DISCHARGE:

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

COMMENTS:

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<i>MARK J. MOW / SR. OPERATOR</i>	<i>Mark J. Mow</i>	907-790-2525	1/4/17
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA NUMBER	Y M D



City and Borough of Juneau
Public Works Utilities Department
2009 Radcliffe Road, Juneau, Alaska 99801
Telephone: 586-0393 FAX: 586-4523

January 11, 2017

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

Reference: Juneau Douglas WWTP permit # AK-0023213

The Whole Effluent Toxicity test conducted in April 2016 (start 4/20/16 at 0700 AM, end 4/21/2016 at 0715 AM, see included Chain Of Custody) was unsuccessful due to issues with the test organisms (see included copy of the email from the test laboratory, Bio-Aquatics for explanation).

Another test was conducted in November 2016. This test was successful, and will be reported with the May 2017 DMR as per permit reporting requirements (section 1.3.6.1).

Sincerely,

A handwritten signature in blue ink, appearing to read "Grieko Tempel".

Grieko Tempel
Senior Wastewater Treatment Operator CBJ Wastewater Utility
2009 Radcliffe Road
Juneau, AK 99801
907-586-0393
rico.tempel@juneau.org

Rico Tempel

From: Brandi Grubbs <bgrubbs@bio-aquatic.com>
Sent: Monday, May 02, 2016 1:54 PM
To: Rico Tempel; Karen Sewell; Randall Brown
Subject: Re: Juneau-Douglas AK-0023213

Follow Up Flag: Follow up
Due By: Thursday, September 15, 2016 8:00 AM
Flag Status: Flagged

Hello,

I wanted to contact you all to let you know that for this sampling period, the laboratory did not have a successful experience spawning the wild-caught organisms used for your test. The gravid period for the organisms fluctuates and the harvest we received was either not gravid (not in season) or was too stressed from shipment to spawn as required for the embryo development test. I have spoken with our president and the technicians who perform this test and they all believe that it is in your facility's best interest to try this test again later in the year when the organisms are more likely to be gravid. We will attempt to order our next set of organisms from an oyster farm, rather than having them wild-caught from the ocean, so that we can hopefully preselect the ratio of males to females. If farmed oysters cannot be obtained, we will likely target November for testing due to a more evenly distributed ratio of males to females in the wild. I apologize for any inconvenience. Should you have any questions, please let me know and I will forward them to the correct party.

Thank you,

Brandi

On 4/20/2016 12:08 PM, Rico Tempel wrote:

Hi Brandi, dropped the samples for the Blue Mussels WET test for the Juneau-Douglas WWTP of at FedEx.

Please let me know if you have any questions.

Thank you,

Rico Tempel

Senior Operator Wastewater Treatment

City and Borough of Juneau

Work: 907-586-0393 (Mendenhall WWTP)

907-586-5329 (Juneau Douglas WWTP)

Cell: 907-723-2203

907-957-4393

Email: rico.tempel@juneau.org

--
Brandi Grubbs
Bio-Aquatic Testing
Scheduling
Phone: 972-242-7750 X 115

