

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

CONTACT NAME: Catherine Carlson
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 Juneau, AK 99801

FACILITY: Auke Bay WWTF
 LOCATION: 11825 GLACIER HWY
 Juneau, AK 99801

PERMIT NUMBER: AK6572004

MONITORING PERIOD: 2/1/2015

TO 2/28/2015

OUTFALL / MONITORING POINT: 001A Discharge into Auke Bay

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Dissolved Oxygen 1 - Final Effluent 00300	Sample meas.	*****	*****		4.66	*****	*****		0		
	Permit reqmt.	*****	*****		2.0 daily minimum	*****	*****	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	4.15	5.38		*****	8.90	11.00		0		
	Permit reqmt.	40 monthly average	80 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) G - Influent 00310	Sample meas.	*****	*****		*****	237.50	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	4.86	*****		*****	10.00	*****		0		
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
pH 1 - Final Effluent 00400	Sample meas.	*****	*****		7.35	*****	7.53		0		
	Permit reqmt.	*****	*****		6.0 daily minimum	*****	9.0 daily maximum	S.U.		3X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	2.24	4.69		*****	4.78	9.50		0		
	Permit reqmt.	40 monthly average	80 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		Monthly	Grab-Composite
Total Suspended Solids G - Influent 00530	Sample meas.	*****	*****		*****	159.13	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		Monthly	Grab-Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	3.64	*****		*****	7.00	*****		0		
	Permit reqmt.	60 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		Monthly	Grab-Composite
Flow 1 - Final Effluent 50050	Sample meas.	0.06	0.08		*****	*****	*****				
	Permit reqmt.	Report monthly average	0.16 daily maximum	MGD	*****	*****	*****			5X Weekly	Measured
Total Residual Chlorine 1 - Final Effluent 50060	Sample meas.	*****	*****		*****	0.05	0.23		0		
	Permit reqmt.	*****	*****		*****	0.5 monthly average	1.0 daily maximum	mg/l		3X Weekly	Grab
Enterococci 1 - Final Effluent 61211	Sample meas.	*****	*****		*****	*****	*****				
	Permit reqmt.	*****	*****		*****	*****	Report daily maximum	cts/100 ml		See Permit Requirements	Grab
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	1.91	3.30		0		
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Monthly	Grab
BOD5 Minimum % Removal K - Percent Removal 81010	Sample meas.	*****	*****		96.25	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal K - Percent Removal 81011	Sample meas.	*****	*****		97.00	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum percent removal	*****	*****	%		Monthly	Calculation

COMMENTS:

W = Average Weekly Effluent Limits;
 For Enterococci Bacteria monitoring requirements see Section 2.4 of the permit

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 CATHERINE E CARLSON 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 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) 586-0393	DATE 15/3/9

AUKE BAY WASTEWATER TREATMENT FACILITY
Juneau, Alaska

February 2015

		FLOWS				INFLUENT								EFFLUENT								MISCELLANEOUS					
DAY	DATE	INFLUENT MGD	WASTE SLUDGE MGD	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FOG mg/L	NH3 mg/L	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FOG mg/L	NH3 mg/L	FECAL COLIFORM /100 ml	Cl ₂ RESIDUAL mg/L	Cl ₂ USED Gal	Na2SO3 USED LBS		
Sun	1	0.057	0.000500										10.90	7.38	4.97									2.00	3.41		
Mon	2	0.052	0.002000	10.60	8.23	7.27							10.80	7.37	5.45	4.40	2.12	9.00	4.34			3.30	0.02	2.00	2.79		
Tue	3	0.058	0.001500	11.50	8.19	6.59	168.00	81.07	230.00	110.98			10.70	7.36	5.16	4.40	2.15	11.00	5.38				0.04	2.00	2.79		
Wed	4	0.059	0.002000	9.00	7.79	7.65	172.00	84.11	210.00	102.70			10.80	7.43	5.34								0.02	2.00	3.10		
Thu	5	0.061	0.001500	10.60	7.77	4.08							10.60	7.48	4.66								0.03	2.00	2.79		
Fri	6	0.061	0.000750	11.30	8.11	5.94							10.60	7.48	4.66												
Sat	7	0.060	0.001500																					1.00	3.10		
Sun	8	0.053	0.001500																					3.00	3.10		
Mon	9	0.047	0.001500	9.10	8.21	6.27							10.10	7.40	4.68								0.02	2.00	2.48		
Tue	10	0.050	0.001500	10.40	7.94	7.51	203.00	84.65	320.00	133.44			10.00	7.48	5.76	5.20	2.17	9.10	3.79			2.00	0.12	2.00	3.10		
Wed	11	0.055	0.001500	9.50	8.40	6.71	132.00	60.70	270.00	124.16			10.50	7.42	5.69	4.80	2.21	8.50	3.91				0.05	2.00	2.48		
Thu	12	0.061	0.002000	9.20	8.26	8.47							11.00	7.40	4.75								0.02	2.00	2.79		
Fri	13	0.068	0.002000	10.10	8.42	8.02							10.60	7.46	5.32								0.03	2.00	3.10		
Sat	14	0.062	0.001500																					2.00	3.72		
Sun	15	0.056	0.001500																					2.00	3.10		
Mon	16	0.063	0.001500	12.20	8.33	6.33							12.30	7.35	5.54								0.23	2.00	3.10		
Tue	17	0.069	0.002000	10.70	7.82	8.30	100.00	57.76	120.00	69.31			10.60	7.40	6.19	4.50	2.60	8.80	5.08			1.00	0.04	2.00	3.41		
Wed	18	0.059	0.001500	9.70	7.74	7.59	254.00	125.30	310.00	152.92			10.30	7.36	4.77	9.50	4.69	7.70	3.80				0.01	2.00	3.72		
Thu	19	0.065	0.002000	10.90	8.05	7.25							10.40	7.39	4.81								0.00	2.00	2.48		
Fri	20	0.063	0.001500	9.90	8.16	8.17							10.40	7.53	5.67								0.02	2.00	3.10		
Sat	21	0.063	0.001500																					2.00	3.72		
Sun	22	0.063	0.001500																					1.00	2.48		
Mon	23	0.082	0.002000	10.00	7.54	7.70							11.10	7.39	4.97								0.22	2.00	2.48		
Tue	24	0.042	0.002250	10.20	7.56	8.24	93.00	32.65	170.00	59.68			9.90	7.42	5.20	4.40	1.54	8.50	2.98			2.00	0.01	2.00	3.72		
Wed	25	0.055	0.002800	9.50	7.61	8.07	151.00	68.86	270.00	123.13			9.90	7.45	5.36	1.00	0.46	8.60	3.92				0.02	2.00	3.41		
Thu	26	0.069	0.001875	8.80	7.85	8.49							10.30	7.42	5.17								0.09	2.00	3.10		
Fri	27	0.051	0.001125																				0.03	2.00	3.41		
Sat	28	0.060																						2.00	2.79		
TOTAL		1.66	0.044300																					51.00			
MAXIMUM		0.08	0.002800	12.20	8.42	8.49	254.00	125.30	320.00	152.92			12.30	7.53	6.19	9.50	4.69	11.00	5.38			3.30	0.23	3.00	3.72		
MINIMUM		0.04	0.000500	8.80	7.54	4.08	93.00	32.65	120.00	59.68			9.90	7.35	4.66	1.00	0.46	7.70	2.98			1.00	0.00	1.00	2.48		
AVERAGE		0.06	0.001641	10.17		7.30	159.13	74.39	237.50	109.54			10.59		5.23	4.78	2.24	8.90	4.15			1.91	0.05	1.96	3.08		
OF ANALYSIS		28	27	19	19	19	8	8	8	8	0	0	19	19	19	8	8	8	8	8	0	0	4	20	28	28	

COMMENTS:

*GEOMETRIC MEAN WAS USED TO CALCULATE THE AVERAGE FECAL COLIFORM COLONIES

WEEK	WEEKLY AVERAGE						WEEKLY
	BOD		TSS		CHLORINE		COLIFORM
	mg/l	lbs	mg/l	lbs	mg/l	Gal	Geo. Mean
1	10.00	4.86	4.40	2.14	0.03	1.86	3.30
2	8.80	3.85	5.00	2.16	0.05	2.14	2.00
3	8.25	4.44	7.00	3.64	0.06	2.00	1.00
4	8.55	3.45	2.70	2.32	0.07	1.86	2.00
5							
MAX	10.00	4.86	7.00	3.64	0.07	2.14	3.30

% REMOVAL	
B.O.D.	96.25
S.S.	97.00