

MENDENHALL WASTEWATER TREATMENT FACILITY
Juneau, Alaska

May-2015

		FLOWS				Influent										Effluent								
DAY	DATE	SBR INFLUENT MGD	precip	SBR TTFEPL MGD	SBR WASTE MGD	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	IPS TSS mg/L	IPS TSS LBS	IPS BOD mg/L	IPS BOD LBS	TEMP °C	pH	D.O. mg/L	S.S. mg/L	S.S. LBS	B.O.D. mg/L	B.O.D. LBS	FECAL COLIFORM /100 ml
SUN	3	1.87	0.00	1.74	0.0720																			
MON	4	1.98	0.00	1.87	0.0897	11.7	7.4	3.5	183.0	3021.9	230.0	3798.0	1770.0	29228.4	480.0	7926.3	13.4	6.8	2.8	26.0	405.5	16.0	249.5	2.0
TUE	5	2.00	0.00	1.79	0.0929	11.5	7.2	3.7	202.0	3369.4	330.0	5504.4	1820.0	75894.0	500.0	8340.0	13.7	6.8	2.7	15.0	223.9	14.0	209.0	1.0
WED	6	1.96	0.00	1.76	0.0889	12.3	7.3	2.6	220.0	3596.2	330.0	5394.3	812.0	40632.5	480.0	7846.3	14.6	6.8	3.2	14.0	205.5	17.0	249.5	
THU	7	1.85	T	1.69	0.0994	12.4	7.3	2.1	215.0	3317.2	450.0	6943.1	420.0	24519.6	560.0	8640.2	14.5	6.8	3.0	14.0	197.3	18.0	253.7	
FRI	8	1.89	T	1.60	0.0856	12.5	7.3	2.3	185.0	2916.1	530.0	8354.2	353.0	23552.2	720.0	11349.1	14.5	6.9	2.8	13.0	173.5	27.0	360.3	
SAT	9	1.88	0.22	1.69	0.0761																			
SUN	10	1.75	0.01	1.57	0.0814																			
MON	11	1.80	T	1.69	0.0740	13.7	7.4	3.7	204.0	3062.4	277.0	4158.3	1480.0	22217.8	510.0	7656.1	16.0	6.8	3.2	19.0	267.8	21.0	296.0	2.0
TUE	12	1.80	0.00	1.65	0.1037	13.6	7.1	3.5	252.0	3783.0	370.0	5554.4	440.0	6605.3	500.0	7506.0	15.6	6.7	3.3	15.0	206.4	24.0	330.3	170.0
WED	13	1.86	0.00	1.63	0.0907	13.0	7.4	3.0	112.0	1737.4	360.0	5584.5	3370.0	52276.8	660.0	10238.2	15.0	6.8	2.8	15.0	203.9	23.0	312.7	
THU	14	1.87	0.00	1.64	0.1152	12.6	7.2	3.9	266.0	4148.5	430.0	6706.2	1220.0	19026.9	610.0	9513.4	15.3	6.8	2.9	15.0	205.2	21.0	287.2	
FRI	15	1.71	0.00	1.58	0.1075	14.1	7.1	0.1	350.0	4991.5	490.0	6988.1	1180.0	16828.5	700.0	9983.0	15.2	6.8	2.9	17.0	224.0	21.0	276.7	
SAT	16	1.79	0.00	1.69	0.0710																			
SUN	17	1.75	0.00	1.50	0.0623																			
MON	18	1.78	0.00	1.65	0.1256	14.3	7.0	2.2	288.0	4275.4	280.0	4156.7	420.0	6235.0	590.0	8758.7	15.0	6.8	2.8	15.0	206.4	24.0	330.3	11.0
TUE	19	1.78	0.00	1.64	0.0915	13.7	7.1	2.8	340.0	5047.4	450.0	6680.3	480.0	7125.7	650.0	9649.4	15.8	6.8	3.1	17.0	232.5	28.0	383.0	22.0
WED	20	1.80	0.00	1.65	0.1182	13.8	7.2	2.3	344.0	5164.1	520.0	7806.2	500.0	7506.0	660.0	9907.9	15.7	6.8	2.8	20.0	275.2	25.0	344.0	
THU	21	1.87	0.00	1.71	0.1211	13.5	7.5	2.6	380.0	5926.4	550.0	8577.7	510.0	7953.9	670.0	10449.2	16.5	6.7	2.7	17.0	242.4	28.0	399.3	
FRI	22	1.64	0.00	1.54	0.1134	13.8	7.4	2.4	240.0	3282.6	330.0	4513.6	1040.0	14224.7	500.0	6838.8	16.6	6.7	2.0	17.0	218.3	23.0	295.4	
SAT	23	1.68	0.00	1.57	0.0897																			
SUN	24	1.57	0.00	1.44	0.0829																			
MON	25	1.84	0.00	1.68	0.0860	13.2	7.3	3.8	253.0	3882.4	250.0	3836.4	520.0	7979.7	760.0	11662.7	16.7	6.8	2.5	19.0	266.2	21.0	294.2	23.0
TUE	26	1.74	T	1.68	0.0943	14.2	7.3	3.7	390.0	5659.5	390.0	5659.5	760.0	11028.8	560.0	8126.5	16.7	6.9	2.7	15.0	210.2	21.0	294.2	45.0
WED	27	1.77	0.05	1.63	0.0972	14.3	7.0	2.9	253.0	3734.7	410.0	6052.3	470.0	6938.0	560.0	8266.6	16.1	6.9	2.5	16.0	217.5	23.0	312.7	
THU	28	1.79	T	1.65	0.1038	14.6	7.1	2.5	273.0	4075.5	460.0	6867.2	530.0	7912.2	670.0	10002.2	16.6	6.8	3.4	16.0	220.2	26.0	357.8	
FRI	29	1.74	0.00	1.54	0.0990	14.0	7.3	3.3	293.0	4251.9	570.0	8271.6	490.0	7110.7	790.0	11464.2	16.7	6.8	2.4	18.0	231.2	30.0	385.3	
SAT	30	1.66	0.00	1.57	0.0736																			
TOTAL		50.42	0.28	46.04	2.6067																			
MAXIMUM		2.00	0.22	1.87	0.1256	14.6	7.5	3.9	390.0	5926.4	570.0	8577.7	3370.0	75894.0	790.0	11662.7	16.7	6.9	3.4	26.0	405.5	30.0	399.3	170.0
MINIMUM		1.57	0.00	1.44	0.0623	11.5	7.0	0.1	112.0	1737.4	230.0	3798.0	353.0	6235.0	480.0	6838.8	13.4	6.7	2.0	13.0	173.5	14.0	209.0	1.0
AVERAGE *		1.80	0.01	1.64	0.0931	13.34		2.8	262.2	3962.2	400.4	6070.4	929.3	19739.8	606.5	9206.2	15.5		2.8	16.7	231.7	22.6	311.1	10.7
Number of Analy		28	23	28	28	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

2015	
Hrd. mg/l	68.0
Hrd. mg/l	
Alk. mg/l	
D.O. mg/l	2.0
Tox. TUc	NA

2015 Metals			
Copper	20.0	0.28	5/18/2015
Copper			
Lead	ND	ND	5/18/2017
Silver	ND	ND	5/18/2018
Zinc	40.0	0.55	5/18/2019
***NH3 mg/L	20.0	275.2	5/18/2020

% REMOVAL	
B.O.D.	94.4
S.S.	93.6
Floating Solids	
Waste, or Foam	
Pass/Fail	P

		WEEKLY AVERAGE				WEEKLY
		BOD		TSS		COLIFORM
		mg/l	lbs	mg/l	lbs	Geo. Mean
WEEK						
1		18.4	264.4	16.4	241.1	1.4
2		22.0	300.6	16.2	221.5	18.4
3		25.6	350.4	17.2	235.0	15.6
4		24.2	328.8	16.8	229.0	32.2
MAX		25.6	350.4	17.2	241.1	32.2

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

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

FACILITY: MENDENHALL WW TREATMENT FACILITY
 LOCATION: 2009 RADCLIFFE RD
 Juneau, AK 99801

PERMIT NUMBER: AK0022951

MONITORING PERIOD: 1-May

TO 31-May

OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

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.	*****	*****		*****	15.5	16.7		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	DEG.C		5X Weekly	Grab
Dissolved Oxygen 1 - Final Effluent 00300	Sample meas.	*****	*****		2.0	*****	3.4		0		
	Permit reqmt.	*****	*****		Report daily minimum	*****	Report daily maximum	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5) 1 - Final Effluent 00310	Sample meas.	311.1	399.3		*****	22.6	30.0		0		
	Permit reqmt.	1226 monthly average	2452 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5) G - Influent 00310	Sample meas.	*****	*****		*****	400.4	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5) W - See Comments 00310	Sample meas.	350.4	*****		*****	25.6	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER GRIEKO TEMPEL 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 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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE 15/06/09 Y M D
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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.	*****	*****		6.7	*****	6.9		0		
	Permit reqmt.	*****	*****		6.5 instantaneous minimum	*****	8.5 instantaneous maximum	S.U.		5X Weekly	Grab
Total Suspended Solids 1 - Final Effluent 00530	Sample meas.	231.7	405.5		*****	16.7	26.0		0		
	Permit reqmt.	1226 monthly average	2452 daily maximum	lbs/day	*****	30 monthly average	60 daily maximum	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids G - Influent 00530	Sample meas.	*****	*****		*****	262.2	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids W - See Comments 00530	Sample meas.	241.1	*****		*****	17.2	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite
Ammonia Nitrogen (as N) 1 - Final Effluent 00610	Sample meas.	275.2	275.2	lbs/day	*****	20.0	20.0		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Monthly	24-Hr Composite

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Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Hardness, Total (as CaCO3) 1 - Final Effluent 00900	Sample meas.	*****	*****		*****	68.0	68.0		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Monthly	24-Hr Composite
Silver Total Recoverable 1 - Final Effluent 01079	Sample meas.	ND	ND		*****	ND	ND		0		
	Permit reqmt.	*****	*****	lbs/day	*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Zinc Total Recoverable 1 - Final Effluent 01094	Sample meas.	0.55	0.55		*****	40.0	40.0		0		
	Permit reqmt.	*****	*****	lbs/day	*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Lead Total Recoverable 1 - Final Effluent 01114	Sample meas.	ND	ND		*****	ND	ND		0		
	Permit reqmt.	*****	*****	lbs/day	*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	0.28	0.28		*****	20.0	20.0		0		
	Permit reqmt.	1.82 monthly average	3.92 daily maximum	lbs/day	*****	44.5 monthly average	95.8 daily maximum	ug/l		Monthly	24-Hr Composite

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NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Chronic Toxicity 1 - Final Effluent TTOOO	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	TUC		See Permit Requirements	24-Hr Composite
Floating solids, waste or visible foam-visual 1 - Final Effluent 45613	Sample meas.	*****	*****		*****	*****	P		0		
	Permit reqmt.	*****	*****		*****	*****	Report value	pass/fail		Monthly	Visual
Flow 1 - Final Effluent 50050	Sample meas.	1.64	1.87		*****	*****	*****		0		
	Permit reqmt.	Report monthly average	4.9 daily maximum	MGD	*****	*****	*****			Continuous	Recorded
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	10.7	170.0		0		
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Weekly	Grab
Fecal Coliform W - See Comments 74055	Sample meas.	*****	*****		*****	32.2	*****		0		
	Permit reqmt.	*****	*****		*****	400 weekly geometric mean	*****	cts/100 ml		Weekly	Grab

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

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Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
BOD5 Minimum % Removal	Sample meas.	*****	*****		94.4	*****	*****		0		
K - Percent Removal 81010	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal	Sample meas.	*****	*****		93.6	*****	*****		0		
K - Percent Removal 81011	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation

COMMENTS:
 W = Weekly Limits;

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.

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	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		