

MENDENHALL WASTEWATER TREATMENT FACILITY

Juneau, Alaska

November 2016

DAY	DATE	FLOWS		INFLUENT												EFFLUENT									
		SBR	precip	SBR	SBR	TEMP	pH	D.O.	S.S.	S.S.	B.O.D.	B.O.D.	IPS	IPS	IPS	IPS	TEMP	pH	D.O.	S.S.	S.S.	B.O.D.	B.O.D.	Turbidity	FECAL
		MGD		MGD	MGD	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SUN	30	1.58	0.00	1.51	0.0589																				
MON	31	1.70	T	1.54	0.0784	13.0	7.4	6.4	200	2836	240	3403	350	4962	300	4253	14.6	6.9	4.4	10	128	17	218		1
TUE	1	1.71	0.03	1.68	0.1097	13.9	6.8	4.2	243	3466	370	5277	310	4421	370	5277	16.1	6.9	4.0	13	182	19	266		11
WED	2	1.73	0.13	1.84	0.0935	15.5	6.9	4.1	277	3997	480	6926	760	10965	500	7214	15.9	6.9	3.3	8	123	23	353		
THU	3	1.82	0.61	1.85	0.1393	15.6	7.2	5.6	220	3339	500	7589	340	5161	510	7741	16.1	6.9	3.0	17	262	25	386		
FRI	4	1.84	0.63	1.76	0.0681	15.3	7.5	6.5	212	3253	310	4757	320	4911	340	5218	16.1	6.9	4.0	14	205	18	264		
SAT	5	1.89	0.26	1.81	0.0716																				
SUN	6	1.88	0.07	1.65	0.0723																				
MON	7	1.91	0.28	1.80	0.1068	14.1	9.1	6.2	188	2995	210	3345	764	12170	290	4620	14.8	6.9	2.7	10	150	14	210	6.3	3
TUE	8	1.90	0.59	1.93	0.1263	14.0	7.0	5.8	212	3359	360	5705	496	7860	370	5663	14.7	6.9	2.7	10	161	14	225	7.6	10
WED	9	1.96	0.30	1.78	0.1243	13.5	7.5	6.4	204	3335	360	5885	684	11181	410	6702	14.2	6.9	2.9	12	178	18	267		
THU	10	2.01	0.85	1.90	0.1251	13.4	7.0	5.8	217	3638	350	5867	500	8382	380	6370	14.6	6.9	3.8	11	174	15	238		
FRI	11	2.43	0.65	2.15	0.0869	14.2	7.2	7.8	228	4580	330	6688	364	7377	380	7701	14.3	6.8	2.5	20	359	21	377		
SAT	12	2.21	0.01	1.99	0.0654																				
SUN	13	1.90	0.27	1.79	0.0653																				
MON	14	1.97	0.15	1.97	0.0847	13.5	7.6	4.6	175	2875	230	3779	460	7558	380	6243	14.3	6.9	4.6	12	197	17	279	6.1	33
TUE	15	1.81	0.00	1.91	0.0927	15.5	7.8	3.5	407	6144	390	5887	640	9661	450	6793	14.7	6.7	2.6	11	175	17	271	8.0	170
WED	16	1.77	0.00	1.84	0.1397	15.5	7.2	6.7	345	5093	400	5905	500	7381	550	8119	13.8	6.8	8.9	16	246	19	292		52
THU	17	1.81	0.00	1.81	0.1224	14.9	7.1	0.1	288	4347	520	7850	560	8453	520	7850	14.1	6.8	3.1	12	181	19	287		
FRI	18	1.78	0.00	1.66	0.1806	13.9	7.4	6.0	240	3563	400	5938	610	9056	550	8165	13.9	6.8	3.0	13	182	18	252		
SAT	19	1.77	0.00	1.78	0.0824																				
SUN	20	1.74	0.00	1.65	0.0748																				
MON	21	1.85	0.00	1.80	0.0927	13.1	7.5	6.6	227	3502	290	4474	490	7560	470	7252	12.8	6.8	3.2	10	150	15	225	5.5	7
TUE	22	1.81	0.03	1.72	0.1202	14.1	7.2	6.9	196	2959	420	6340	490	7397	740	11171	13.5	6.9	2.8	10	143	12	172	5.2	13
WED	23	1.72	T	1.73	0.1285	13.4	7.4	6.1	273	3916	530	7603	520	7459	630	9037	13.6	6.7	2.9	12	173	15	216		
THU	24	1.75	0.09	1.66	0.1057	14.6	7.3	6.5									13.5	6.9	2.8						
FRI	25	1.60	T	1.52	0.1272	12.6	7.5	6.3									13.7	6.8	2.6						
SAT	26	1.73	0.01	1.59	0.0847																				
SUN	27	1.72	0.08	1.52	0.0627																				
MON	28	1.79	0.09	1.65	0.0956	13.9	7.6	6.5	230	3434	310	4628	400	5971	470	7016	13.4	6.9	3.1	11	151	15	206	6.9	10
TUE	29	1.97	1.42	1.83	0.1333	13.8	7.4	6.5	213	3500	380	6243	400	6572	580	9529	13.7	6.9	2.7	10	153	13	198	6.0	7
WED	30	1.90	T	1.69	0.1243	12.7	7.2	6.6	200	3169	430	6814	510	8081	580	9191	13.7	6.9	3.3	11	173	13	205		
THU	1	1.91	0.24	1.67	0.1277	14.2	7.5	6.8	220	3504	570	9080	410	6531	890	14177	14.2	6.9	3.0	13	181	16	223		68
FRI	2	2.25	1.27	2.18	0.1646	13.7	7.1	0.1	240	4504	530	9945	380	7131	630	11822	13.7	6.8	2.5	23	418	16	291		
SAT	3	2.89	1.10	2.70	0.1554																				
TOTAL		55.68	9.16	63.08	3.7136																				
MAXIMUM		2.43	1.42	2.15	0.18	15.6	9.1	7.8	407	6144	530	7850	764	12170	740	11171	16.1	6.9	8.9	20	359	25	386	8.0	170
MINIMUM		1.60	0.00	1.52	0.06	12.6	6.8	0.1	175	2875	210	3345	310	4421	290	4620	12.8	6.7	2.5	8	123	12	172	5.2	3
AVERAGE *		1.86	0.24	1.78	0.10	14.1		5.7	240	3723	379	5875	506	7679	474	7354	14.3		3.4	12	166	17	260	6.5	15
Number of Analyses		35	31	35	35	25	25	25	23	23	23	23	23	23	23	23	25	25	25	23	23	23	23	12	12

2016	
Hrd. mg/l	92.0
Hrd. mg/l	
Alk. mg/l	

Tox. Tuc	NA
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2016 Metals	
Copper	13.0 0.20
Copper	
Lead	ND
Silver	ND
Zinc	22.0 0.34

→NH3 mg/l	17 261
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WEEK	WEEKLY AVERAGE				% REMOVAL		
	BOD	TSS	COLIFORM	B.O.D.	96		
	mg/l	lbs	mg/l	lbs	Doc. Mean	S.S.	95
1	20	297	12	180	3	Floating Solids	
2	16	263	13	204	5	Waste or Foam	
3	18	276	13	196	66	Pass/Fail	F
4	14	205	11	156	10		
5	15	225	14	215	17		
MAX	20	297	14	215	66		

# 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: 11/1/2016

TO 11/30/2016

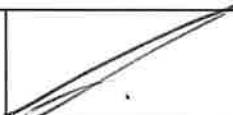
OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

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.	*****	*****		*****	14.3	16.1		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	DEG.C		5X Weekly	Grab
Dissolved Oxygen  1 - Final Effluent 00300	Sample meas.	*****	*****		2.5	*****	8.9		0		
	Permit reqmt.	*****	*****		Report daily minimum	*****	Report daily maximum	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5)  1 - Final Effluent 00310	Sample meas.	260	386		*****	17	25		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.	*****	*****		*****	379	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5)  W - See Comments 00310	Sample meas.	297	*****		*****	20	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
*GRIEKD 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.

  
 SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
907.586.0293	11/12/14
AREA   NUMBER	Y   M   D

# 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

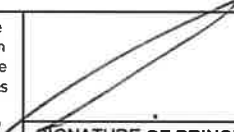
MONITORING PERIOD: 11/1/2016

TO 11/30/2016

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				
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.	186	359		*****	12	20		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.	*****	*****		*****	240	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids  W - See Comments 00530	Sample meas.	215	*****		*****	14	*****		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.	261	261		*****	17	17		0		
	Permit reqmt.	1165 monthly average	1655 daily maximum	lbs/day	*****	28.5 monthly average	40.5 daily maximum	mg/l		Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <i>GRISKO 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  <i>907.586.2393</i>	DATE  <i>11/12/14</i>
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE   OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D

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PERMIT NUMBER: AK0022951

MONITORING PERIOD: 11/1/2016

TO 11/30/2016

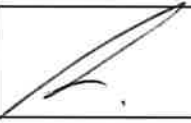
OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

NO DISCHARGE:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Hardness, Total (as CaCO3)  1 - Final Effluent 00900	Sample meas.	*****	*****		*****	92	92		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		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Zinc Total Recoverable  1 - Final Effluent 01094	Sample meas.	*****	*****		*****	22	22		0		
	Permit reqmt.	*****	*****		*****	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		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite
Copper Total Recoverable  1 - Final Effluent 01119	Sample meas.	0.20	0.20		*****	13	13		0		
	Permit reqmt.	3.54 monthly average	7.63 daily maximum	lbs/day	*****	86.7 monthly average	187.0 daily maximum	ug/l		Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
*SR. OPERATOR*  
*GRIEVO TEMPEL*  
 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.

  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
<i>907.586.0393</i>	<i>11/12/14</i>
AREA   NUMBER	Y   M   D

# 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: 11/1/2016

TO 11/30/2016

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				
Chronic Toxicity  1 - Final Effluent TTOO	Sample meas.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	5.1 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.	*****	*****		*****	*****	F		0		
	Permit reqmt.	*****	*****		*****	*****	Report value	pass/fail		Monthly	Visual
Flow  1 - Final Effluent 50050	Sample meas.	1.78	2.15		*****	*****	*****		0		
	Permit reqmt.	Report monthly average	4.9 daily maximum	MGD	*****	*****	*****			Continuous	Recorded
Fecal Coliform  1 - Final Effluent 74055	Sample meas.	*****	*****		*****	15	170		0		
	Permit reqmt.	*****	*****		*****	112 monthly geometric mean	224 daily maximum	cts/100 ml		2X Weekly	Grab
Fecal Coliform  W - See Comments 74055	Sample meas.	*****	*****		*****	66	*****		0		
	Permit reqmt.	*****	*****		*****	168 weekly geometric mean	*****	cts/100 ml		2X Weekly	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <i>GRIEGO TEMPEL</i>  SIC 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  <i>907.586.0293</i>	DATE  <i>11/12/14</i>
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D

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TO 11/30/2016

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				
BOD5 Minimum % Removal	Sample meas.	*****	*****		96	*****	*****		0		
K - Percent Removal 81010	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal	Sample meas.	*****	*****		95	*****	*****		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.

<b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b>	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.		<b>TELEPHONE</b>	<b>DATE</b>
GRIBKO TEMPEL SR. OPERATOR		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	907.506.0293	11/12/14
<b>TYPED OR PRINTED</b>			<b>AREA   NUMBER</b>	<b>Y   M   D</b>