

MENDENHALL WASTEWATER TREATMENT FACILITY

Juneau, Alaska

June 2016

FLOWS				INFLUENT												EFFLUENT										
DAY	DATE	SBR NFLUEN MGD	precip	SBR TTL EFFL 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	Turbidity On FC Grab	FECAL COLIFORM /100 ml	
SUN	29	1.92	0.02	1.49	0.1024																					
MON	30	2.15	0.18	1.68	0.1236	14.1	7.3	3.9	405	7262	395	7083	370	6634	540	9683	15.3	6.8	2.9	14	196	19	266	7.3	3	
TUE	31	2.03	T	1.64	0.1096	14.1	7.6	6.3	260	4402	310	5248	815	13798	490	8296	15.9	6.8	2.9	15	205	17	233	5.3	2	
WED	1	2.11	0.23	1.66	0.1351	16.6	7.2	5.8	275	4839	370	6511	1360	23932	500	8799	15.3	6.9	2.7	16	222	17	235			
THU	2	2.02	0.03	1.66	0.1167	16.1	7.2	5.8	347	5846	530	8929	1180	19879	600	10108	15.9	6.9	2.9	17	235	19	263			
FRI	3	2.05	0.84	1.64	0.1163	15.6	7.6	4.6	300	5129	490	8378	850	14532	610	10429	15.9	6.8	2.7	19	260	20	274			
SAT	4	2.11	0.13	1.73	0.0940																					
SUN	5	1.86	0.36	1.55	0.0793																					
MON	6	2.09	0.07	1.70	0.0930	13.9	7.5	7.5	170	2963	340	5926	355	6188	480	8367	15.5	6.8	2.9	15	213	21	298	5.4	1	
TUE	7	2.12	0.03	1.69	0.1294	14.8	7.0	4.8	240	4243	310	5481	400	7072	460	8133	16.0	6.9	2.8	15	211	15	211	7.4	5	
WED	8	2.09	0.00	1.66	0.1461	16.8	7.1	6.3	300	5229	470	8192	475	8280	540	9413	15.3	6.9	3.9	18	249	14	194			
THU	9	2.13	0.00	1.61	0.1102	15.0	7.1	5.9	288	5116	550	9770	427	7585	520	9237	16.3	6.8	3.0	13	175	21	282			
FRI	10	1.97	0.00	1.61	0.1389	14.9	7.0	6.3	404	6638	540	8872	540	8872	660	10844	16.3	6.8	2.9	24	322	28	376			
SAT	11	2.05	0.08	1.66	0.0989																					
SUN	12	1.93	0.33	1.49	0.0896																					
MON	13	2.17	0.05	1.80	0.0889	14.3	7.6	5.8	192	3475	260	4705	2510	45425	470	8506	15.8	6.9	2.9	14	210	13	195	5.3	3	
TUE	14	1.94	0.00	1.67	0.1023	15.0	7.1	5.9	260	4207	340	5501	747	12086	450	7281	16.3	6.9	2.9	13	181	11	153	6.3	2	
WED	15	2.04	T	1.63	0.1044	17.5	7.2	4.5	268	4560	450	7656	953	16214	530	9017	17.6	6.8	2.2	17	231	15	204			
THU	16	1.93	T	1.59	0.1197	15.9	7.0	4.7	250	4024	480	7726	340	5473	540	8692	17.6	6.9	2.6	11	146	17	225	7.3	16	
FRI	17	1.94	T	1.60	0.1242	14.8	7.1	6.3	245	3964	410	6634	420	6795	570	9222	17.0	6.8	3.1	17	227	18	240			
SAT	18	1.89	T	1.51	0.1025																					
SUN	19	1.77	0.00	1.41	0.0894																					
MON	20	1.93	0.08	1.59	0.1165	14.7	7.4	5.1	185	2978	250	4024	353	5682	420	6760	17.0	6.9	3.0	12	159	11	146	4.1	2	
TUE	21	1.97	0.06	1.58	0.1287	16.3	7.3	4.4	230	3779	350	5750	367	6030	460	7558	16.9	6.9	3.0	12	158	10	127	8.2	13	
WED	22	1.82	T	1.55	0.1297	15.5	7.2	4.1	280	4250	520	7893	460	6982	550	8348	16.7	6.9	3.1	18	233	14	181			
THU	23	1.91	0.00	1.55	0.0932	16.0	7.4	3.5	251	3998	350	5575	760	12106	530	8443	17.4	6.9	2.9	15	194	12	155			
FRI	24	1.86	0.21	1.57	0.0791	16.3	7.4	4.7	248	3847	440	6825	420	6515	540	8377	16.8	6.9	2.7	17	223	15	196			
SAT	25	1.90	0.13	1.54	0.0918																					
SUN	26	1.81	0.11	1.47	0.0920																					
MON	27	1.89	0.01	1.57	0.1156	17.0	7.9	4.5	188	2963	260	4098	390	6147	540	8512	16.8	6.9	2.9	30	393	13	170	9.0	3	
TUE	28	1.97	0.00	1.64	0.1232	16.1	7.0	4.7	225	3697	400	6572	520	8543	560	9201	17.5	6.9	3.2	18	246	12	164	8.5	2	
WED	29	1.92	0.07	1.62	0.1614	17.5	7.0	5.3	580	9287	710	11369	690	11049	690	11049	17.6	6.9	2.8	22	297	20	270			
THU	30	1.94	0.46	1.66	0.1232	17.0	7.1	5.0	318	5145	420	6795	445	7200	440	7119	17.5	6.8	2.2	20	277	18	249			
FRI	1	1.73	0.22	1.60	0.1048	15.9	7.5	5.0	280	4040	480	6926	500	7214	540	7791	17.7	6.9	2.2	18	240	18	240			
SAT	2	1.88	0.48	1.71	0.0990																					
TOTAL		59.13	3.28	48.21	3.33																					
MAXIMUM		2.17	0.84	1.80	0.16	17.5	7.9	7.5	580	9287	710	11369	2510	45425	690	11049	17.6	6.9	3.9	30	393	28	376	9.0	16	
MINIMUM		1.77	0.00	1.41	0.08	13.9	7.0	3.5	170	2963	250	4024	340	5473	420	6760	15.3	6.8	2.2	11	146	10	127	4.1	1	
AVERAGE *		1.97	0.13	1.61	0.11	15.8		5.2	275	4554	420	6963	680	11481	530	8792	16.6		2.9	17	230	16	219	6.8	3	
Number of Analyses		35	29	35	35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	11	11

May 29, 30, 31 and July 1st and 2nd data is not used to calculate June monthly average

2016		2016 Metals		
Hrd. mg/l	69.0	6/16/2016	µg/L	LBS
Nitrate/Nitrite	<1.0	6/16/2017	Copper	13.0 0.173 6/16/2016
Alk. mg/l	160.0	6/16/2018		
T Phos	1.0	6/16/2019	Lead	
TDS	220.0	6/16/2020	Silver	
TKN	19.0	6/16/2021	ZINC	
O&G	ND	6/16/2022		
			---NH3 mg/L	19 252 6/16/2016

WEEK	WEEKLY AVERAGE				WEEKLY	% REMOVAL
	BOD		TSS		COLIFORM	B.O.D.
	mg/l	lbs	mg/l	lbs	Geo. Mean	S.S.
1	18	254	16	224	2	96
2	20	272	17	234	2	94
3	15	204	14	199	5	Floating Solids Waste, or Foam
4	12	161	15	193	5	Pass/Fail P
5	16	219	22	291	2	
MAX	20	272	22	291	5	

# 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

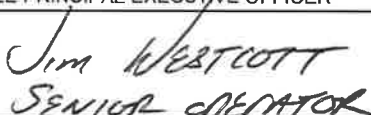
MONITORING PERIOD: 06/01/2016

TO 06/30/2016

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.	*****	*****		*****	16.6	17.6		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	DEG.C		5X Weekly	Grab
Dissolved Oxygen  1 - Final Effluent 00300	Sample meas.	*****	*****		2.2	*****	3.9		0		
	Permit reqmt.	*****	*****		Report daily minimum	*****	Report daily maximum	mg/l		Monthly	Grab
Biochemical Oxygen Demand (BOD5)  1 - Final Effluent 00310	Sample meas.	219	376		*****	16	28		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.	*****	*****		*****	420	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Biochemical Oxygen Demand (BOD5)  W - See Comments 00310	Sample meas.	272	*****		*****	20	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <div style="text-align: center;">                       Jim WESTCOTT                      SENIOR OPERATOR                 </div>	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	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	907. 566. 0393 16/8/24	AREA   NUMBER Y   M   D



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

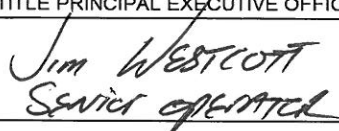
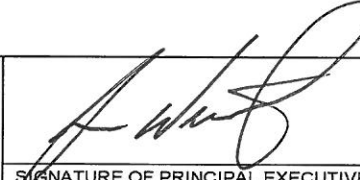
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 LOCATION: 2009 RADCLIFFE RD  
 Juneau, AK 99801

PERMIT NUMBER: AK0022951  
 OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

MONITORING PERIOD: 06/01/2016 TO 06/30/2016  
 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.	*****	*****		6.8	*****	6.9		0		
	Permit reqmt.	*****	*****		6.5 instantaneous minimum	*****	8.5 instantaneous maximum	S.U.		5X Weekly	Grab
Alkalinity, Total (as CaCO3)  1 - Final Effluent 00410	Sample meas.	*****	*****		*****	160	160		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Quarterly	24-Hr Composite
Total Suspended Solids  1 - Final Effluent 00530	Sample meas.	230	393		*****	17	30		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.	*****	*****		*****	275	*****		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	*****	mg/l		2X Monthly	24-Hr Composite
Total Suspended Solids  W - See Comments 00530	Sample meas.	291	*****		*****	22	*****		0		
	Permit reqmt.	1839 weekly average	*****	lbs/day	*****	45 weekly average	*****	mg/l		2X Monthly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <div style="text-align: center;">                       Jim Westcott                      Senior Operator                 </div>	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  <div style="text-align: center;">                       SIGNATURE OF PRINCIPAL EXECUTIVE                 </div>	DATE  16/7/13
TYPED OR PRINTED	OFFICER OR AUTHORIZED AGENT	907.586.0393 AREA   NUMBER	Y   M   D

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

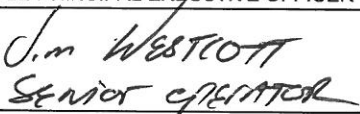
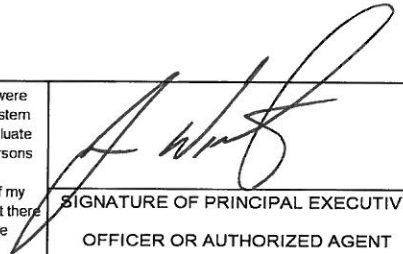
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FACILITY: MENDENHALL WW TREATMENT FACILITY  
 LOCATION: 2009 RADCLIFFE RD  
 Juneau, AK 99801

PERMIT NUMBER: AK0022951  
 OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

MONITORING PERIOD: 06/01/2016 TO 06/30/2016  
 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)  1 - Final Effluent 00610	Sample meas.	*****	*****		*****	19	19		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Monthly	24-Hr Composite
Hardness, Total (as CaCO3)  1 - Final Effluent 00900	Sample meas.	*****	*****		*****	69	69		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	mg/l		Monthly	24-Hr Composite
Silver Total Recoverable  1 - Final Effluent 01079	Sample meas.	*****	*****		*****	NA	NA		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.	*****	*****		*****	NA	NA		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.	*****	*****		*****	NA	NA		0		
	Permit reqmt.	*****	*****		*****	Report monthly average	Report daily maximum	ug/l		See Permit Requirements	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <div style="text-align: center;">                       JIM WESTCOTT                      SENIOR OPERATOR                 </div>	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.	<div style="text-align: center;">                       SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT                 </div>	TELEPHONE  907.586.0393	DATE  10/7/13
TYPED OR PRINTED		OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D

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

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PERMIT NUMBER: AK0022951

MONITORING PERIOD: 06/01/2016

TO 06/30/2016

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				
Copper Total Recoverable 1 - Final Effluent 01119	Sample meas.	0.173	0.173		*****	13	13		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
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.	1.61	1.80		*****	*****	*****		0		
	Permit reqmt.	Report monthly average	4.9 daily maximum	MGD	*****	*****	*****			Continuous	Recorded
Fecal Coliform 1 - Final Effluent 74055	Sample meas.	*****	*****		*****	3	16		0		
	Permit reqmt.	*****	*****		*****	200 monthly geometric mean	800 daily maximum	cts/100 ml		Weekly	Grab

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<i>Jim Westcott</i> Senior Operator		<i>[Signature]</i>	907.586.0393	10/7/13
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: 06/01/2016

TO 06/30/2016

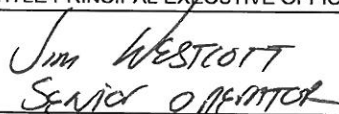
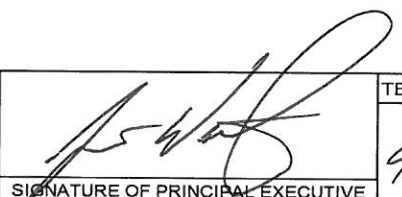
OUTFALL / MONITORING POINT: 001A MENDENHALL RIVER DIFFUSER

NO DISCHARGE:  

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
Fecal Coliform  W - See Comments 74055	Sample meas.	*****	*****		*****	5	*****		0		
	Permit reqmt.	*****	*****		*****	400 weekly geometric mean	*****	cts/100 ml		Weekly	Grab
BOD5 Minimum % Removal  K - Percent Removal 81010	Sample meas.	*****	*****		96	*****	*****		0		
	Permit reqmt.	*****	*****		85 minimum	*****	*****	%		Monthly	Calculation
Total Suspended Solids Minimum % Removal  K - Percent Removal 81011	Sample meas.	*****	*****		94	*****	*****		0		
	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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <div style="text-align: center;">                       Jim Westcott                      Senior Operator                 </div>	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.	<div style="text-align: center;">                       SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT                 </div>	TELEPHONE  907.586.0395	DATE  10/7/13
TYPED OR PRINTED		OFFICER OR AUTHORIZED AGENT	AREA   NUMBER	Y   M   D