

AUKU BAY WASTEWATER TREATMENT FACILITY  
Juneau, Alaska  
SEPTEMBER 2012

DAY	EFFLUENT										MISCELLANEOUS											
	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	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	Cl <sub>2</sub> RESIDUAL mg/L	Cl <sub>2</sub> USED LBS	Na <sub>2</sub> SO <sub>2</sub> USED LBS	
SUN	26	0.076	0.0000																	4.25	4.00	2.48
MON	27	0.100	0.0030	14.2	7.4	5.4					16.4	7.1	2.7				5	0.02	0.02	4.00	1.55	
TUE	28	0.096	0.0030	15.1	7.6	5.3					16.1	7.0	3.4					0.02	0.02	5.00	3.10	
WED	29	0.086	0.0030	15.2	8.1	4.9					15.4	6.9	3.1					0.02	0.02	4.75	4.03	
THU	30	0.085	0.0030	14.3	7.4	5.6					14.1	7.1	3.1					0.02	0.02	4.50	2.79	
FRI	31	0.077	0.0030	14.1	7.5	5.6					14.4	7.2	2.9					0.01	0.01	5.00	2.48	
SAT	1	0.084	0.0030	13.8	7.5	5.2					14.4	7.3	3.0					0.01	0.01	4.00	1.86	
SUN	2	0.073	0.0000																	4.00	4.96	
MON	3	0.095	0.0030	15.3	8.0	5.0					14.7	7.0	3.2					0.23	0.23	5.00	2.17	
TUE	4	0.091	0.0030	15.1	7.6	5.3					15.3	7.1	3.3					0.18	0.18	5.25	4.85	
WED	5	0.082	0.0030	15.4	8.5	5.7	277	142	225	115	14.9	7.1	3.3	8	4	7	4	0.01	0.01	4.00	1.86	
THU	6	0.085	0.0030	14.7	7.6	5.4					14.8	7.2	3.3					0.01	0.01	6.00	4.03	
FRI	7	0.085	0.0030	15.9	7.7	4.7					16.0	7.2	3.4					0.01	0.01	5.00	2.89	
SAT	8	0.097	0.0030	15.4	7.5	4.4					15.4	7.3	3.4						5.50	4.96		
SUN	9	0.118	0.0000																	4.50	3.72	
MON	10	0.103	0.0030	15.3	7.5	5.4					15.7	7.1	3.3					0.02	0.02	5.50	3.41	
TUE	11	0.088	0.0030	15.2	7.7	5.7					16.3	7.1	3.6					0.16	0.16	4.25	3.10	
WED	12	0.103	0.0030	13.3	7.5	7.3					15.9	7.1	3.6					0.02	0.02	5.00	4.85	
THU	13	0.140	0.0030	14.7	7.5	5.8					15.7	7.0	2.5					0.01	0.01	5.00	4.34	
FRI	14	0.098	0.0030	14.4	7.5	6.7					15.3	7.1	3.0					0.02	0.02	5.00	4.96	
SAT	15	0.087	0.0030																	4.25	5.58	
SUN	16	0.109	0.0000																	6.50	4.96	
MON	17	0.101	0.0015	14.4	7.5	6.1					15.8	6.9	2.9					0.03	0.03	6.00	5.58	
TUE	18	0.078	0.0030	14.6	7.5	5.3					15.5	6.9	3.1					0.01	0.01	5.25	3.41	
WED	19	0.080	0.0030	15.6	7.6	5.2					15.9	7.0	2.5					0.01	0.01	5.25	3.41	
THU	20	0.081	0.0000	16.4	7.5	7.5					16.5	6.9	2.6					0.04	0.04	6.00	4.85	
FRI	21	0.059	0.0030	15.9	7.6	5.0					16.3	6.9	2.7					0.01	0.01	5.00	3.14	
SAT	22	0.058	0.0000																	5.00	3.14	
SUN	23	0.091	0.0000																	5.00	3.72	
MON	24	0.071	0.0015	14.8	7.5	4.6					16.0	6.9	2.6					0.03	0.03	6.50	4.34	
TUE	25	0.090	0.0015	13.9	7.2	5.5					15.8	7.0	2.8					0.02	0.02	6.50	2.79	
WED	26	0.079	0.0030	15.1	7.9	4.6					15.9	6.9	2.5					0.04	0.04	6.50	4.34	
THU	27	0.084	0.0030	14.2	7.6	5.6					16.7	7.1	2.0					0.02	0.02	7.00	4.85	
FRI	28	0.081	0.0000	14.6	7.7	5.4					14.9	7.0	2.8					0.09	0.09	6.50	4.34	
SAT	29	0.070	0.0000																	7.00	4.85	
TOTAL		3.017	0.0735																	183.75		
MAXIMUM		0.140	0.0030	16.4	8.5	7.5	277	142	225	115	16.7	7.3	3.6	8.0	4.1	7.0	3.6	5	0.23	7.00	5.58	
MINIMUM		0.058	0.0000	13.3	7.2	4.4	277	142	225	115	14.1	6.9	2.0	8.0	4.1	7.0	3.6	5	0.01	4.00	1.55	
AVERAGE		0.086	0.0021	14.8	7.6	5.5	277	142	225	115	15.6	7.1	3.0	8.0	4.1	7.0	3.6	5	0.04	5.25	3.73	
OF ANALYSIS		35	35	27	27	27	1	1	1	1	27	27	27	1	1	1	1	1	1	35	35	35

WEEK	BOD			TSS			CHLORINE			WEEKLY COLIFORM	
	mg/l	lbs	lbs	mg/l	lbs	lbs	mg/l	lbs	lbs	Geo. Mean	
1							0.02	4.50		5	
2	7	4	4	8	4	4	0.09	4.96			
3							0.05	4.79			
4							0.02	5.57			
5							0.04	6.43			
MAX	7	4	4	8	4	4	0.09	6.43		5	

% REMOVAL	
B.O.D.	97
S.S.	99

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

COMMENTS:

Permit number: AKG-57-1000-013 Expires: July 20, 2009 Submit this report to: ADEC and EPA to the addresses on Part D 11 of the NPDES general permit. ADEC File number: 1513.45.009

Applicant Name: City and Borough of Juneau  
 Address: 155 South Seward, Juneau, AK 99801  
 Facility: Auke Bay Wastewater Treatment Facility  
 Location: Auke Bay, Juneau  
 Responsible party: Tom Trego/WW Utilities Superintendent  
 Phone / email: (907)586-0393  
 Onsite Contact: Nathan McCombs  
 Phone: (907)586-0393

Required Reporting Frequency Monthly  
 Discharge: Secondary treated wastewater discharged into Auke Bay  
 From: 8 To: 9  
 Sample Period 26 29 2012 2012

Parameter	Min. Value	Average	7 day Average	Max. Value	Number of Analyses	Number of Violations	Units	Frequency of Analysis	Sample Method
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Flow Rate (effluent or influent)	Estim'd/Measure	0.086	0.140	0.16	35	0	report	report	report
Biochemical Oxygen Demand (influent)	Analytical Results	225	225	225	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Biochemical Oxygen Demand (effluent)	Analytical Results	N/A	7	7	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Biochemical Oxygen Demand (influent)	Analytical Results	7	7	7	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Biochemical Oxygen Demand (effluent)	Analytical Results	N/A	30	45	60	1	report <td>report <td>report</td> </td>	report <td>report</td>	report
Biochemical Oxygen Demand % removal	Analytical Results	97	97	97	0	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids (influent)	Analytical Results	277	277	277	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids (effluent)	Analytical Results	8	8	8	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids (effluent)	Analytical Results	30	45	60	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids (effluent)	Analytical Results	4	4	4	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids (effluent)	Analytical Results	N/A	40	60	80.1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids % removal	Analytical Results	85%	85%	85%	0	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Suspended Solids (effluent)	Analytical Results	5	5	5	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Fecal Coliform Bacteria (effluent)	Analytical Results	200	N/A	800	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Dissolved Oxygen (effluent)	Analytical Results	2.0	2.0	2.0	27	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Dissolved Oxygen (effluent)	Analytical Results	6.86	7.3	9.0	27	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
pH (effluent)	Analytical Results	N/A	N/A	N/A	28	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Total Residual Chlorine (effluent)	Analytical Results	0.04	0.23	0.23	28	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report
Permit Limits	Permit Limits	N/A	N/A	N/A	1	0 <td>report <td>report <td>report</td> </td></td>	report <td>report <td>report</td> </td>	report <td>report</td>	report

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, 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.

NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER  
 Nathan McCombs Wastewater Treatment Supervisor  
 SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 DATE 10-11-12 TELEPHONE 907-586-0393  
 COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ALL ATTACHMENT HERE)  
 CHECK HERE IF THERE WAS NO DISCHARGE DURING THE ENTIRE REPORTING PERIOD



Permit number: AKG-57-1000-013 Expires: July 20, 2009 Submit this report to: NPDES general permit.

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 Phone: (907)586-0393

Required Reporting Frequency Monthly  
 Discharge: Secondary treated wastewater discharged into Auke Bay  
 From: 8 To: 9  
 Sample Period 26 29  
 2012 2012

Parameter	Min. Value	30 day Average	7 day Average	Max. Value	Number analyses	Number violations	Units	Frequency of Analysis	Sample Method
Fecal Coliform (Edge of MZ)	N/A	14	N/A	43	0	report	#/100 ml	Twice per year - 2/year	Grab
Fecal Coliform	Analytical Results				0	report	#/100 ml	Twice per year - 2/year	Grab
Bacteria (Shortline)	Permit Limits	N/A	N/A	NA	report	report			Grab
Dissolved Oxygen	Analytical Results				0	report	mg/l	Upon request by ADEC	Grab
pH	Analytical Results				0	report	Std Units	Upon request by ADEC	Grab
Total Chlorine (if chlorine is used as disinfectant)	Analytical Results				0	report	mg/l	Twice per year - 2/year	Grab
	Permit Limits	6.5	N/A	N/A	8.5	report			Grab
	Analytical Results					report			Grab
	Permit Limits	N/A	N/A	N/A	0.0075	report			Grab

Mixing Zone

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NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER  
 Nathan McCombs Wastewater Treatment Supervisor  
 SIGNATURE OF PRINCIPAL, EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 DATE 7-11-12 TELEPHONE 907-586-0393

COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ATTACHMENT HERE)

CHECK HERE IF THERE WAS NO DISCHARGE DURING THE ENTIRE REPORTING PERIOD