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R.W.Q.C.B. NORTH COAST REGION  
5550 SKYLANE BLVD., SUITE A  
SANTA ROSA, CA 95403

January 25, 2016

**RE: MONTHLY MONITORING REPORT**

Dear Justin:

Enclosed is the Monthly Monitoring Report for December 2015 for McKinleyville Community Services District Wastewater Management Facilities WDID NO. 1B82084OHUM, operating under Order Number WQ 2011-0008-DWQ.

The normal discharge of effluent was 31 days to Discharge Point 002, 004 and 001. The required monitoring and water quality constituents that were tested and reported were in compliance in December.

The requirement for BOD is 45 mg/L, 604 lbs/day and 65% removal for the monthly average with five weekly tests in December that represent thirteen criteria. The BOD results for December are in compliance.

The requirement for TSS is 83 mg/L, 1108 lbs/day and 65% removal for the monthly average with five weekly tests in December which represent three criteria. The TSS results for December are in compliance.

The requirement for Nitrate as Nitrogen in the effluent is a monthly average of 10 mg/L. One test was conducted in December and was in compliance.

Total Coliform Organisms MPN/100 ml. The Monthly Median not to exceed MPN of 23 and the daily maximum not to exceed MPN of 230. The reported results for the month of December are as follows. Median was <1.8 and a Maximum of 2. Four samples were collected in the month of December and were in compliance.

Monthly River Monitoring was conducted in December.

Acute testing for December was conducted using Rainbow Trout and C.Dubia. Rainbow Trout had an 85% survival and C.Dubia had a 100% survival.

Semi-annual testing was conducted in December

WWMF Upgrade Status: The District entered into contract with Auburn Constructors as the General on the Upgrade Project. The State Revolving Fund has accepted the qualifications in the bids received. A ground breaking ceremony was held in January. Contractors have 521 days to complete the project. Staff and engineers are still working on the NPDES permit renewal.

# McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

DECEMBER 2015

Dischrange Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
	DATE	INFLUENT	EFFLUENT	MAXIMUM	N.POND	S.POND	FISCHER	FISCHER	PIALORSI	HILLER	IRRGATE
		MGD	MGD	GPM	MGD	MGD	MGD UPPER	MGD LOWER	MGD	MGD	TOTAL MGD
1	0.775	1.542	1082			1.542				1.542	0.000
2	0.792	1.524	1206			1.524				1.524	0.000
3	0.850	1.477	1038			1.477				1.477	0.000
4	0.836	1.132	1030		0.424	0.708				0.708	0.000
5	0.837	0.756	533		0.756					0.000	0.000
6	0.896	0.738	519		0.738					0.000	0.000
7	0.821	0.992	848		0.296					0.000	0.696
8	0.810	0.954	842							0.000	0.954
9	0.968	0.834	655							0.000	0.834
10	0.961	0.849	726							0.000	0.849
11	1.089	1.203	1091							0.000	1.203
12	1.094	1.552	1089							0.000	1.552
13	1.525	1.643	1224							0.000	1.643
14	1.230	1.695	1240							0.000	1.695
15	1.088	1.664	1179							0.000	1.664
16	1.021	1.663	1176							0.000	1.663
17	1.045	1.291	1161							0.000	1.291
18	1.345	1.575	1540							0.000	1.575
19	1.332	2.186	1538							0.000	2.186
20	1.270	2.028	1540							0.000	2.028
21	1.411	1.895	1423							0.000	1.895
22	1.389	1.904	1389							0.000	1.904
23	1.322	2.060	1500							0.000	2.060
24	1.467	2.106	1479							0.000	2.106
25	1.406	2.111	1492							0.000	2.111
26	1.267	2.133	1504							0.000	2.133
27	1.254	2.137	1497							0.000	2.137
28	1.259	1.631	1491							0.000	1.631
29	1.177	1.043	758							0.000	1.043
30	1.219	1.291	1176							0.000	1.291
31	1.129	1.459	1141							0.000	1.459
TOTAL	34.885	47.068		0.000	2.214	5.251	0.000	0.000	0.000	5.251	39.603
AVERAGE	1.125	1.518	1165	0.000	0.554	0.000	0.000	0.000	0.000	0.169	1.278
MAXIMUM	1.525	2.186	1540	0.000	0.756	1.542	0.000	0.000	0.000	1.542	2.186
MINIMUM	0.775	0.738	519	0.000	0.296	0.708	0.000	0.000	0.000	0.000	0.000
DAYS	31	31		0	4	4	0	0	0	4	25
DAYS WITH NO DISCHARGE = 0											

McKINLEYVILLE COMMUNITY SERVICES DISTRICT  
WASTEWATER MANAGEMENT FACILITY  
RIVER CFS - EFFLUENT FLOWS -

M-004

RIVER DILUTION

M-005

M-006

DECEMBER 2015

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100:1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	0.775	1.542	1082		1.542					
2	0.792	1.524	1206		1.524					
3	0.850	1.477	1038		1.477					
4	0.836	1.132	1030	0.424	0.708					
5	0.837	0.756	533	0.756						
6	0.896	0.738	519	0.738						
7	0.821	0.992	848	0.296		0.696	521	4417	984	7361
8	0.810	0.954	842			0.954	301	2532	564	4219
9	0.968	0.834	655			0.834	685	4489	1000	7481
10	0.961	0.849	726			0.849	2387	17326	3860	28877
11	1.089	1.203	1091			1.203	1823	19884	4430	33141
12	1.094	1.552	1089			1.552	1521	16563	3690	27605
13	1.525	1.643	1224			1.643	2886	35325	7870	58875
14	1.230	1.695	1240			1.695	2052	25450	5670	42417
15	1.088	1.664	1179			1.664	1020	12029	2680	20049
16	1.021	1.663	1176			1.663	702	8259	1840	13765
17	1.045	1.291	1161			1.291	599	6957	1550	11596
18	1.345	1.575	1540			1.575	1055	16249	3620	27081
19	1.332	2.186	1538			2.186	1976	30388	6770	50646
20	1.270	2.028	1540			2.028	968	14902	3320	24837
21	1.411	1.895	1423			1.895	1025	14588	3250	24313
22	1.389	1.904	1389			1.904	4847	67329	15000	112215
23	1.322	2.060	1500			2.060	3591	53863	12000	89772
24	1.467	2.106	1479			2.106	2692	39814	8870	66356
25	1.406	2.111	1492			2.111	2163	32273	7190	53788
26	1.267	2.133	1504			2.133	1322	19884	4430	33141
27	1.254	2.137	1497			2.137	956	14319	3190	23864
28	1.259	1.631	1491			1.631	864	12882	2870	21470
29	1.177	1.043	758			1.043	1457	11042	2460	18403
30	1.219	1.291	1176			1.291	828	9740	2170	16234
31	1.129	1.459	1141			1.459	724	8259	1840	13765

TOTAL	34.885	47.068		2.214	5.251	39.603				
AVERAGE	1.125	1.518	1165	0.554	1.313	1.584	1559	19951	4445	33251
MAXIMUM	1.525	2.186	1540	0.756	1.542	2.186	4847	67329	15000	112215
MINIMUM	0.775	0.738	519	0.296	0.708	0.696	301	2532	564	4219
DAYS	31	31	31	4	4					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 6

McKINLEYVILLE COMMUNITY SERVICES DISTRICT  
WASTEWATER MANAGEMENT FACILITY  
MONITORING DATA

YEAR: 2015

MONTH: DECEMBER

DATE	INFLUENT FLOW		EFFLUENT FLOW		EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING							3X5 TOTAL COLIFORM		
	M.G.D.	M.G.D.	M.G.D.	GPM			B.O.D. mg/L	N.F.R. mg/L	pH	TEMP (C°)	B.O.D. mg/L	NFR mg/L	AMMONIA	CL <sub>2</sub> RES.	CL <sub>2</sub> RES.	RIVER CL <sub>2</sub> RES.	SETTLABLE SOLIDS	
1	0.775	1.542		1082					7.0	10.9			32	6.5				
2	0.792	1.524		1206					7.2	11.3			36	6.7				
3	0.850	1.477		1038					7.3	12.5			34	5.8				
4	0.836	1.132		1030			270	190	7.1	11.3	38	31	34	5.7			<0.1	
5	0.837	0.756		533														
6	0.896	0.738		519														
7	0.821	0.992		848		984	Started discharge to River		7.2	13.2			32	2.8	0.00		<1.8	
8	0.810	0.954		842		564			7.1	13.7				34	6.9	0.00		
9	0.968	0.834		655		1000			7.2	13.7				32	1.6	0.00		
10	0.961	0.849		726		3860			7.1	13.0			34	1.4	0.00			
11	1.089	1.203		1091		4430		160	7.0	13.0	19	15	32	2.0	0.00		<.01	
12	1.094	1.552		1089		3690			7.4	12.4				0.2	0.00			
13	1.525	1.643		1224		7870			7.2	12.2				0.5	0.00			
14	1.230	1.695		1240		5670			7.4	12.2			32	2.0	0.00		<1.8	
15	1.088	1.664		1179		2680			7.2	11.0			32	2.8	0.00			
16	1.021	1.663		1176		1840			7.3	10.6			32	2.4	0.00			
17	1.045	1.291		1161		1550			7.4	11.0			32	3.0	0.00			
18	1.345	1.575		1540		3620		220	7.2	12.1	40	41	34	2.1	0.00		<.01	
19	1.332	2.186		1538		6770			7.3	11.2				3.8	0.00			
20	1.270	2.028		1540		3320			7.3	10.7				3.4	0.00			
21	1.411	1.895		1423		3250			7.4	11.8			28	3.3	0.00		<1.8	
22	1.389	1.904		1389		15000		96	7.3	11.1	29	23	32	3.3	0.00			
23	1.322	2.060		1500		12000			7.4	11.3			32	3.0	0.00		<0.1	
24	1.467	2.106		1479		8870			7.6	11.2				1.6	0.00			
25	1.406	2.111		1492		7190			7.5	11.3				0.9	0.00			
26	1.267	2.133		1504		4430			7.1	11.0				1.5	0.00			
27	1.254	2.137		1497		3190			7.0	10.5				1.8	0.00			
28	1.259	1.631		1491		2870			6.9	10.6			28	2.8	0.00		2	
29	1.177	1.043		758		2460		160	7.0	10.3	28	30	28	2.2	0.00			
30	1.219	1.291		1176		2170			7.3	9.9			28	0.7	0.00			
31	1.129	1.459		1141		1840			7.4	9.6			28	1.5	0.00		<0.1	

SPILLS:

None to report
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MONTHLY TESTS	
TDS	290
AMMONIA	44.0
NITRATE	ND
BORON	250

Semi-Annual Tests	
Bis phthalate	Value in ug/l
alpha-BHC	Lab error
4,4'-DDT	ND
carbon tetrachloride	ND

ACUTE TOXICITY	
DATE	% Survival
12/9/2015	85%
12/9/2015	100%

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
La	TUc

Total Coliform	Monthly
Median	<1.8
Daily	Maximum
	2

SIGNATURE:

REMARKS: Lab error on EPA 625 SVOCS. A new sample was sent overnight and they had error in that sample also. La  
We have sent a 3rd sample but have not received results.

Indicates Permit Exceedance