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

April 24, 2014

**RE: MONTHLY MONITORING REPORT**

Dear Lisa:

Enclosed is the Monthly Monitoring Report for March 2014 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 30 days discharge to Discharge Location 001 Mad River. The required monitoring and water quality constituents that were tested and reported were in compliance in March.

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

The requirement for TSS is 83 mg/L, 1108 lbs/day and a minimum of 65% removal for the monthly average with four weekly tests in March which represent three criteria. The TSS results for March 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 March 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 March are as follows. Median was <1.8 and a Maximum of <1.8. Five samples were collected in the month of March and were in compliance.

Monthly River Monitoring was conducted in March.

Acute Toxicity testing was conducted in March. The result for Rainbow Trout was 95% survival and the survival of C. dubia was 85%. Monthly testing was in compliance.

Annual Chronic testing was conducted in March.



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

M-004

RIVER DILUTION

M-005

M-006

MARCH 2014

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	0.901	1.085	773			1.085	426	3295	734	5491
2	0.940	1.082	760			1.082	360	2738	610	4563
3	0.951	1.122	823			1.122	384	3160	704	5267
4	0.920	1.163	819			1.163	2121	17371	3870	28951
5	0.929	1.166	820			1.166	1067	8753	1950	14588
6	0.900	1.113	810			1.113	1690	13690	3050	22817
7	0.874	1.262	1014			1.262	1151	11670	2600	19451
8	0.910	1.434	1003			1.434	998	10010	2230	16683
9	1.227	1.414	998			1.414	935	9336	2080	15560
10	1.229	0.562	952			0.562	6554	62392	13900	103986
11	1.063	0.000	0			0.000		27380	6100	45634
12	1.002	0.804	906			0.804	1749	15845	3530	26408
13	0.981	1.075	920			1.075	1249	11491	2560	19151
14	0.934	1.067	1016			1.067	870	8843	1970	14738
15	0.970	1.437	1009			1.437	712	7182	1600	11970
16	0.998	1.432	1013			1.432	598	6060	1350	10099
17	0.939	1.429	1000			1.429	548	5476	1220	9127
18	0.909	1.433	1016			1.433	473	4803	1070	8005
19	0.915	1.422	1003			1.422	432	4331	965	7219
20	0.898	1.207	1003			1.207	394	3954	881	6591
21	0.875	1.116	843			1.116	290	2442	544	4070
22	0.901	1.207	852			1.207	219	1863	415	3105
23	0.976	1.211	881			1.211	190	1670	372	2783
24	0.898	1.205	845			1.205	178	1508	336	2514
25	0.896	1.199	843			1.199	175	1477	329	2461
26	0.957	1.058	841			1.058	273	2294	511	3823
27	0.929	0.890	658			0.890	941	6194	1380	10324
28	1.066	0.924	673			0.924	747	5027	1120	8379
29	1.158	0.909	839			0.909	4087	34293	7640	57155
30	1.113	0.902	636			0.902	4764	30298	6750	50497
31	1.054	0.908	641			0.908	3053	19570	4360	32617

TOTAL	30.213	34.238		0.000	0.000	34.238				
AVERAGE	0.975	1.104	845	0.000	0.000	1.104	1254	11110	2475	18517
MAXIMUM	1.229	1.437	1016	0.000	0.000	1.437	6554	62392	13900	103986
MINIMUM	0.874	0.000	0	0.000	0.000	0.000	175	1477	329	2461
DAYS	31	30	30	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT  
WASTEWATER MANAGEMENT FACILITY  
MONITORING DATA

YEAR: 2014

MONTH: MARCH

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING							3X5 TOTAL COLIFORM			
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL₂ RES.	RIVER CL₂ RES		SETTLABLE SOLIDS		
1	0.901	1.085	773	734			6.8	12.2				4.6	0.00				
2	0.940	1.082	760	610			6.8	13.2				3.1	0.00				
3	0.951	1.122	823	704			6.8	13.8				30	2.0	0.00		<1.8	
4	0.920	1.163	819	3870			6.9	13.7				32	1.2	0.00			
5	0.929	1.166	820	1950			6.7	13.9				36	1.3	0.00			
6	0.900	1.113	810	3050			6.8	13.9				36	1.0	0.00			
7	0.874	1.262	1014	2600		220	6.8	13.7	29	21		28	4.7	0.00	<0.1		
8	0.910	1.434	1003	2230			7.3	14.1				0.6	0.00				
9	1.227	1.414	998	2080			7.0	14.8				1.2	0.00				
10	1.229	0.562	952	13900			6.8	14.4				32	2.8	0.00		<1.8	
11	1.063	0.000	0	6100			Washed CCB										
12	1.002	0.804	906	3530			6.9	13.8				34	3.2	0.00			
13	0.981	1.075	920	2560			6.9	13.0				32	1.1	0.00			
14	0.934	1.067	1016	1970		260	6.8	13.0	26	21		34	3.1	0.00	<0.1		
15	0.970	1.437	1009	1600			7.0	14.2				0.1	0.00				
16	0.998	1.432	1013	1350			7.0	14.1				0.7	0.00				
17	0.939	1.429	1000	1220			7.1	13.5				32	3.8	0.00		<1.8	
18	0.909	1.433	1016	1070			7.0	13.0				26	1.6	0.00			
19	0.915	1.422	1003	965			6.9	13.0				34	3.9	0.00			
20	0.898	1.207	1003	881			7.0	13.4				26	5.1	0.00			
21	0.875	1.116	843	544		260	6.9	12.6	19	18		34	4.7	0.00	<0.1		
22	0.901	1.207	852	415			6.9	12.8				2.1	0.00				
23	0.976	1.211	881	372			6.9	13.0				1.8	0.00				
24	0.898	1.205	845	336			6.8	13.0				32	1.0	0.00		<1.8	
25	0.896	1.199	843	329			6.9	13.0				34	1.0	0.00			
26	0.957	1.058	841	511			6.8	14.1				34	0.4	0.00			
27	0.929	0.890	658	1380			6.9	13.4				34	2.9	0.00			
28	1.066	0.924	673	1120		230	6.8	13.8	16	19		38	3.8	0.00	<0.1		
29	1.158	0.909	839	7640			7.3	14.9				6.3	0.00				
30	1.113	0.902	636	6750			6.9	13.7					0.8	0.00			
31	1.054	0.908	641	4360			6.9	13.5				34	2.8	0.00		<1.8	

SPILLS:

None to report

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
3/31/2014	250	30.0	ND	250

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

Quarterly Tests		Value in ug/l
Dichlorobromomethane		NA
Bromoform		NA
Chlorodibromomethane		NA
Chloroform		NA

30 DAY AVERAGE

BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
23	209	91	20	180	92

ACUTE TOXICITY

DATE	% Survival
3/4/2014	95%
3/4/2014	85%

Rainbow Trout  
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	1.3
C. Dubia	1.3
Algae	1.3
	TUc

Total Coliform

Monthly

MEDIAN

<1.8

Daily

Maximum

<1.8

SIGNATURE:

REMARKS:

Indicates Permit Exceedance