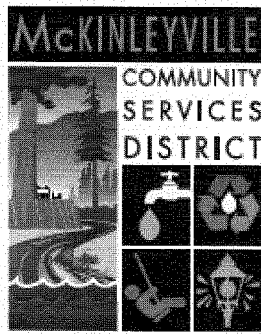


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R.W.Q.C.B. NORTH COAST REGION  
5550 SKYLANE BLVD., SUITE A  
SANTA ROSA, CA 95403

January 20, 2014

**RE: MONTHLY MONITORING REPORT**

Dear Charles:

Enclosed is the Monthly Monitoring Report for December 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 Monitoring Location M-002. 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 <1.8. Five 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 a 100% survival and C.Dubia had an 85% survival. The 2 November follow up testing meeting the 14 day and 21 day deadline which are serving as a dual sample with the December testing have been sent to the lab. The 14 day sample came back with a C.Dubia survival of 85% and a Rainbow Trout survival of 100%. The 21 day sample results came back with a C.Dubia survival rate of 100%. Report has not been mailed yet. Staff conducted a third sample for the November retest and was just notified that the test was voided due to Lab Control failure. Staff is sending another sample in on January 26 to replace the voided sample.

WWMF Upgrade Status: Kennedy/Jenks is working on the final draft. Once completed, the District will review and send back comments. Pond 1A has been 99% drained.

Semi-annual Pollutants of Concern were tested in November and results will be submitted with the December report.

Quarterly testing was conducted in October and results will be submitted with the December 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, 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."

If you have any questions, please contact this office.

---

GREGORY P. ORSINI, GENERAL MANAGER

ENCLOSURES

FILE

# McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

DECEMBER 2014

Discharge 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 MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.889	0.925	1041							0.000	0.925
2	0.867	0.000	0	Washed CCB						0.000	0.000
3	0.908	0.520	967							0.000	0.520
4	0.871	0.723	516							0.000	0.723
5	0.927	1.137	1135							0.000	1.137
6	1.061	1.674	1187							0.000	1.674
7	1.036	1.703	1196							0.000	1.703
8	0.956	1.701	1194							0.000	1.701
9	0.927	1.703	1198							0.000	1.703
10	1.010	1.672	1175							0.000	1.672
11	1.163	1.145	1141							0.000	1.145
12	1.135	0.993	857							0.000	0.993
13	1.086	1.219	863							0.000	1.219
14	1.095	1.220	856							0.000	1.220
15	1.040	1.218	856							0.000	1.218
16	1.006	1.223	860							0.000	1.223
17	1.111	1.327	1003							0.000	1.327
18	1.063	1.220	1005							0.000	1.220
19	1.147	1.432	1215							0.000	1.432
20	1.375	1.716	1215							0.000	1.716
21	1.753	1.779	1361							0.000	1.779
22	1.478	1.934	1356							0.000	1.934
23	1.302	2.106	1767							0.000	2.106
24	1.327	2.500	1772							0.000	2.500
25	1.237	2.441	1727							0.000	2.441
26	1.177	2.479	1852							0.000	2.479
27	1.148	2.341	1699							0.000	2.341
28	1.141	2.222	1585							0.000	2.222
29	1.116	1.496	1451							0.000	1.496
30	1.069	1.553	1592							0.000	1.553
31	1.070	1.778	1303							0.000	1.778
TOTAL	34.491	47.100		0.000	0.000	0.000	0.000	0.000	0.000	0.000	47.100
AVERAGE	1.113	1.519	1192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.519
MAXIMUM	1.753	2.500	1852	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.500
MINIMUM	0.867	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	30		0	0	0	0	0	0	0	30
DAYS WITH NO DISCHARGE = 1											

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

M-004

RIVER DILUTION

M-005

M-006

DECEMBER 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	0.889	0.925	1041			0.925	457	4758	1060	7930
2	0.867	0	0			0.000	0	3456	770	5760
3	0.908	0.520	967			0.520	316	3057	681	5095
4	0.871	0.723	516			0.723	686	3542	789	5903
5	0.927	1.137	1135			1.137	370	4201	936	7002
6	1.061	1.674	1187			1.674	1032	12254	2730	20423
7	1.036	1.703	1196			1.703	631	7541	1680	12568
8	0.956	1.701	1194			1.701	609	7272	1620	12119
9	0.927	1.703	1198			1.703	633	7586	1690	12643
10	1.010	1.672	1175			1.672	458	5386	1200	8977
11	1.163	1.145	1141			1.145	1479	16877	3760	28129
12	1.135	0.993	857			0.993	3457	29625	6600	49375
13	1.086	1.219	863			1.219	2606	22488	5010	37480
14	1.095	1.220	856			1.220	1610	13780	3070	22967
15	1.040	1.218	856			1.218	1159	9920	2210	16533
16	1.006	1.223	860			1.223	1054	9067	2020	15112
17	1.111	1.327	1003			1.327	1190	11940	2660	19899
18	1.063	1.220	1005			1.220	1755	17640	3930	29400
19	1.147	1.432	1215			1.432	1566	19032	4240	31719
20	1.375	1.716	1215			1.716	1784	21680	4830	36133
21	1.753	1.779	1361			1.779	5870	79897	17800	133162
22	1.478	1.934	1356			1.934	3608	48926	10900	81543
23	1.302	2.106	1767			2.106	1557	27515	6130	45859
24	1.327	2.500	1772			2.500	990	17550	3910	29251
25	1.237	2.441	1727			2.441	1021	17640	3930	29400
26	1.177	2.479	1852			2.479	737	13645	3040	22742
27	1.148	2.341	1699			2.341	684	11625	2590	19376
28	1.141	2.222	1585			2.222	600	9516	2120	15860
29	1.116	1.496	1451			1.496	554	8035	1790	13391
30	1.069	1.553	1592			1.553	443	7047	1570	11745
31	1.070	1.778	1303			1.778	427	5566	1240	9276

TOTAL	34.491	47.100		0.000	0.000	47.100				
AVERAGE	1.113	1.519	1192	0.000	0.000	1.519	1269	15421	3436	25702
MAXIMUM	1.753	2.500	1852	0.000	0.000	2.500	5870	79897	17800	133162
MINIMUM	0.867	0.000	0	0.000	0.000	0.000	0	3057	681	5095
DAYS	31	30	30	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT  
WASTEWATER MANAGEMENT FACILITY  
MONITORING DATA**

MONTH: DECEMBER

YEAR: 2014

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING										SETTLABLE SOLIDS	TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL <sub>2</sub> RES.	RIVER CL <sub>2</sub> RES					
1	0.889	0.925	1041	1060			7.4	14.5					36	2.1	0.00		<1.8	
2	0.867	0.000	0	770			Washed CCB											
3	0.908	0.520	967	681			7.1	14.4					32	0.2	0.00			
4	0.871	0.723	516	789			7.1	13.7					36	1.9	0.00			
5	0.927	1.137	1135	936	230	240	7.1	14.1	14	7.6		32	3.9	0.00	<0.1			
6	1.061	1.674	1187	2730			7.2	14.7						4.2	0.00			
7	1.036	1.703	1196	1680			7.2	14.3						2.8	0.00			
8	0.956	1.701	1194	1620			7.2	15.1				32	2.8	0.00		<1.8		
9	0.927	1.703	1198	1690			7.2	15.4	2.1	34	2.1	0.00						
10	1.010	1.672	1175	1200			7.1	14.8				36	2.0	0.00				
11	1.163	1.145	1141	3760			7.3	14.8				32	2.1	0.00				
12	1.135	0.993	857	6600	280	260	7	13.9	11	14	30	2.1	0.00	<0.1				
13	1.086	1.219	863	5010			7.2	13.4						3.7	0.00			
14	1.095	1.220	856	3070			7.2	13.2						1.8	0.00			
15	1.040	1.218	856	2210			7.1	13.3				28	1.9	0.00		<1.8		
16	1.006	1.223	860	2020			7.2	13.1	1.9	28	1.9	0.00						
17	1.111	1.327	1003	2660			7.2	12.7				26	1.8	0.00				
18	1.063	1.220	1005	3930			7.3	12.5				24	1.6	0.00				
19	1.147	1.432	1215	4240	280	250	7.1	12.4	17	12	30	1.7	0.00	<0.1				
20	1.375	1.716	1215	4830			7.2	12.8						1.6	0.00			
21	1.753	1.779	1361	17800			7.2	13.1						2.0	0.00			
22	1.478	1.934	1356	10900			7.3	14.5				28	1.6	0.00		<1.8		
23	1.302	2.106	1767	6130	260	240	7.0	13.0	16	13	32	3.2	0.00	<0.1				
24	1.327	2.500	1772	3910			7.1	14.0					2.6	0.00				
25	1.237	2.441	1727	3930			7.2	12.6					2.4	0.00				
26	1.177	2.479	1852	3040			7.4	11.7			30		2.1	0.00	<0.1			
27	1.148	2.341	1699	2590			7.5	11.7						2.2	0.00			
28	1.141	2.222	1585	2120			7.7	11.5						2.3	0.00			
29	1.116	1.496	1451	1790			7.1	11.6				30	2.1	0.00		<1.8		
30	1.069	1.553	1592	1570	320	340	7.1	10.1	14	17	28	3.6	0.00					
31	1.070	1.778	1303	1240			7.5	10.0				28	2.1	0.00				

**SPILLS:**

None to report
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DATE	TDS	AMMONIA	NITRATE	BORON
12/31/2014	290	20.0	ND	280

**MONTHLY TESTS**

Semi-Annual Tests	Value in ug/l
Bis phthalate	DNQ
alph-BHC	ND
4,4'-DDT	ND
Carbon tetrachloride	DNQ

Quarterly Tests	Value in ug/l
Dichlorobromomethane	0.81
Bromoform	ND
Chlorodibromomethane	DNQ
Chloroform	11.7

**30 DAY AVERAGE**

BOD	BOD	BOD	NFR	NFR	NFR
mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
15	177	94	12	140	95

**ACUTE TOXICITY**

DATE	% Survival
12/4/2014	100%
12/4/2014	85%
12/16/2014	100%

Rainbow Trout  
C. dubia  
C. dubia

**CHRONIC TOXICITY**

TESTED	SURVIVAL
Mimnow	N/A
C. Dubia	N/A
Algae	N/A
TUc	

SIGNATURE: \_\_\_\_\_

REMARKS:

Indicates Permit Exceedance

Total Coliform

Monthly MEDIAN

<1.8

Daily

Maximum

<1.8