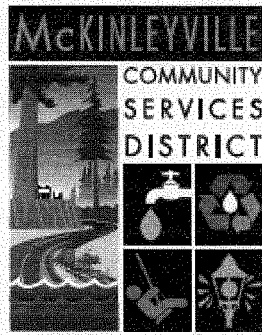


PHYSICAL ADDRESS:

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McKINLEYVILLE, CA 95519

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

January 25, 2017

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for December 2016 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 to Discharge Point 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 <1.8. Four samples were collected in the month of December and were in compliance.

Monthly River Monitoring was conducted in December.

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

WWMF Upgrade Status: Clarifier "A" and "B" were water tested and passed. The headworks and maintenance building are 85% completed. The aeration basins 1 is completed and lined. Aeration basin 2 is still under construction. The biosolids basin is lined. The rain has slowed the project down a little. Backfilling around the clarifiers is in process. Weekly meeting have been conducted with District staff, contractors, engineers and the project manager. Contractors have 521 days to complete the project. They have projected to be completed by July 2017.

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

DECEMBER 2016

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	1.002	1.547	1086							0.000	1.547
2	0.974	1.558	1093							0.000	1.558
3	0.996	1.556	1092							0.000	1.556
4	1.045	1.556	1091							0.000	1.556
5	0.973	0.669	1094							0.000	0.669
6	0.969	0.000	0	Washed CCB						0.000	0.000
7	0.961	0.653	741							0.000	0.653
8	0.999	0.961	701							0.000	0.961
9	1.120	0.418	640							0.000	0.418
10	1.329	0.448	614							0.000	0.448
11	1.248	0.876	625							0.000	0.876
12	1.142	0.897	632							0.000	0.897
13	1.103	1.234	1015							0.000	1.234
14	1.360	1.587	1299							0.000	1.587
15	1.693	1.439	1310							0.000	1.439
16	1.340	1.547	1364							0.000	1.547
17	1.268	1.968	1388							0.000	1.968
18	1.240	1.997	1408							0.000	1.997
19	1.173	2.021	1415							0.000	2.021
20	1.139	2.026	1424							0.000	2.026
21	1.112	1.437	1428							0.000	1.437
22	1.096	1.545	1354							0.000	1.545
23	1.200	1.933	1353							0.000	1.933
24	1.250	1.928	1353							0.000	1.928
25	1.129	1.837	1356							0.000	1.837
26	1.130	1.781	1252							0.000	1.781
27	1.079	1.773	1240							0.000	1.773
28	1.057	1.764	1238							0.000	1.764
29	1.033	1.471	1249							0.000	1.471
30	1.000	1.476	1269							0.000	1.476
31	1.053	1.769	1246							0.000	1.769
TOTAL	35.213	43.672		0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.672
AVERAGE	1.136	1.409	1109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.409
MAXIMUM	1.693	2.026	1428	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.026
MINIMUM	0.961	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 2016

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	1.002	1.547	1086			1.547	1219	13241	2950	22069
2	0.974	1.558	1093			1.558	924	10099	2250	16832
3	0.996	1.556	1092			1.556	740	8079	1800	13466
4	1.045	1.556	1091			1.556	617	6733	1500	11222
5	0.973	0.669	1094			0.669	611	6688	1490	11147
6	0.969	0.000	0			0.000	0	5880	1310	9800
7	0.961	0.653	741			0.653	751	5566	1240	9276
8	0.999	0.961	701			0.961	1005	7047	1570	11745
9	1.120	0.418	640			0.418	2069	13241	2950	22069
10	1.329	0.448	614			0.448	10308	63289	14100	105482
11	1.248	0.876	625			0.876	6686	41789	9310	69648
12	1.142	0.897	632			0.897	4091	25854	5760	43091
13	1.103	1.234	1015			1.234	1703	17281	3850	28802
14	1.360	1.587	1299			1.587	1327	17236	3840	28727
15	1.693	1.439	1310			1.439	6579	86181	19200	143635
16	1.340	1.547	1364			1.547	4443	60596	13500	100994
17	1.268	1.968	1388			1.968	2484	34472	7680	57454
18	1.240	1.997	1408			1.997	1635	23027	5130	38378
19	1.173	2.021	1415			2.021	1180	16698	3720	27829
20	1.139	2.026	1424			2.026	949	13511	3010	22518
21	1.112	1.437	1428			1.437	789	11266	2510	18777
22	1.096	1.545	1354			1.545	703	9516	2120	15860
23	1.200	1.933	1353			1.933	634	8573	1910	14289
24	1.250	1.928	1353			1.928	1234	16698	3720	27829
25	1.129	1.837	1356			1.837	967	13107	2920	21845
26	1.130	1.781	1252			1.781	853	10683	2380	17805
27	1.079	1.773	1240			1.773	735	9112	2030	15186
28	1.057	1.764	1238			1.764	682	8439	1880	14064
29	1.033	1.471	1249			1.471	600	7496	1670	12493
30	1.000	1.476	1269			1.476	545	6912	1540	11521
31	1.053	1.769	1246			1.769	508	6329	1410	10548

TOTAL	35.213	43.672		0.000	0.000	43.672				
AVERAGE	1.136	1.409	1109	0.000	0.000	1.409	1857	18859	4202	31432
MAXIMUM	1.693	2.026	1428	0.000	0.000	2.026	10308	86181	19200	143635
MINIMUM	0.961	0.000	0	0.000	0.000	0.000	508	5566	1240	9276
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: 2016

MONTH: DECEMBER

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	CL ₂ RES.		RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	1.002	1.547	1086	2950			7.0	11.1			32	1.9	0.00			
2	0.974	1.558	1093	2250	390	260	7.3	10.9	40	47	32	2.3	0.00	<0.1		
3	0.996	1.556	1092	1800			7.1	10.7				2.2	0.00			
4	1.045	1.556	1091	1500			7.1	11.2				2.3	0.00			
5	0.973	0.669	1094	1490			7.0	10.2			32	2.3	0.00		<1.8	
6	0.969	0.000	0	1310			Washed CCB									
7	0.961	0.653	741	1240			7.1	10.1			32	1.4	0.00			
8	0.999	0.961	701	1570			7.0	11.7			28	2.4	0.00			
9	1.120	0.418	640	2950	260	170	7.0	11.2	24	28	28	2.5	0.00	<0.1		
10	1.329	0.448	614	14100			6.8	12.0				1.9	0.00			
11	1.248	0.876	625	9310			7.0	11.2				2.4	0.00			
12	1.142	0.897	632	5760			6.9	11.4			34	1.5	0.00		<1.8	
13	1.103	1.234	1015	3850			6.9	11.2			32	1.3	0.00			
14	1.360	1.587	1299	3840			6.9	11.2			32	2.4	0.00			
15	1.693	1.439	1310	19200			6.9	11.4			32	0.3	0.00			
16	1.340	1.547	1364	13500	210	120	7.0	10.8	19	24	32	2.9	0.00	<0.1		
17	1.268	1.968	1388	7680			6.8	10.5				1.0	0.00			
18	1.240	1.997	1408	5130			7.1	10.0				2.4	0.00			
19	1.173	2.021	1415	3720			6.9	10.0			32	2.1	0.00		<1.8	
20	1.139	2.026	1424	3010			6.8	11.7			28	1.7	0.00			
21	1.112	1.437	1428	2510			6.9	9.7			30	1.9	0.00			
22	1.096	1.545	1354	2120	230	180	6.9	9.3	13	22	32	3.4	0.00	<0.1		
23	1.200	1.933	1353	1910			6.9	10.0				1.4	0.00			
24	1.250	1.928	1353	3720			6.9	9.2				1.7	0.00			
25	1.129	1.837	1356	2920			6.8	9.0				2.0	0.00			
26	1.130	1.781	1252	2380			6.8	8.4				3.1	0.00			
27	1.079	1.773	1240	2030			6.8	8.9			24	3.0	0.00		<1.8	
28	1.057	1.764	1238	1880			7.0	8.8			28	2.9	0.00			
29	1.033	1.471	1249	1670			6.8	8.9			28	3.0	0.00			
30	1.000	1.476	1269	1540	280	130	6.9	9.3	25	44	26	3.7	0.00	<0.1		
31	1.053	1.769	1246	1410			7.0	9.3				3.0	0.00			

SPILLS:

None to report

MONTHLY TESTS

DATE	TDS	AMMONIA	NITRATE	BORON
12/7/2016	250	26.0	ND	210

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

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoforn	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

30 DAY AVERAGE	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
	24	265	91	33	369	80

ACUTE TOXICITY

DATE	% Survival
12/13/2016	100%
12/13/2016	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY

TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUC

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

Indicates Permit Exceedance