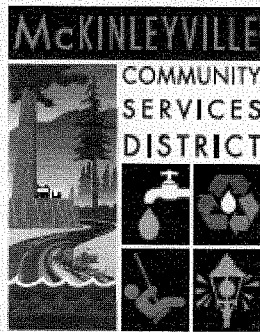


PHYSICAL ADDRESS:

1656 SUTTER ROAD
McKINLEYVILLE, CA 95519

MAILING ADDRESS:

P.O. BOX 2037
McKINLEYVILLE, CA 95519

**MAIN OFFICE:**

PHONE: (707) 839-3251
FAX: (707) 839-8456

PARKS & RECREATION OFFICE:

PHONE: (707) 839-9003
FAX: (707) 839-5964

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

December 20, 2016

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for November 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 29 days to Discharge Point 001. The required monitoring and water quality constituents that were tested and reported were in compliance in November.

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

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

Monthly River Monitoring was conducted in November.

Acute testing for November was conducted using Rainbow Trout and C.Dubia. Rainbow Trout had a 95% survival and C.Dubia had a 100% survival.

Chronic Toxicity testing was completed which did not pass. An email was sent to Justin regarding the results and asking to forgo accelerated monitoring.

Semi-annual Pollutants of Concern and Quarterly Disinfection Byproducts were conducted in November.

WWMF Upgrade Status: Clarifier "A" and "B" were water tested and passed. The headworks and maintenance building are 65% 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 June 2017.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

NOVEMBER 2016

Discharge Monitoring				002	002	004	003	006	005	001		
	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006		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	0.930	0.000	0		Washed CCB						0.000	0.000
2	0.894	1.034	1354								0.000	1.034
3	0.858	1.529	1395								0.000	1.529
4	0.825	1.664	1486								0.000	1.664
5	0.903	2.130	1494								0.000	2.130
6	0.894	1.650	1470								0.000	1.650
7	0.882	0.882	618								0.000	0.882
8	0.837	0.882	620								0.000	0.882
9	0.844	0.880	615								0.000	0.880
10	0.822	0.879	616								0.000	0.879
11	0.855	1.512	1536								0.000	1.512
12	0.882	2.186	1538								0.000	2.186
13	0.924	2.176	1531								0.000	2.176
14	0.849	2.015	1520								0.000	2.015
15	0.948	1.955	1323								0.000	1.955
16	0.912	1.416	1313								0.000	1.416
17	0.888	1.162	825								0.000	1.162
18	0.854	1.174	831								0.000	1.174
19	0.924	1.136	799								0.000	1.136
20	1.033	1.129	789								0.000	1.129
21	1.050	1.258	999								0.000	1.258
22	1.032	1.435	1012								0.000	1.435
23	1.101	1.558	1204								0.000	1.558
24	1.034	1.758	1246								0.000	1.758
25	0.974	1.817	1283								0.000	1.817
26	1.080	1.824	1279								0.000	1.824
27	1.218	1.787	1250								0.000	1.787
28	1.159	1.686	1250								0.000	1.686
29	1.096	1.528	1071								0.000	1.528
30	1.052	1.533	1076								0.000	1.533
TOTAL	28.554	43.575		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.575
AVERAGE	0.952	1.453	1111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.453
MAXIMUM	1.218	2.186	1538	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.186
MINIMUM	0.822	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	30	29		0	0	0	0	0	0	0	0	29
DAYS WITH NO DISCHARGE = 1												

McKINLEYVILLE COMMUNITY SERVICES DISTRICT

WASTEWATER MANAGEMENT FACILITY

RIVER CFS - EFFLUENT FLOWS -

M-004

RIVER DILUTION

M-005

M-006

NOVEMBER 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	0.930	0.000	0			0.000	0	17236	3840	28727
2	0.894	1.034	1354			1.034	623	8439	1880	14064
3	0.858	1.529	1395			1.529	386	5386	1200	8977
4	0.825	1.664	1486			1.664	254	3770	840	6284
5	0.903	2.130	1494			2.130	205	3066	683	5110
6	0.894	1.650	1470			1.650	318	4668	1040	7780
7	0.882	0.882	618			0.882	691	4273	952	7122
8	0.837	0.882	620			0.882	547	3393	756	5656
9	0.844	0.880	615			0.880	494	3039	677	5065
10	0.822	0.879	616			0.879	452	2783	620	4638
11	0.855	1.512	1536			1.512	170	2608	581	4346
12	0.882	2.186	1538			2.186	156	2397	534	3995
13	0.924	2.176	1531			2.176	162	2473	551	4122
14	0.849	2.015	1520			2.015	151	2303	513	3838
15	0.948	1.955	1323			1.955	190	2509	559	4182
16	0.912	1.416	1313			1.416	485	6374	1420	10623
17	0.888	1.162	825			1.162	540	4453	992	7421
18	0.854	1.174	831			1.174	412	3420	762	5701
19	0.924	1.136	799			1.136	378	3016	672	5027
20	1.033	1.129	789			1.129	876	6912	1540	11521
21	1.050	1.258	999			1.258	1379	13780	3070	22967
22	1.032	1.435	1012			1.435	1082	10952	2440	18254
23	1.101	1.558	1204			1.558	1361	16383	3650	27306
24	1.034	1.758	1246			1.758	1120	13960	3110	23266
25	0.974	1.817	1283			1.817	836	10728	2390	17880
26	1.080	1.824	1279			1.824	997	12748	2840	21246
27	1.218	1.787	1250			1.787	2984	37300	8310	62167
28	1.159	1.686	1250			1.686	2438	30478	6790	50796
29	1.096	1.528	1071			1.528	2112	22623	5040	37704
30	1.052	1.533	1076			1.533	1523	16383	3650	27306

TOTAL	28.554	43.575		0.000	0.000	43.575				
AVERAGE	0.952	1.453	1111	#DIV/0!	#DIV/0!	1.453	804	9262	2063	15436
MAXIMUM	1.218	2.186	1538	0.000	0.000	2.186	2984	37300	8310	62167
MINIMUM	0.822	0.000	0	0.000	0.000	0.000	151	2303	513	3838
DAYS	30	29	29	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: NOVEMBER

YEAR: 2016

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.	M.G.D.			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	
1	0.930	0.930	0.000	0	3840				Washed CCB							
2	0.894	1.034	1.034	1354	1880			6.8	14.5			28	1.5	0.00		
3	0.858	1.529	1.529	1395	1200			6.8	15.2			26	2.1	0.00		
4	0.825	1.664	1.664	1486	840	400	220	6.7	15.1	20	29	32	1.4	0.00	<0.1	
5	0.903	2.130	2.130	1494	683			6.9	15.4				5.1	0.00		
6	0.894	1.650	1.650	1470	1040			7.0	15.3				4.9	0.00		
7	0.882	0.882	0.882	618	952			6.8	15.0			30	0.6	0.00	<1.8	
8	0.837	0.882	0.882	620	756			6.7	15.6			30	1.9	0.00		
9	0.844	0.880	0.880	615	677			6.8	15.7			28	2.3	0.00		
10	0.822	0.879	0.879	616	620	220	140	6.7	15.5	15	17	32	1.4	0.00	<0.1	
11	0.855	1.512	1.512	1536	581			6.8	15.6			30	1.9	0.00		
12	0.882	2.186	2.186	1538	534			7.0	15.6				4.3	0.00		
13	0.924	2.176	2.176	1531	551			6.9	15.6				5.0	0.00		
14	0.849	2.015	2.015	1520	513			7.0	15.8			32	3.0	0.00	<1.8	
15	0.948	1.955	1.955	1323	559			6.9	15.8			30	2.2	0.00		
16	0.912	1.416	1.416	1313	1420			7.0	15.0			28	3.7	0.00		
17	0.888	1.162	1.162	825	992			7.0	14.3			34	4.3	0.00		
18	0.854	1.174	1.174	831	762	290	230	7.2	14.3	22	40	36	3.0	0.00	<0.1	
19	0.924	1.136	1.136	799	672			6.9	14.0				2.9	0.00		
20	1.033	1.129	1.129	789	1540			6.9	14.3				2.1	0.00		
21	1.050	1.258	1.258	999	3070			6.9	14.1			32	2.2	0.00	<1.8	
22	1.032	1.435	1.435	1012	2440			7.0	13.6			34	1.4	0.00		
23	1.101	1.558	1.558	1204	3650	170	130	6.9	13.8	16	34	32	3.1	0.00	<0.1	
24	1.034	1.758	1.758	1246	3110			6.9	13.1				2.5	0.00		
25	0.974	1.817	1.817	1283	2390			6.9	13.1				3.1	0.00		
26	1.080	1.824	1.824	1279	2840			6.9	12.7				3.2	0.00		
27	1.218	1.787	1.787	1250	8310			7.0	12.4				3.4	0.00		
28	1.159	1.686	1.686	1250	6790			6.9	12.3			32	3.6	0.00	<1.8	
29	1.096	1.528	1.528	1071	5040			7.0	11.6			32	4.4	0.00		
30	1.052	1.533	1.533	1076	3650			7.0	11.8			32	3.1	0.00		

SPILLS:

None to report

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
11/10/2016	270	31.0	ND	230

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

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

30 DAY AVERAGE

BOD mg/L	18	BOD LBS/DAY	203	BOD % Removal	93	NFR mg/L	30	NFR LBS/DAY	340	NFR % Removal	83
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ACUTE TOXICITY

DATE	% Survival
11/8/2016	95%
11/8/2016	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	2.0
C. Dubia	1.0
Algae	1.3
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS: Chronic test failed. Notified R.W.Q.C.B.

Indicates Permit Exceedance