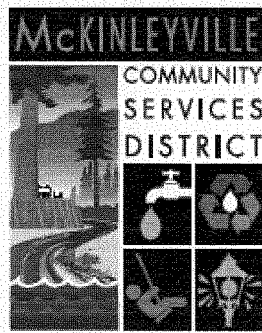


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McKINLEYVILLE, CA 95519

**MAILING ADDRESS:**

P.O. BOX 2037  
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RW.Q.C.B. NORTH COAST REGION  
5550 SKYLANE BLVD., SUITE A  
SANTA ROSA, CA 95403

February 24, 2016

**RE: MONTHLY MONITORING REPORT**

Dear Justin:

Enclosed is the Monthly Monitoring Report for January 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 January.

The requirement for BOD is 45 mg/L, 604 lbs/day and 65% removal for the monthly average with four weekly tests in January that represent eleven criteria. The BOD results for January 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 January which represent three criteria. The TSS results for January 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 January 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 January are as follows. Median was <1.8 and a Maximum of <1.8. Four samples were collected in the month of January and were in compliance.

Monthly River Monitoring was conducted in January.

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

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

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

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.

# McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

JANUARY 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	1.096	1.332	940							0.000	1.332
2	1.087	1.335	941							0.000	1.335
3	1.155	1.166	986							0.000	1.166
4	1.090	0.374	672							0.000	0.374
5	1.189	0.000	0	Washed CCB						0.000	0.000
6	1.147	0.594	862							0.000	0.594
7	1.360	1.327	1006							0.000	1.327
8	1.596	1.409	1039							0.000	1.409
9	1.763	1.365	961							0.000	1.365
10	1.830	1.370	967							0.000	1.370
11	1.650	1.365	959							0.000	1.365
12	1.405	1.365	957							0.000	1.365
13	1.220	1.339	947							0.000	1.339
14	1.236	1.343	943							0.000	1.343
15	1.238	1.336	944							0.000	1.336
16	1.276	1.314	924							0.000	1.314
17	1.834	1.323	978							0.000	1.323
18	1.641	1.397	1059							0.000	1.397
19	1.532	1.529	1079							0.000	1.529
20	1.404	1.545	1084							0.000	1.545
21	1.314	1.551	1086							0.000	1.551
22	1.356	1.794	1581							0.000	1.794
23	1.541	2.228	1589							0.000	2.228
24	1.519	2.204	1549							0.000	2.204
25	1.374	2.199	1551							0.000	2.199
26	1.301	2.132	1529							0.000	2.132
27	1.256	1.868	1472							0.000	1.868
28	1.336	1.625	1137							0.000	1.625
29	1.590	1.814	1450							0.000	1.814
30	1.560	2.091	1486							0.000	2.091
31	1.493	2.125	1503							0.000	2.125
TOTAL	43.389	45.759		0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.759
AVERAGE	1.400	1.476	1103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.476
MAXIMUM	1.834	2.228	1589	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.228
MINIMUM	1.087	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

January 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	1.096	1.332	940			1.332	769	7227	1610	12044
2	1.087	1.335	941			1.335	673	6329	1410	10548
3	1.155	1.166	986			1.166	574	5656	1260	9426
4	1.090	0.374	672			0.374	815	5476	1220	9127
5	1.189	0.000	0	Washed CCB		0.000	0	10503	2340	17506
6	1.147	0.594	862			0.594	1974	17012	3790	28353
7	1.360	1.327	1006			1.327	1624	16339	3640	27231
8	1.596	1.409	1039			1.409	1210	12568	2800	20947
9	1.763	1.365	961			1.365	1112	10683	2380	17805
10	1.830	1.370	967			1.370	1829	17685	3940	29475
11	1.650	1.365	959			1.365	1404	13466	3000	22443
12	1.405	1.365	957			1.365	1848	17685	3940	29475
13	1.220	1.339	947			1.339	2915	27605	6150	46008
14	1.236	1.343	943			1.343	3294	31061	6920	51769
15	1.238	1.336	944			1.336	3932	37121	8270	61868
16	1.276	1.314	924			1.314	3493	32273	7190	53788
17	1.834	1.323	978			1.323	3644	35639	7940	59399
18	1.641	1.397	1059			1.397	9452	100096	22300	166826
19	1.532	1.529	1079			1.529	5158	55659	12400	92764
20	1.404	1.545	1084			1.545	4224	45784	10200	76306
21	1.314	1.551	1086			1.551	3178	34517	7690	57529
22	1.356	1.794	1581			1.794	2058	32542	7250	54237
23	1.541	2.228	1589			2.228	2223	35325	7870	58875
24	1.519	2.204	1549			2.204	2550	39500	8800	65833
25	1.374	2.199	1551			2.199	2254	34966	7790	58277
26	1.301	2.132	1529			2.132	1852	28323	6310	47205
27	1.256	1.868	1472			1.868	1573	23161	5160	38602
28	1.336	1.625	1137			1.625	1642	18673	4160	31121
29	1.590	1.814	1450			1.814	1947	28233	6290	47055
30	1.560	2.091	1486			2.091	3655	54312	12100	90520
31	1.493	2.125	1503			2.125	2649	39814	8870	66356

TOTAL	43.389	45.759		0.000	0.000	45.759				
AVERAGE	1.400	1.476	1103	0.000	0.000	1.476	2436	28233	6290	47055
MAXIMUM	1.834	2.228	1589	0.000	0.000	2.228	9452	100096	22300	166826
MINIMUM	1.087	0.000	0	0.000	0.000	0.000	574	5476	1220	9127
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: JANUARY

YEAR: 2016

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 <sub>2</sub> RES.		RIVER CL <sub>2</sub> RES	SETTLABLE SOLIDS		
1	1.086	1.332	940	1610			7.3	9.1					2.3	0.00			
2	1.087	1.335	941	1410			7.0	8.3					3.2	0.00			
3	1.155	1.166	986	1260			7.1	8.7					5.0	0.00			
4	1.090	0.374	672	1220			7.3	9.1					3.5	0.00			<1.8
5	1.189	0.000	0	2340								32					
6	1.147	0.594	862	3790			7.1	10.1					3.4	0.00			
7	1.360	1.327	1006	3640			7.2	10.4					1.8	0.00			
8	1.596	1.409	1039	2800		190	7.2	10.3	19		14		8.8	0.00		<0.1	
9	1.763	1.365	961	2380			7.2	10.6					3.7	0.00			
10	1.830	1.370	967	3940			7.2	10.0					3.6	0.00			
11	1.650	1.365	959	3000			7.2	10.7					2.7	0.00			<1.8
12	1.405	1.365	957	3940			7.2	12.2					2.2	0.00			
13	1.220	1.339	947	6150			7.3	11.7					1.5	0.00			
14	1.236	1.343	943	6920			7.0	11.3					2.9	0.00			
15	1.238	1.336	944	8270		250	7.2	10.9	22		18		1.8	0.00		<0.1	
16	1.276	1.314	924	7190			7.2	11.7					2.6	0.00			
17	1.834	1.323	978	7940			7.2	12.8					2.1	0.00			
18	1.641	1.397	1059	22300			7.2	12.3					2.8	0.00			<1.8
19	1.532	1.529	1079	12400			7.1	12.7					2.6	0.00			
20	1.404	1.545	1084	10200			6.9	11.5					2.8	0.00			
21	1.314	1.551	1086	7690			7.0	13.5	27		15		2.1	0.00			
22	1.356	1.794	1581	7250		180	7.0	12.3					0.9	0.00		<0.1	
23	1.541	2.228	1589	7870			6.9	12.3					2.2	0.00			
24	1.519	2.204	1549	8800			7.1	12.3					3.0	0.00			
25	1.374	2.199	1551	7790			6.8	12.6					1.6	0.00			<1.8
26	1.301	2.132	1529	6310			7	12.9					0.9	0.00			
27	1.256	1.868	1472	5160			6.9	13.5					0.8	0.00			
28	1.336	1.625	1137	4160			6.9	13.4					0.8	0.00		<0.1	
29	1.590	1.814	1450	6290		160	6.7	13.6	22		15		1.6	0.00			
30	1.560	2.091	1486	12100			7.0	12.8					2.6	0.00			
31	1.493	2.125	1503	8870			7.1	11.4					3.7	0.00			

SPILLS:									
None to report									
30 DAY AVERAGE									
BOD mg/L	23	BOD LBS/DAY	288	BOD % Removal	89	NFR mg/L	16	NFR LBS/DAY	197
									92

None to report

Quarterly Tests		Value in ug/l
Dichlorobromomethane	DNQ	
Bromomethane	ND	
Chlorodibromomethane	ND	
Chloroform	1.21	

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

ACUTE TOXICITY		% Survival
DATE	1/19/2016	100%
Rainbow Trout	1/19/2016	100%
C. dubia		

CHRONIC TOXICITY		SURVIVAL
TESTED	Minnow	4
	C. Dubia	13
	Algae	1
		TUc

Total Coliform Monthly MEDIAN	<1.8
Daily Maximum	<1.8

REMARKS: Failed to pass Chronic Toxicity testing. Justing was notified by email and voicemail.

SIGNATURE: