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

June 24, 2016

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for May 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 13 days to Discharge Point 001 and 18 days to Discharge Points 002, 004, 005 and 006. The required monitoring and water quality constituents that were tested and reported were in compliance in May.

The requirement for BOD is 45 mg/L, 604 lbs/day and 65% removal for the monthly average with four weekly tests in May that represent eleven criteria. The BOD results for May 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 May which represent three criteria. The TSS results for May 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 May 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 April are as follows. Median was <1.8 and a Maximum of 4.5. Five samples were collected in the month of May and were in compliance.

Monthly River Monitoring was conducted in May.

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

WWMF Upgrade Status: The Clarifier concrete is being poured in stages. The Contractors have stopped pumping down the ground water due to dry weather. Electrical conduits have been installed. The fill is being placed and compacted in the pond bottom. 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 February 2017.

Discharge to the River (Point 001) stopped on May 13th and land discharge began.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

MAY 2016

Discharge				002	002	004	003	006	005	001	
Monitoring	M-INF	M-001		M-003	M-003	M-005	M-004	M-007	M-006		
DATE	INFLUENT	EFFLUENT	MAXIMUM	N.POND	S.POND	FISCHER	FISCHER	PIALORSI	HILLER	IRRGATE	
	MGD	MGD	GPM	MGD	MGD	MGD	MGD	MGD	MGD	TOTAL	
						UPPER	LOWER			MGD	
1	1.388	1.323	933							0.000	1.323
2	1.324	0.555	927							0.000	0.555
3	1.282	0.000	0	Washed CCB						0.000	0.000
4	1.263	0.652	780							0.000	0.652
5	1.296	1.162	881							0.000	1.162
6	1.251	1.251	888							0.000	1.251
7	1.289	1.240	879							0.000	1.240
8	1.321	1.247	885							0.000	1.247
9	1.264	1.232	873							0.000	1.232
10	1.231	1.329	980							0.000	1.329
11	1.235	1.392	975							0.000	1.392
12	1.231	1.392	975							0.000	1.392
13	1.198	0.938	979	0.257		Ended river discharge				0.000	0.681
14	1.235	0.458	326	0.458						0.000	0.000
15	1.300	0.458	327	0.458						0.000	0.000
16	1.215	0.450	531	0.178		0.180			0.092	0.272	0.000
17	1.204	0.598	649			0.430			0.168	0.598	0.000
18	1.192	0.865	1032			0.701			0.164	0.865	0.000
19	1.203	1.293	1147			1.109			0.184	1.293	0.000
20	1.165	1.185	1161	0.369		0.723			0.093	0.816	0.000
21	1.207	0.665	473	0.665						0.000	0.000
22	1.246	0.663	474	0.663						0.000	0.000
23	1.191	1.074	1391	0.255		0.730			0.089	0.819	0.000
24	1.168	1.666	1433			1.500			0.166	1.666	0.000
25	1.153	1.605	1412			1.436			0.169	1.605	0.000
26	0.827	1.631	1473			1.316		0.145	0.170	1.631	0.000
27	0.819	1.525	1485	0.480		0.815		0.143	0.087	1.045	0.000
28	0.801	0.860	616	0.860						0.000	0.000
29	0.797	0.853	610	0.853						0.000	0.000
30	0.874	0.846	611	0.846						0.000	0.000
31	0.835	1.157	1397	0.330		0.594		0.142	0.091	0.827	0.000
TOTAL	36.005	31.565		6.672	0.000	9.534	0.000	0.430	1.473	11.437	13.456
AVERAGE	1.161	1.018	887	0.000	0.000	0.867	0.000	0.143	0.000	0.369	0.434
MAXIMUM	1.388	1.666	1485	0.860	0.000	1.500	0.000	0.145	0.184	1.666	1.392
MINIMUM	0.797	0.000	0	0.178	0.000	0.180	0.000	0.142	0.087	0.000	0.000
DAYS	31	30		13	0	11	0	3	11	19	12
DAYS WITH NO DISCHARGE = 1											

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

MAY 2016

M-004

RIVER DILUTION

M-005

M-006

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	1.388	1.323	933			1.323	313	2922	651	4870
2	1.324	0.555	927			0.555	283	2626	585	4376
3	1.282	0.000	0		washed ccb	0.000	#DIV/0!	2509	559	4182
4	1.263	0.652	780			0.652	295	2303	513	3838
5	1.296	1.162	881			1.162	259	2285	509	3808
6	1.251	1.251	888			1.251	251	2231	497	3718
7	1.289	1.240	879			1.240	290	2550	568	4249
8	1.321	1.247	885			1.247	271	2397	534	3995
9	1.264	1.232	873			1.232	264	2303	513	3838
10	1.231	1.329	980			1.329	224	2199	490	3666
11	1.235	1.392	975			1.392	221	2150	479	3583
12	1.231	1.392	975			1.392	213	2074	462	3456
13	1.198	0.938	979	0.257		0.681	210	2056	458	3426
14						0.000	#DIV/0!	0		0
15						0.000	#DIV/0!	0		0
16						0.000	#DIV/0!	0		0
17						0.000	#DIV/0!	0		0
18						0.000	#DIV/0!	0		0
19						0.000	#DIV/0!	0		0
20						0.000	#DIV/0!	0		0
21						0.000	#DIV/0!	0		0
22						0.000	#DIV/0!	0		0
23						0.000	#DIV/0!	0		0
24						0.000	#DIV/0!	0		0
25						0.000	#DIV/0!	0		0
26						0.000	#DIV/0!	0		0
27						0.000	#DIV/0!	0		0
28						0.000	#DIV/0!	0		0
29						0.000	#DIV/0!	0		0
30						0.000	#DIV/0!	0		0
31						0.000	#DIV/0!	0		0

TOTAL	16.573	13.713		0.257	0.000	13.456				
AVERAGE	1.275	1.055	843	0.257	0.000	0.434	#DIV/0!	987	524	1645
MAXIMUM	1.388	1.392	980	0.257	0.000	1.392	#DIV/0!	2922	651	4870
MINIMUM	1.198	0.000	0	0.257	0.000	0.000	#DIV/0!	0	458	0
DAYS	13	13	13	1	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 18

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: MAY

YEAR: 2016

DATE	INFLUENT		EFFLUENT		RIVER OFS	INFLUENT MONITORING		EFFLUENT MONITORING						3X5 TOTAL COLIFORM		
	FLOW M.G.D.	FLOW M.G.D.	MAXIMUM GPM			B.O.D. mg/L	N.F.R. mg/L	pH	(°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.		RIVER CL ₂ RES	SETTLABLE SOLIDS
1	1.388	1.323	933		651			7.1	17.3				2.0	0.00		<1.8
2	1.324	0.555	927		585			6.9	18.0			24	1.9	0.00		
3	1.282	0.000	0		559				Washed CCB							
4	1.263	0.652	780		513			7.2	17.5			26	0.6	0.00		
5	1.296	1.162	881		509			6.9	17.3			24	1.4	0.00		
6	1.251	1.251	888		497	260	300	6.9	16.9	8	18	24	3.2	0.00	<0.1	
7	1.289	1.240	879		568			6.9	17.1				3.2	0.00		
8	1.321	1.247	885		534			7.1	17.1				2.5	0.00		2
9	1.264	1.232	873		513			6.9	16.8			26	2.6	0.00		
10	1.231	1.329	980		490			7.0	16.8			24	2.9	0.00		
11	1.235	1.392	975		479			7.1	17.3			26	2.6	0.00		
12	1.231	1.392	975		462			7	17.2			24	2.4	0.00		
13	1.198	0.938	979		458	280	250	6.9	17.3	13	24	24	2.1	0.00	<0.1	
14	1.235	0.458	326													4.5
15	1.300	0.458	327													
16	1.215	0.450	531					7.2	18.2			24	0.9			
17	1.204	0.598	649					7.0	18.5			24	1.5			
18	1.192	0.865	1032					7.0	18.2			24	1.2			
19	1.203	1.293	1147					7.1	17.8			24	2.2			
20	1.165	1.185	1161			290	210	7.2	17.7	15	18	24	1.8		<0.1	
21	1.207	0.665	473													
22	1.246	0.663	474													
23	1.191	1.074	1391													<1.8
24	1.168	1.666	1433					7.0	18.4			24	3.8			
25	1.153	1.605	1412					6.8	18.5			24	1.7			
26	0.827	1.631	1473					6.9	18.6			24	2.5			
27	0.819	1.525	1485			290	190	7.1	18.4	14	24	24	2.8		<0.1	
28	0.801	0.860	616													
29	0.797	0.853	610													
30	0.874	0.846	611													
31	0.835	1.157	1397					7.0	18.5			22	2.8			<1.8

SPILLS:

None to report

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
5/31/2016	240	27.0	ND	180

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
Bromform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

30 DAY AVERAGE				30 DAY AVERAGE			
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR
13	128	96	21	21	215	91	91

ACUTE TOXICITY

DATE	% Survival
Rainbow Trout 5/9/2016	100%
C. dubia 5/9/2016	100%

CHRONIC TOXICITY

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

Total Coliform	Monthly
Median	<1.8
Daily	
Maximum	4.5

SIGNATURE: _____

REMARKS: Stopped river discharge on May 13, 2016 and started Land Application.

Indicates Permit Exceedance