

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Mar-13
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard
 LaPorte IN, 46350
 Phone # (219)362-2354

Page 1 of 6
 Permit # IN0025577
 Expires 12-31-2014
 Certified Operator : Jerry P Jackson
 Certification Number : 11486

					Raw Sewage				Primary Effluent				Secondary Effluent				Rotary Filter		Fixed-Bed Filter		Trickling Filters		Biotowers				
Day of the Month	Day of the Week	Total Flow in MGal/Day	Weekly Average Flow in MGal/Day	Precip in inches	Collection System Overflow 'X' if occurred	Diversion to CSO Basin At site hours	CSO Basin Overflow in MGal/Day	pH	CBOD in mg/L	TSS in mg/L	NH3 in mg/L	pH	CBOD in mg/L	TSS in mg/L	NH3 in mg/L	pH	CBOD in mg/L	TSS in mg/L	NH3 in mg/L	Flow in MG/Day	Cleaning in Minutes	Flow in MG/Day	Cleaning in Minutes	Secondary Recirc. Ratio	Flow in MG/Day	Tertiary Recirc. Ratio	Cleaning in Minutes
1	Fri	3.1					0.00	8.09	190	108	16.69	7.70	117	62	23.48	7.49	18	15	25.74	4.6		2.0		1.12	5.3	0.71	
2	Sat	2.8					0.00	8.62	170	114	28.47	7.78	120	70	28.84	7.65	33	23	28.97	4.6		1.8		1.25	5.3	0.88	
3	Sun	2.5		0.06			0.00	8.64	138	128	25.33	8.12	101	56	22.29	7.63	12	12	16.37	4.6		1.8		1.55	4.9	0.95	
4	Mon	2.9					0.00	7.79	160	128	34.82	7.60	130	72	27.23	7.42	15	18	25.31	4.7		2.1		1.31	5.0	0.70	
5	Tue	3.5		0.91			0.00	7.83	135	144	40.86	7.68	104	70	33.13	7.63	16	22	33.23	4.7		2.3		1.01	6.1	0.76	
6	Wed	4.4		0.03			0.00	8.05	170	144	24.64	7.77	83	70	24.76	7.62	21	26	19.45	4.7		2.3		0.59	6.2	0.42	
7	Thu	3.2					0.00	8.06	210	180	22.83	7.63	104	60	28.03	7.65	15	18	20.84	4.7		2.3		1.14	5.2	0.59	
8	Fri	3.3				0.6	0.00	8.84	160	166	26.33	7.63	102	92	24.39	7.44	20	26	25.20	4.5		1.9	75	0.92	5.8	0.73	
9	Sat	3.2	3.3				0.00	8.84	150	144	20.60	8.11	103	70	26.50	7.57	14	19	22.52	4.6		1.8		0.98	5.5	0.71	
10	Sun	4.7		0.25		1.4	0.00	7.61	143	200	19.16	7.60	92	88	21.62	7.34	24	33	19.67	4.8		2.0		0.46	7.3	0.57	
11	Mon	4.6		0.01		0.3	0.00	7.61	88	110	38.79	7.54	54	68	40.06	7.40	13	17	35.16	5.2		2.2		0.60	7.0	0.51	
12	Tue	3.2		0.03			0.00	7.74	120	100	60.17	7.70	84	52	64.23	7.73	16	16	49.94	4.6		2.3		1.13	5.4	0.67	
13	Wed	3.1		0.02			0.00	7.68	130	101	28.98	7.66	100	62	38.36	7.65	13	18	30.19	4.6		2.3		1.22	5.1	0.63	
14	Thu	3.0					0.00	7.69	115	108	30.34	7.57	101	54	38.40	7.50	16	15	31.57	4.6		2.3		1.29	5.3	0.77	
15	Fri	4.2		0.22		2.4	0.00	7.73	125	188	21.50	7.55	101	96	27.91	7.45	19	29	25.55	5.1		2.2	90	0.71	6.8	0.60	
16	Sat	4.5	3.9				0.00	7.80	111	58	14.83	7.68	97	52	17.02	7.60	24	20	12.22	4.6		1.8		0.40	7.1	0.58	
17	Sun	3.0					0.00	7.66	105	126	23.91	7.53	88	76	18.94	7.44	14	26	13.17	4.6		1.8		1.12	4.9	0.64	
18	Mon	3.2		0.04			0.00	7.63	165	127	22.53	7.50	95	30	26.74	7.48	14	7	15.25	4.6		2.1		1.09	5.1	0.59	
19	Tue	2.9					0.00	7.72	205	104	22.11	7.59	96	72	24.35	7.66	13	10	21.03	4.6		2.2		1.32	5.4	0.84	
20	Wed	2.7		0.06			0.00	7.71	165	156	22.26	7.59	117	74	25.38	7.66	18	17	17.77	4.6		2.3		1.55	5.2	0.92	
21	Thu	2.9		0.02			0.00	7.70	205	218	22.84	7.57	104	66	20.04	7.62	14	19	15.34	4.6		2.3		1.39	5.0	0.73	
22	Fri	3.1					0.00	7.67	300	146	27.46	7.56	108	68	20.26	7.48	14	14	15.87	4.6		1.9		1.12	4.9	0.59	
23	Sat	2.8	2.9				0.00	7.58	115	138	22.82	7.48	88	62	26.88	7.48	11	16	17.45	4.6		1.8		1.22	5.3	0.88	
24	Sun	3.0					0.00	7.67	102	100	17.92	7.67	88	56	19.17	7.78	14	15	14.94	4.6		1.8		1.07	5.6	0.84	
25	Mon	3.0					0.00	7.62	150	124	20.19	7.48	120	60	24.02	7.54	14	12	18.88	4.6		2.1		1.26	5.4	0.84	
26	Tue	3.2		0.02			0.00	7.83	185	170	20.24	7.65	107	72	23.68	7.72	16	17	24.78	4.6		2.3		1.16	5.5	0.72	
27	Wed	4.2					0.00	8.02	109	90	16.10	7.68	85	58	16.24	7.43	22	15	14.86	4.6		2.3		0.63	6.4	0.52	
28	Thu	2.7					0.00	7.67	240	120	28.45	7.62	120	58	17.18	7.56	21	17	11.77	4.6		2.3	240	1.55	4.9	0.83	
29	Fri	2.8					0.00	7.56	335	120	19.81	7.40	138	59	20.52	7.23	20	19	15.88	4.5		1.9		1.29	4.9	0.74	
30	Sat	3.0	3.1				0.00	7.61	160	104	14.29	7.52	125	64	17.21	7.45	16	29	13.66	4.5		1.8		1.09	5.2	0.73	
31	Sun	2.7		0.01			0.00	7.82	173	92	17.95	7.63	112	54	21.25	7.44	11	12	13.40	4.5		1.8		1.37	5.0	0.88	
AVERAGE		3.3		0.05		0.1	0.00	7.87	162	131	24.94	7.64	103	65	26.07	7.54	17	18	21.48	4.6		2.1	13	1.09	5.6	0.71	
MAXIMUM		4.7	3.9	0.91		2.4	0.00	8.84	335	218	60.17	8.12	138	96	64.23	7.78	33	33	49.94	5.2		2.3	240	1.55	7.3	0.95	
MINIMUM		2.5		0.01		0.0	0.00	7.56	88	58	14.29	7.40	54	30	16.24	7.23	11	7	11.77	4.5		1.8	75	0.40	4.9	0.42	
# OF DATA		31		13		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31		31	3		31		
TOTAL		102		1.68		5	0	244	5028	4056	773	237	3183	2023	808	234	516	572	666	144		64	405		172		

MONTHLY REPORT OF OPERATION

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Page 2 of 6

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Final Effluent

Day of the Month	Day of the Week	Effluent Flow in MGal/Day	Maximum Daily pH	Minimum Daily pH	CBOD in mg/L	CBOD weekly av in mg/L	CBOD in lbs/Day	CBOD weekly av in lbs/Day	TSS in mg/L	TSS weekly av in mg/L	TSS in lbs/Day	TSS weekly av in lbs/Day	NH3-N in mg/L	NH3-N weekly av in mg/L	NH3-N in lbs/Day	NH3-N weekly av in lbs/Day	Dissolved Oxygen in mg/L	Aerators run in hours	Chlorine Tank Residual in mg/L	Escherichia Coliform (Colonies /100mL)	Effluent Chlorine Residual in mg/L
1	Fri	2.8	7.49	7.34	4		93		1		26		0.36		9		11.1				
2	Sat	2.6	7.72	7.38	9		221		7		166		0.47		11		11.2				
3	Sun	2.3	7.82	7.52	< 2		21		4		73		0.22		5		10.8				
4	Mon	2.7	7.59	7.43	5		127		7		171		0.24		6		10.7				
5	Tue	3.1	7.66	7.43	4		110		8		217		1.50		43		10.7				
6	Wed	4.0	7.57	7.35	6		208		4		146		1.99		73		10.9				
7	Thu	3.0	7.77	7.19	7		184		2		54		1.25		34		10.7				
8	Fri	3.1	7.37	7.29	6		165		9		251		2.15		60		11.2				
9	Sat	2.9	7.72	7.36	5	5	130	135	4	5	108	146	1.74	1.30	47	38	11.7				
10	Sun	4.2	7.44	7.30	6		245		16		603		1.13		44		11.0				
11	Mon	4.1	7.37	7.18	6		227		5		192		1.89		73		11.5				
12	Tue	3.0	7.81	7.24	4		108		2		54		0.93		25		11.1				
13	Wed	2.9	7.65	7.36	5		121		5		129		0.63		16		11.6				
14	Thu	2.8	7.59	7.36	4		88		6		151		2.42		61		10.9				
15	Fri	3.8	7.50	7.41	6		223		11		390		2.99		106		10.5				
16	Sat	4.1	7.62	7.31	16	7	616	233	5	7	189	244	0.82	1.54	31	51	10.8				
17	Sun	2.7	7.68	7.39	4		92		10		249		0.23		6		11.6				
18	Mon	2.9	7.56	7.47	3		88		4		107		0.11		3		11.2				
19	Tue	2.7	7.72	7.50	4		91		2		37		0.42		10		11.3				
20	Wed	2.5	7.69	7.40	4		97		7		158		0.36		8		11.2				
21	Thu	2.7	7.82	7.47	4		98		3		72		0.25		6		11.2				
22	Fri	2.8	7.73	7.41	5		126		1		26		0.11		3		11.2				
23	Sat	2.6	7.65	7.48	3	4	81	96	5	5	119	110	0.18	0.24	4	6	11.4				
24	Sun	2.7	7.88	7.47	5		117		6		153		0.18		5		11.0				
25	Mon	2.7	7.61	7.45	3		79		1		25		0.15		4		11.1				
26	Tue	2.9	7.97	7.39	5		122		2		53		1.38		37		11.3				
27	Wed	3.8	7.69	7.17	6		200		4		140		0.15		5		11.4		0.80		< 0.01
28	Thu	2.5	7.67	7.24	6		142		5		112		0.11		2		11.4		0.99	3	< 0.01
29	Fri	2.5	7.47	7.22	6		130		1		24		0.11		3		11.8		0.78	1	< 0.01
30	Sat	2.6	7.40	7.28	5	5	127	131	11	4	275	112	0.12	0.31	3	8	11.7		0.77	4	< 0.01
31	Sun	2.3	7.45	7.20	4		91		3		55		0.09		2		11.8		0.70	13	< 0.01
AVERAGE		3.0			5		147		5		146		0.80		24		11.2		0.81	4	< 0.01
MAXIMUM		4.2	7.97		16	7	616	233	16	7	603	244	2.99	1.54	106	51	11.8		0.99	13	< 0.01
MINIMUM		2.3		7.17	<2		21		1		24		0.09		2		10.5		0.70	1	< 0.01
# OF DATA		31	31	31	31		31		31		31		31		31		31		5	4	5
TOTAL		92	237	228	160		4567		159		4525		25		744		347.0		4.04	21	< 0.01

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2101 Boyd Boulevard

LaPorte IN, 46350

Phone # (219)362-2354

Page 3 of 6

Permit # IN0025577

Expires 12-31-2014

Certified Operator : Jerry P Jackson

Certification Number : 11496

Solids Removal

		Chemicals Used for disinfection						Primary & Secondary Settling			Final Settling		
Day of the Month	Day of the Week	Chlorine in lbs/Day	Sulfur Dioxide in lbs/Day	Grit in cubic ft per day	Screening in cubic ft per day	Pri. Sludge to Primary # 1 Digester (gal x 1000)	Scum to Primary # 2 Digester (gal x 1000)	Secondary Sludge to Pri. Clarifier (gal x 1000)	Cleaning Mechanism run in hours	Sludge Drawn Hours per day	Sludge to Headworks (gal x 1000)		
1	Fri					19	0	265	6	2	81		
2	Sat					19	0	260	6	2	81		
3	Sun					21	0	256	6	2	81		
4	Mon				34	22	0	255	6	2	87		
5	Tue					21	0	256	6	2	80		
6	Wed					23	0	259	6	2	79		
7	Thu					23	0	257	6	2	81		
8	Fri					22	0	258	6	2	85		
9	Sat					24	0	255	6	2	80		
10	Sun					33	0	247	6	2	81		
11	Mon			20	27	30	0	259	6	2	79		
12	Tue					21	0	256	6	2	82		
13	Wed					20	0	253	6	2	80		
14	Thu					23	0	254	6	2	79		
15	Fri					28	0	257	6	2	80		
16	Sat					30	0	262	6	2	79		
17	Sun					24	0	255	6	2	79		
18	Mon					22	0	253	6	2	79		
19	Tue					24	0	250	6	2	79		
20	Wed					24	0	248	6	2	87		
21	Thu					23	0	248	6	2	82		
22	Fri					25	0	250	6	2	78		
23	Sat					25	0	248	6	2	79		
24	Sun					26	0	248	6	2	78		
25	Mon					22	0	247	6	2	79		
26	Tue					23	0	248	6	2	79		
27	Wed	40	10		61	23	0	254	6	2	78		
28	Thu	70	40			23	0	249	6	2	78		
29	Fri	60	50			21	0	250	7	2	81		
30	Sat	70	50			23	0	250	6	2	77		
31	Sun	60	60			25	0	252	6	2	77		
AVERAGE		10	7	1	4	24		254	6	2	80		
MAXIMUM		70	60	20	61	33		265	7	2	87		
MINIMUM		40	10	20	27	19	0	247	6	2	77		
# OF DATA		5	5	1	3	31	31	31	31	31	31		
TOTAL		300	210	20	122	729		7861	188	70	2484		

Secondary Digester		Date:
Sample Taken by Grab Method		
Pollutants:	Wet Wght	Dry Wght
Inorganic	mg/L	mg/Kg
Arsenic - As		
Cadmium - Cd		
Chromium - Cr		
Copper - Cu		
Lead - Pb		
Mercury - Hg		
Molybdenum - Mo		
Nickel - Ni		
Selenium - Se		
Zinc - Zn		
% Total Solids		

Nutrients	Wet Wght	% by
	mg/L	weight
TKN		
Ammonia		
Nitrate		
Phosphorous		
Potassium		

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Page 4 of 6
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		Raw Sludge				Primary Digester #1				Primary Digester #2				Secondary Digester					Digested Sludge Storage Tank				
Day of the Month	Day of the Week	Gas produced in 1000 cubic ft per day	Total Solids in percent	Solids Percent Volatile	pH	Total Solids in percent	Solids Percent Volatile	pH	Digester Temp in Deg. F	Total Solids in percent	Solids Percent Volatile	pH	Digester Temp in Deg. F	Sludge to Secondary Digester (gal x 1000)	Total Solids in percent	Solids Percent Volatile	pH	Digester Overflow Supernatant (gal x 1000)	Digester Supernatant (% Total Solids)	Storage Tank #1 Volume (gal x 1000)	Storage Tank #2 Volume (gal x 1000)	Storage Tank Supernatant (gal x 1000)	Secondary to Storage Tank (gal x 1000)
1	Fri							95					96	14				45			185		
2	Sat							95					96	13				43			185		
3	Sun							95					96	15				46			185		
4	Mon		2.88	76.1	6.22	1.96	54.6	7.16	95	1.75	53.5	7.18	96	23	4.05	59.0	7.08	17			207	11.0	22
5	Tue							95					96	11				27			210	20.0	
6	Wed							95					96	17				54			209	27.1	
7	Thu							95					96	16				54			209	27.1	
8	Fri							95					96	15				49			209	26.9	
9	Sat							95					96	16				52	0.28		209	27.6	
10	Sun							95					96	21				63	0.23		210	26.7	
11	Mon		3.60	79.2	6.43	1.32	54.1	7.11	95	1.55	52.1	6.98	96	28	4.42	60.0	7.09	26			232	28.4	22
12	Tue							95					96	13				35			232	27.9	
13	Wed							95					96	13				40			231	27.3	
14	Thu							95					96	15				47			231	26.3	
15	Fri							95					96	19				59			216	27.1	
16	Sat							95					96	19				60			186	28.4	
17	Sun							95					96	17				57			181	5.7	
18	Mon		3.42	76.6	6.84	1.59	58.7		95	1.61	54.6	7.08	96	22	4.20	59.1	7.13	17			204	14.9	23
19	Tue							95					96	17				35			203	27.0	
20	Wed							95					96	17				53			203	1.8	
21	Thu							95					96	17				51			203		
22	Fri							95					96	22				61			202		
23	Sat							95					96	17				53	0.23		202		
24	Sun							95					96	19				58	0.25		202		
25	Mon		3.30	80.6	6.21	2.23	54.7	7.16	95	1.36	60.1	7.10	96	17	4.80	59.1	7.12	49			202		
26	Tue							95					96	17				51			202		
27	Wed							95					96	16				48			202		
28	Thu							95					96	18				53			202	0.0	
29	Fri							95					96	20				58			201	0.0	
30	Sat							95					96	15				39			201	0.0	
31	Sun							95					96	16				38			201	0.0	
AVERAGE			3.30	78.1	6.43	1.78	55.5	7.14	95	1.57	55.1	7.09	96	17	4.37	59.3	7.11	46	0.25		205	12.3	2
MAXIMUM			3.60	80.6	6.84	2.23	58.7	7.16	95	1.75	60.1	7.18	96	28	4.80	60.0	7.13	63	0.28		232	28.4	23
MINIMUM			2.88	76.1	6.21	1.32	54.1	7.11	95	1.36	52.1	6.98	96	11	4.05	59.0	7.08	17	0.23		181		
# OF DATA			4	4	4	4	4	3	31	4	4	4	31	31	4	4	4	31	4	31	31	31	31
TOTAL			13	313	26	7	222	21	2948	6	220	28	2986	536	17	237	28	1437	1		6359	381	68

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Page 5 of 6

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NPDES LIMITS AND ANALYSIS

Metals and Cyanide Analysis : All results are given in mg/l

INFLUENT								EFFLUENT							
Method: 24 hour composite								Site: Post Disinfection							
Sample Characteristics		Cr	Cu	Pb	Ni	Zn	CN, Free	Cr	Cu	Pb	Ni	Zn	CN, Free		
Sample Number															
Sample Type	Permit Condition	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB		
	Monitored	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB		
Frequency	Permit Condition	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual		
	Monitored	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual		
Parameter Limits	Daily Maximum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Monthly Average	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1st Date: March 6th		0.012	0.055	<0.005	0.014	0.074		<0.005	0.022	<0.005	0.010	0.026			
2nd Date: March 20th		0.009	0.069	<0.005	0.010	0.066	<0.005	<0.005	0.016	<0.005	0.006	0.020	<0.005		
3rd Date :															
4th Date :															
5th Date															
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Average		0.011	0.062	<0.003	0.012	0.070	<0.003	<0.003	0.019	<0.003	0.008	0.023	<0.003		
Maximum		0.012	0.069	<0.005	0.014	0.074	<0.005	<0.005	0.022	<0.005	0.010	0.026	<0.005		

Other Permit Analysis

	Weekly Av FLOW in MGD	Monthly Average FLOW in MGD	Weekly Av CBOD in mg/L	Monthly Average CBOD in mg/L	Weekly Av CBOD in lbs/Day	Monthly Average CBOD in lbs/Day	Weekly Av TSS in mg/L	Monthly Average TSS in mg/L	Weekly Av TSS in lbs/Day	Monthly Average TSS in lbs/Day	Weekly Av NH3-N in mg/L	Monthly Average NH3-N in mg/L	Weekly Av NH3-N in lbs/Day	Monthly Average NH3-N in lbs/Day	Daily Dissolved Oxygen* in mg/L	pH	Chlorine Residual in mg/L	Daily Max Escherichia Coliform (/100mL)	Mnthly Av Escherichia Coliform (/100mL)
Limit	None	None	40	25	3338	2086	45	30	3755	2504	2.70	1.80	225	150	6.0	6-9	0.06	235	125
Times Violated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	3.9	3.3	7	5	233	147	7	5	244	146	1.54	0.80	51	24	10.5	7.97	< 0.01	13	4
% of Limit	56%	47%	17%	21%	7%	7%	16%	17%	6%	6%	57%	44%	23%	16%	175%				
Total				0		0		0		0		0		0	0	0	0		0

*Dissolved Oxygen value is minimum daily average. Percent of limit values for Dissolved Oxygen less than 100% are indicative of a violation.

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Mar-13
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

Page 6 of 6
 Permit # IN0025577
 Expires 12-31-2014
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

Total lbs Volatile Solids to Digester 5,053

Overall Percent Removal of Volatile Solids 59.2%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 26,098

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 439

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 47

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 721

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 32

Fixed Bed Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 3

Biotower Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 3

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	37%	50%	-5%
Secondary Treatment :	84%	72%	18%
Adv. Sec. Treatment :	69%	72%	96%
Overall Treatment :	97%	96%	97%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	4.9	2.6	3.7
Secondary Settling Tank	3.6	1.9	2.7
Final Settling Tank	11.2	6.0	8.6
Chlorine Contact Tank	0.77	0.42	0.59
Total Plant Retention Time	19.6	10.6	15.0

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
Primary Settling Tank	583	314	410
Secondary Settling Tank	770	415	541
Final Settling Tank	393	211	276

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
Primary Settling Tank	11	6	8
Secondary Settling Tank	9	5	6
Final Settling Tank	9	5	6

TREATMENT EQUIPMENT	Total available	Number in service
PRIMARY CLARIFIER TANKS	4	4
SECONDARY CLARIFIER TANKS	2	2
FINAL CLARIFIER TANKS	2	2
ROTARY FILTER	1	1
FIXED BED FILTER	1	1
BIOTOWERS	2	2

Monthly Comments Concerning Plant Operation:

4/28/2013 - South half of fixed bed put back in service for warm weather operation

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 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 fines or imprisonment for knowing violations.

Certified Operator Signature: _____ Certification # : 11496

Executive Officer OR Authorized Agent Signature: _____

