

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Jul-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 : 11496

					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	Mon	8.1				5.0	0.00	7.54	40	63	7.05	7.51	38	68	7.92	7.27	9	36	3.19	7.5		3.1		0.29	11.8	0.45	
2	Tue	6.7		0.35		3.5	0.00	7.55	72	134	7.32	7.49	65	52	7.67	7.38	14	31	2.98	6.5		2.4		0.33	10.2	0.51	
3	Wed	7.5		0.23		5.2	0.00	7.50	33	65	6.18	7.43	37	86	8.16	7.18	10	37	3.70	7.5		3.0		0.40	11.2	0.49	
4	Thu	5.4					0.00	7.51	65	58	10.40	7.45	46	54	11.96	7.22	9	32	5.14	5.2		2.4		0.39	8.9	0.64	
5	Fri	3.8					0.00	7.52	152	90	14.75	7.44	73	47	14.11	7.31	11	19	5.83	4.8		2.0		0.79	5.4	0.41	
6	Sat	5.7	6.7	0.32		3.9	0.00	7.48	68	84	10.61	7.37	53	52	9.50	7.15	8	28	3.67	5.9		2.6		0.49	8.1	0.43	
7	Sun	5.5					0.00	7.56	60	54	10.91	7.45	44	50	11.90	7.21	9	22	6.28	5.1		1.9		0.28	8.5	0.55	
8	Mon	6.3		0.36		3.0	0.00	7.57	87	135	9.38	7.47	68	76	9.47	7.19	9	36	4.79	6.0		2.3		0.32	9.8	0.57	
9	Tue	6.9		0.26		4.7	0.00	7.48	52	96	7.88	7.38	49	46	9.44	7.14	11	26	4.07	6.1	60	3.0		0.32	10.0	0.45	
10	Wed	5.5					0.00	7.63	49	28	9.63	7.51	48	36	12.10	7.28	7	16	6.08	5.2		2.6		0.40	8.9	0.61	
11	Thu	4.6					0.00	7.60	78	70	13.30	7.48	58	62	12.70	7.23	8	31	4.94	4.9		2.4	180	0.61	7.2	0.58	
12	Fri	3.3					0.00	7.63	103	80	13.10	7.45	74	57	14.10	7.26	12	17	5.99	4.9		2.0		1.10	5.0	0.50	
13	Sat	4.2	5.2				0.00	7.57	93	70	12.45	7.52	67	30	12.60	7.27	12	17	5.30	4.9		1.9		0.61	7.1	0.67	
14	Sun	4.2					0.00	7.60	97	68	13.50	7.56	61	44	11.35	7.25	9	17	5.43	4.9		1.8		0.60	6.5	0.54	
15	Mon	3.2					0.00	7.51	116	100	18.00	7.44	105	58	17.50	7.19	15	22	6.68	4.9		2.2		1.22	4.9	0.53	
16	Tue	4.4					0.00	7.58	114	60	14.40	7.49	77	44	12.80	7.23	13	14	5.64	4.9		2.4		0.65	7.5	0.69	
17	Wed	4.2					0.00	7.60	130	88	12.30	7.54	69	56	11.60	7.26	11	19	5.31	4.8		2.4		0.73	6.2	0.47	
18	Thu	3.2					0.00	7.59	130	110	16.80	7.48	101	48	17.40	7.35	12	19	7.15	4.8		2.4		1.27	4.8	0.53	
19	Fri	3.8					0.00	7.64	128	238	14.30	7.53	101	77	15.10	7.30	12	30	6.48	4.9		2.0		0.81	6.2	0.64	
20	Sat	4.3	3.9				0.00	7.61	115	172	12.50	7.49	75	54	12.00	7.30	9	25	5.50	4.9		1.8		0.57	6.6	0.54	
21	Sun	3.0		0.03		0.4	0.00	7.56	120	102	20.30	7.44	97	64	22.10	7.29	11	16	10.50	4.9		1.9		1.22	5.0	0.66	
22	Mon	6.2		0.35		1.9	0.00	7.72	82	106	9.90	7.52	72	66	11.20	7.23	19	32	6.24	5.6		2.4		0.30	9.6	0.55	
23	Tue	3.3		0.01		8.0	0.00	7.74	68	74	10.90	7.49	56	52	9.52	7.35	10	21	4.32	4.0		1.8		0.75	6.1	0.83	
24	Wed	4.3					0.00	7.78	99	79	15.75	7.62	61	48	15.20	7.41	11	22	6.34	4.8		2.4		0.68	6.6	0.54	
25	Thu	3.0					0.00	7.62	190	198	18.20	7.50	90	68	19.50	7.23	13	24	7.60	4.8		2.3		1.36	4.9	0.65	
26	Fri	3.0		0.04			0.00	7.62	180	92	19.50	7.49	114	60	17.50	7.23	18	5	5.83	4.8		2.0	90	1.25	4.8	0.59	
27	Sat	3.8	3.8	0.02			0.00	7.54	151	74	14.40	7.44	95	42	13.70	7.21	16	18	7.08	4.9		1.8		0.78	6.7	0.77	
28	Sun	3.7					0.00	7.67	119	86	13.90	7.58	70	48	11.10	7.28	14	24	4.45	4.9		1.8		0.79	5.5	0.46	
29	Mon	2.9					0.00	7.64	165	135	23.30	7.50	95	54	18.60	7.18	16	11	6.76	4.8		2.2		1.39	5.0	0.70	
30	Tue	2.9					0.00	7.69	150	176	28.90	7.61	88	80	27.80	7.32	15	32	9.80	4.8		2.3		1.45	4.8	0.65	
31	Wed	4.1	4.6	0.02			0.00	7.69	109	101	17.65	7.53	79	58	20.20	7.20	14	26	10.10	4.7		2.3		0.74	6.9	0.71	90
AVERAGE		4.6		0.06		1.1	0.00	7.60	104	100	13.79	7.49	72	56	13.74	7.25	12	23	5.91	5.2	2	2.3	9	0.74	7.1	0.58	3
MAXIMUM		8.1	6.7	0.36		8.0	0.00	7.78	190	238	28.90	7.62	114	86	27.80	7.41	19	37	10.50	7.5	60	3.1	180	1.45	11.8	0.83	90
MINIMUM		2.9		0.01		0.0	0.00	7.48	33	28	6.18	7.37	37	30	7.67	7.14	7	5	2.98	4.0	60	1.8	90	0.28	4.8	0.41	90
# OF DATA		31		11		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1	31	2		31		1
TOTAL		141		1.99		36	0	236	3215	3086	427	232	2224	1737	426	225	366	724	183	161	60	70	270		221		90

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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	Mon	7.0	7.50	7.05	5		306		20		1358		0.37		25		7.9		1.53	17	< 0.01
2	Tue	5.8	7.69	7.21	9		487		9		504		0.35		20		8.4		1.37	45	< 0.01
3	Wed	6.5	7.41	7.26	4		275		24		1501		0.33		21		8.6		1.14	81	< 0.01
4	Thu	4.7	7.53	7.28	4		168		19		838		0.41		19		8.5		1.30	37	< 0.01
5	Fri	3.3	7.61	7.35	4		138		8		256		0.41		13		8.3		1.17	9	< 0.01
6	Sat	4.8	7.57	7.25	4	5	199	275	15	15	711	820	0.59	0.41	28	22	8.7		1.13	6	< 0.01
7	Sun	4.8	7.46	7.35	5		219		9		387		0.48		22		8.1		1.12	22	< 0.01
8	Mon	5.4	7.62	7.31	6		308		18		940		0.34		18		8.0		1.12	9	< 0.01
9	Tue	5.9	7.45	7.31	5		295		10		578		0.42		24		7.9		1.15	39	< 0.01
10	Wed	4.8	7.62	7.30	5		216		4		184		0.34		16		7.9		1.32	12	< 0.01
11	Thu	4.0	7.60	7.48	5		187		17		649		0.32		12		8.2		1.26	3	< 0.01
12	Fri	2.8	7.65	7.48	4		102		3		83		0.30		8		8.0		0.92	5	< 0.01
13	Sat	3.6	7.70	7.50	5	5	169	214	1	9	35	408	0.31	0.36	11	16	7.7		0.97	10	< 0.01
14	Sun	3.7	7.74	7.54	5		159		6		212		0.24		8		7.7		1.24	6	< 0.01
15	Mon	2.7	7.66	7.49	5		144		6		160		0.24		6		7.8		1.53	9	< 0.01
16	Tue	3.8	7.77	7.55	6		210		6		221		0.26		10		7.7		1.27	46	< 0.01
17	Wed	3.6	7.68	7.57	5		181		6		209		0.28		10		7.6		1.37	29	< 0.01
18	Thu	2.7	7.74	7.63	4		98		3		79		0.32		8		7.7		1.20	11	< 0.01
19	Fri	3.2	7.70	7.60	5		171		12		380		0.42		13		7.5		1.01	7	< 0.01
20	Sat	3.7	7.79	7.60	5	5	181	163	10	7	356	231	0.27	0.29	10	9	7.6		1.29	52	< 0.01
21	Sun	2.6	7.73	7.63	2		51		3		63		0.36		9		7.5		1.01	12	< 0.01
22	Mon	5.4	7.58	7.27	9		480		11		567		0.55		28		7.4		1.32	377	< 0.01
23	Tue	2.7	7.63	7.53	4		122		13		347		0.44		12		7.5		1.21	47	< 0.01
24	Wed	3.7	7.74	7.48	4		149		6		213		0.28		10		8.6		1.42	11	< 0.01
25	Thu	2.5	7.65	7.51	5		135		13		313		0.26		7		8.4		1.49	5	< 0.01
26	Fri	2.5	7.67	7.41	6		162		3		76		0.26		7		8.4		1.88	5	< 0.01
27	Sat	3.2	7.63	7.39	5	5	167	181	8	8	251	262	0.15	0.33	5	11	8.4		1.44	11	< 0.01
28	Sun	3.2	7.73	7.45	5		159		13		405		0.11		3		8.6		1.49	9	< 0.01
29	Mon	2.4	7.68	7.47	5		109		2		49		0.76		18		8.6		1.58	1	< 0.01
30	Tue	2.4	7.77	7.46	6		135		18		423		0.67		16		8.3		1.46	6	< 0.01
31	Wed	3.4	7.65	7.50	5	6	169	227	9	13	305	521	0.92	0.62	31	24	8.0		1.45	15	< 0.01
AVERAGE		3.9			5		195		10		408		0.38		14		8.0		1.30	14	< 0.01
MAXIMUM		7.0	7.79		9	6	487	275	24	15	1501	820	0.92	0.62	31	24	8.7		1.88	377	< 0.01
MINIMUM		2.4		7.05	2		51		1		35		0.11		3		7.4		0.92	1	< 0.01
# OF DATA		31	31	31	31		31		31		31		31		31		31		31	31	31
TOTAL		121	237	230	156		6051		302		12655		12		448		249.5		40.16	954	< 0.01

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Page 3 of 6
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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	Mon	80	110			21	0	267	6	2	86		
2	Tue	80	120	27		22	0	268	6	2	86		
3	Wed	130	100			28	0	272	6	2	86		
4	Thu	110	70			21	0	274	6	2	86		
5	Fri	80	60			21	0	272	6	2	89		
6	Sat	100	80			32	0	269	6	2	89		
7	Sun	90	80			21	0	268	6	2	88		
8	Mon	140	90			31	0	265	6	2	96		
9	Tue	140	80			33	0	269	6	2	93		
10	Wed	100	100			26	0	276	6	2	85		
11	Thu	90	60			21	0	279	6	2	90		
12	Fri	70	60	27	34	21	0	266	6	2	84		
13	Sat	80	80			23	0	256	6	2	86		
14	Sun	90	60			22	0	255	6	2	84		
15	Mon	80	40			20	0	248	6	2	84		
16	Tue	80	60			20	0	250	6	2	83		
17	Wed	80	80			21	0	247	6	2	82		
18	Thu	60	60			21	0	242	6	2	83		
19	Fri	70	50			22	0	263	6	2	85		
20	Sat	100	50			22	0	279	6	2	84		
21	Sun	60	60			23	0	268	6	2	91		
22	Mon	190	80		34	36	0	270	6	2	82		
23	Tue	120	80			24	0	263	6	2	95		
24	Wed	100	80			26	0	267	6	2	88		
25	Thu	60	50			21	0	261	6	2	84		
26	Fri	60	50			21	0	259	6	2	84		
27	Sat	100	70			22	0	263	6	2	84		
28	Sun	80	60			21	0	263	6	2	83		
29	Mon	70	50			21	0	255	6	2	83		
30	Tue	70	60			21	0	255	6	2	83		
31	Wed	80	60			21	0	262	6	2	81		
AVERAGE		92	71	2	2	23		264	6	2	86		
MAXIMUM		190	120	27	34	36		279	6	2	96		
MINIMUM		60	40	27	34	20	0	242	6	2	81		
# OF DATA		31	31	2	2	31	31	31	31	31	31		
TOTAL		2840	2190	54	68	725		8171	186	70	2669		

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	Mon		3.43	66.2	6.40	1.38	59.4	7.23	95	2.43	55.4	7.06	97	35	4.59	54.6	7.08	30	0.12		136		29
2	Tue								95				97	7				3			137		
3	Wed								95				97	22				53	0.09		138		
4	Thu								95				97	17				39			137		
5	Fri								95				97	15				29			137		
6	Sat								95				97	14				20			138		
7	Sun								95				97	21				51	1.80		137		
8	Mon		2.69	73.0	5.97	2.43	53.4	7.09	95	1.98	54.2	6.98	97	21	3.68	56.3		0		141	21.2	25	
9	Tue								95				97	20				38			133	9.7	
10	Wed								95				97	38				82	1.50		133		
11	Thu								95				97	15				32			132		
12	Fri								95				97	35				22			163		32
13	Sat								95				97	9				0			162		
14	Sun								95				97	11				18			162		
15	Mon		2.28	77.6	6.63	1.55	59.3	7.14	95	1.57	57.4	7.02	97	37	4.10	55.8	7.10	35		193		32	
16	Tue								96				97	7				0			172	20.2	
17	Wed								96				97					0	0.16		170	0.9	
18	Thu								96				96	28				52			170		
19	Fri								95				96	15				36			169		
20	Sat								95				97	9				21			158	9.2	
21	Sun								95				97	20				46	0.08		159	0.0	
22	Mon		0.93	76.7	6.46	2.51	51.9	7.20	95	1.78	62.6	6.99	97	36	3.96	56.9	7.14	29		188		29	
23	Tue								95				97	7				0			187		
24	Wed								95				97	18				37			174	11.1	
25	Thu								95				97	19				41			164	9.1	
26	Fri								95				97	17				40			164		
27	Sat								95				97	22				44			163		
28	Sun								95				97	4				13			163		
29	Mon		2.76	76.8	6.33	1.82	52.4	7.08	95	1.78	58.9	7.04	97	27	4.05	55.1	7.14	0		189		26	
30	Tue								95				97	14				35			189		
31	Wed								95				97	24				57	0.17		188		
AVERAGE			2.42	74.1	6.36	1.94	55.3	7.15	95	1.91	57.7	7.02	97	19	4.08	55.7	7.12	29	0.56		160	2.6	6
MAXIMUM			3.43	77.6	6.63	2.51	59.4	7.23	96	2.43	62.6	7.06	97	38	4.59	56.9	7.14	82	1.80		193	21.2	32
MINIMUM			0.93	66.2	5.97	1.38	51.9	7.08	95	1.57	54.2	6.98	96		3.68	54.6	7.08	0	0.08		132		
# OF DATA			5	5	5	5	5	5	31	5	5	5	31	31	5	5	4	31	7	31	31	31	31
TOTAL			12	370	32	10	276	36	2956	10	289	35	2997	584	20	279	28	904	4		4948	82	172

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Page 5 of 6

Date: Jul-13

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

Permit # IN0025577

Expires 12-31-2014

Certified Operator : Jerry P Jackson

Certification Number : 11496

NPDES LIMITS AND ANALYSIS

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

INFLUENT								EFFLUENT							
Method: 24 hour composite								Site: Post Rake Room							
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 :	July 10th, 2013	<0.005	0.035	<0.005	<0.005	0.046	<0.005	<0.005	0.017	<0.005	<0.005	0.022	<0.005		
2nd Date :	July 24th, 2013	<0.005	0.042	0.005	0.006	0.063	<0.005	<0.005	0.015	<0.005	<0.005	0.022	<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		<0.003	0.039	0.004	0.004	0.055	<0.003	<0.003	0.016	<0.003	<0.003	0.022	<0.003		
Maximum		<0.005	0.042	0.005	0.006	0.063	<0.005	<0.005	0.017	<0.005	<0.005	0.022	<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	30	20	2504	1669	36	24	3004	2003	2.40	1.60	200	134	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	6.7	4.6	6	5	275	195	15	10	820	408	0.62	0.38	24	14	7.4	7.79	< 0.01	377	14
% of Limit	96%	65%	19%	25%	11%	12%	40%	41%	27%	20%	26%	24%	12%	11%	123%				
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.

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Total lbs Volatile Solids to Digester 3,495

Overall Percent Removal of Volatile Solids 55.9%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 23,153

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 493

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 52

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 925

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 31

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 :	31%	44%	0%
Secondary Treatment :	84%	58%	57%
Adv. Sec. Treatment :	57%	58%	94%
Overall Treatment :	95%	90%	97%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	4.2	1.5	2.7
Secondary Settling Tank	3.1	1.1	2.0
Final Settling Tank	9.7	3.5	6.2
Chlorine Contact Tank	0.67	0.24	0.43
Total Plant Retention Time	17.0	6.1	10.8

Surface Flow Rate	Maximum	Minimum	Average
Gallons per sq ft per Day			
Primary Settling Tank	1018	362	569
Secondary Settling Tank	1344	478	751
Final Settling Tank	685	244	383

Weir OverFlow Rate	Maximum	Minimum	Average
1000 Gal per ft per Day			
Primary Settling Tank	20	7	11
Secondary Settling Tank	16	6	9
Final Settling Tank	16	6	9

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:

7/23 - Influent flow diverted to CSO storage from 8a-4p while influent sewers were cleaned. Stored wastewater was returned to the headworks.

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: _____

