

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Feb-12
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard
 LaPorte IN, 46350
 Phone # (219)362-2354

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 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 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	Wed	4.9					0.00	7.57	82	74	9.28	7.36	53	58	9.37	7.16	12	13	6.80	4.8			2.4		0.48	5.8	0.19	
2	Thu	3.6					0.00	7.53	111	170	17.39	7.33	82	64	19.56	7.14	11	16	14.00	4.6			1.9		0.80	4.2	0.15	
3	Fri	3.5					0.00	7.52	100	124	15.40	7.38	83	58	20.57	7.24	9	15	13.24	4.6			1.8		0.84	4.1	0.18	
4	Sat	4.9	4.4	0.10			0.00	7.57	83	92	10.69	7.41	70	70	11.98	7.27	13	21	10.08	5.7			1.9		0.55	5.9	0.20	
5	Sun	4.6					0.00	7.47	92	76	9.43	7.34	67	56	9.25	7.17	15	19	6.58	4.6			2.2		0.47	5.4	0.18	
6	Mon	5.3					0.00	7.58	88	63	17.32	7.37	72	86	13.16	7.34	15	21	9.28	5.4			2.7		0.53	6.3	0.19	
7	Tue	3.5		0.02			0.00	7.62	121	146	15.66	7.46	96	64	18.11	7.39	17	14	12.93	4.6			2.2		0.97	4.1	0.18	
8	Wed	3.4					0.00	7.59	145	152	16.35	7.46	87	72	18.54	7.37	13	16	13.52	4.6			2.2		1.04	4.0	0.18	
9	Thu	5.2					0.00	7.72	92	106	10.28	7.48	79	76	12.07	7.42	19	20	9.67	4.6			2.1		0.29	6.1	0.18	
10	Fri	3.5		0.08			0.00	7.59	106	84	17.76	7.56	80	56	17.85	7.43	14	12	11.00	4.6			1.7	60	0.79	4.1	0.17	
11	Sat	5.1	4.4	0.35			0.00	7.53	90	86	11.57	7.40	76	62	12.48	7.52	18	24	10.64	5.3			2.4		0.52	6.1	0.20	
12	Sun	3.7					0.00	7.63	100	114	13.55	7.36	87	64	15.23	7.41	16	16	11.94	4.5			2.1		0.80	4.4	0.19	
13	Mon	4.8		0.03			0.00	7.71	92	108	11.58	7.48	75	78	13.91	7.35	18	23	11.15	4.6			2.3		0.42	5.7	0.18	
14	Tue	3.5		0.01			0.00	7.52	125	140	17.14	7.37	88	68	21.86	7.38	15	15	13.92	4.6			2.3		0.97	4.0	0.16	45
15	Wed	6.1		0.10		8.4	0.00	7.54	110	129	10.15	7.37	98	84	8.28	7.37	25	27	8.72	5.7			2.9		0.40	7.2	0.18	
16	Thu	5.2		0.10			0.00	7.56	200	264	10.85	7.34	90	104	11.79	7.15	16	21	8.81	4.8			2.3		0.38	6.0	0.16	
17	Fri	4.7					0.00	7.68	195	72	10.48	7.43	155	68	10.63	7.28	30	22	8.05	4.5			1.7		0.32	5.6	0.18	
18	Sat	3.3	4.5				0.00	7.60	104	106	14.80	7.41	102	58	16.02	7.41	16	15	11.47	4.5			1.7		0.88	3.9	0.17	
19	Sun	3.3					0.00	7.59	109	126	15.60	7.40	90	60	16.63	7.32	16	15	12.65	4.5			2.1		1.00	3.9	0.19	
20	Mon	5.2				3.0	0.00	7.50	87	134	12.29	7.39	68	76	19.77	7.33	17	25	7.67	5.3			2.7		0.55	6.2	0.18	
21	Tue	5.6		0.20			0.00	7.82	85	104	7.53	7.57	71	86	8.43	7.39	18	24	6.73	5.8			2.6		0.50	6.7	0.20	
22	Wed	4.4		0.09			0.00	7.59	98	157	18.13	7.49	84	100	19.63	7.35	17	24	15.17	5.0	60		2.4		0.70	5.2	0.19	
23	Thu	4.0		0.14			0.00	7.70	77	108	13.52	7.50	72	118	13.89	7.36	20	27	10.36	4.7			1.9		0.66	4.7	0.17	
24	Fri	6.7		0.12		1.7	0.00	7.78	50	96	10.86	7.63	61	77	11.68	7.44	21	25	10.05	6.2			2.6		0.31	8.1	0.20	
25	Sat	4.4	4.8				0.00	7.77	82	62	12.16	7.61	62	54	13.15	7.52	19	20	8.81	4.6			1.7		0.43	5.1	0.17	
26	Sun	3.3					0.00	7.59	73	106	14.15	7.48	74	60	14.65	7.50	15	12	11.71	4.6			2.1		1.00	3.8	0.16	
27	Mon	5.9				0.1	0.00	7.64	73	98	9.11	7.47	61	80	9.37	7.43	15	23	7.86	6.1			2.6		0.45	7.1	0.20	
28	Tue	4.6		0.25			0.00	7.71	102	118	10.83	7.57	68	74	9.76	7.38	17	29	6.43	4.6			2.3		0.49	5.4	0.18	
29	Wed	9.7		0.62		14.3	0.00	7.71	46	135	3.75	7.41	47	108	6.43	7.31	19	33	5.95	7.1			3.6		0.10	11.5	0.18	
AVERAGE		4.7		0.08		0.9	0.00	7.62	101	116	12.68	7.44	79	74	13.93	7.35	17	20	10.18	5.0	2		2.3	2	0.61	5.5	0.18	2
MAXIMUM		9.7	4.8	0.62		14.3	0.00	7.82	200	264	18.13	7.63	155	118	21.86	7.52	30	33	15.17	7.1	60		3.6	60	1.04	11.5	0.20	45
MINIMUM		3.3		0.01		0.0	0.00	7.47	46	62	3.75	7.33	47	54	6.43	7.14	9	12	5.95	4.5	60		1.7	60	0.29	3.8	0.15	45
# OF DATA		29		14		29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	1		29	1		29		1
TOTAL		136		2.21		27	0	221	2917	3350	368	216	2297	2139	404	213	481	587	295	145	60		65	60		160		45

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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	Wed	4.6	7.41	7.31	4		158		2		81		0.35		14		9.8				
2	Thu	3.4	7.50	7.19	2		70		3		91		0.43		13		9.7				
3	Fri	3.3	7.48	7.30	2		63		3		87		0.51		15		10.0				
4	Sat	4.6	7.46	7.22	3	4	102	134	3	4	122	147	0.44	0.52	18	20	10.0				
5	Sun	4.3	7.49	7.35	4		134		7		268		0.23		9		10.8				
6	Mon	4.9	7.46	7.25	4		182		8		355		0.92		41		10.9				
7	Tue	3.3	7.62	7.46	4		115		3		72		0.47		14		10.7				
8	Wed	3.2	7.50	7.29	3		84		3		84		0.37		10		10.5				
9	Thu	4.9	7.43	7.33	4		152		6		260		0.30		13		10.9				
10	Fri	3.4	7.50	7.37	3		88		2		59		0.35		10		10.4				
11	Sat	4.8	7.62	7.26	5	4	203	137	8	5	339	205	0.70	0.48	30	18	11.5				
12	Sun	3.5	7.61	7.41	4		117		5		138		0.40		12		11.2				
13	Mon	4.5	7.42	7.34	4		168		14		561		0.43		17		11.1				
14	Tue	3.3	7.55	7.34	4		101		4		116		0.49		14		10.4				
15	Wed	5.6	7.49	7.25	7		371		8		406		1.26		64		10.2				
16	Thu	4.9	7.42	7.15	4		159		3		108		0.55		24		10.4				
17	Fri	4.5	7.49	7.29	4		158		4		158		0.34		13		10.5				
18	Sat	3.2	7.58	7.40	3	4	92	167	2	6	56	220	0.36	0.55	10	22	10.0				
19	Sun	3.1	7.52	7.43	3		77		4		110		0.47		13		9.9				
20	Mon	4.9	7.53	7.27	5		196		10		437		0.51		22		10.1				
21	Tue	5.3	7.59	7.35	4		197		4		188		0.45		21		10.5				
22	Wed	4.1	7.59	7.22	5		193		6		219		0.12		4		10.1				
23	Thu	3.8	7.45	7.30	6		187		18		601		0.68		23		10.4				
24	Fri	6.3	7.42	7.26	7		370		3		168		1.06		59		10.4				
25	Sat	4.2	7.62	7.31	5	5	198	203	3	7	110	262	0.53	0.55	19	23	11.7				
26	Sun	3.2	7.55	7.47	4		111		2		55		0.46		13		10.9				
27	Mon	5.5	7.52	7.37	5		232		9		445		0.55		27		10.7				
28	Tue	4.3	7.59	7.13	5		172		11		421		0.29		11		10.9				
29	Wed	8.9	7.51	7.02	7		553		8		650		0.69		56		10.6				
AVERAGE		4.4			4		173		6		233		0.51		21		10.5				
MAXIMUM		8.9	7.62		7	5	553	203	18	7	650	262	1.26	0.55	64	23	11.7				
MINIMUM		3.1		7.02	2		63		2		55		0.12		4		9.7				
# OF DATA		29	29	29	29		29		29		29		29		29		29				
TOTAL		128	218	212	121		5005		165		6766		15		611		305.2				

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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	Wed					21	0	253	6	2	95		
2	Thu					21	0	251	6	2	91		
3	Fri					21	0	249	6	2	77		
4	Sat					21	0	248	6	2	77		
5	Sun					21	0	252	6	2	77		
6	Mon					24	0	248	6	2	78		
7	Tue					20	0	249	6	2	79		
8	Wed					20	0	247	6	2	76		
9	Thu					24	0	250	6	2	76		
10	Fri					21	4	245	6	2	76		
11	Sat					29	0	245	6	2	79		
12	Sun					20	0	242	6	2	80		
13	Mon					20	0	248	6	2	77		
14	Tue					20	0	248	6	2	77		
15	Wed				54	23	2	246	6	2	82		
16	Thu					27	0	249	6	2	81		
17	Fri					24	0	251	6	2	78		
18	Sat					25	0	248	6	2	77		
19	Sun					21	0	248	6	2	81		
20	Mon				34	26	0	244	6	2	77		
21	Tue					27	5	247	6	2	79		
22	Wed					24	0	255	6	2	83		
23	Thu			20		21	4	263	6	2	81		
24	Fri					27	0	264	6	2	78		
25	Sat					21	0	266	6	2	80		
26	Sun					23	0	262	6	2	77		
27	Mon			20		29	0	255	6	2	77		
28	Tue					24	0	253	6	2	76		
29	Wed					35	0	251	6	2	79		
AVERAGE				1	3	23	1	251	6	2	79		
MAXIMUM				20	54	35	5	266	6	2	95		
MINIMUM				20	34	20	0	242	6	2	76		
# OF DATA				2	2	29	29	29	29	29	29		
TOTAL				41	88	681	16	7276	175	65	2302		

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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		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	Wed								96				96	14				48			122		
2	Thu								96				96	12				44			107	15.3	
3	Fri								96				96	13				46			107		
4	Sat								96				96	13				47	0.15		108		
5	Sun								96				96	13				49	0.18		107		
6	Mon		3.63	79.4	6.24	1.47	57.8	7.05	96	1.94	63.9	7.15	96	23	4.67	63.1	7.18	15		130		23	
7	Tue								96				96	5				10			130		
8	Wed								96				96	15				41			130		
9	Thu								96				96	15				48			129		
10	Fri								96				96	21				57			109	19.6	
11	Sat								96				96	19				60			106	3.6	
12	Sun								96				96	13				43			106		
13	Mon		2.27	92.9	6.32	1.67	63.0	6.97	96	1.84	64.3	7.17	96	20	4.20	63.2	7.22	13		127		21	
14	Tue								96				96	7				13			128		
15	Wed								96				96	18				51			127		
16	Thu								96				96	15				52			127		
17	Fri								96				96	16				49	0.19		128		
18	Sat								96				96	16				49			127		
19	Sun								96				96	13				47			127		
20	Mon		3.75	80.5	6.52	1.48	56.0	6.92	96	1.67	66.9	7.13	96	20	4.38	63.5	7.05	5		148		21	
21	Tue								96				96	18				50			148		
22	Wed								96				96	12				44			149		
23	Thu								96				96	20				56			150		
24	Fri								96				96	19				63			151		
25	Sat								96				96	15				46			151		
26	Sun								96				96	13				41			150		
27	Mon		3.66	78.2	6.44	1.79	53.8	7.06	96	1.66	62.2	7.22	96	32	4.77	61.7	7.15	22		184		35	
28	Tue								96				96	7				5			184		
29	Wed								96				96	22				74			186		
AVERAGE			3.33	82.8	6.38	1.60	57.7	7.00	96	1.78	64.3	7.17	96	16	4.51	62.9	7.15	41	0.17		134	1.3	3
MAXIMUM			3.75	92.9	6.52	1.79	63.0	7.06	96	1.94	66.9	7.22	96	32	4.77	63.5	7.22	74	0.19		186	19.6	35
MINIMUM			2.27	78.2	6.24	1.47	53.8	6.92	96	1.66	62.2	7.13	96	5	4.20	61.7	7.05	5	0.15		106		
# OF DATA			4	4	4	4	4	4	29	4	4	4	29	29	4	4	4	29	3	29	29	29	29
TOTAL			13	331	26	6	231	28	2782	7	257	29	2782	457	18	252	29	1188	1		3883	38	99

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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		
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		
Parameter	Permit Condition	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Limits	Monthly Average	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1st Date:	February 8th	0.005	0.062	<0.005	0.006	0.070		<0.005	0.026	<0.005	<0.005	0.020			
2nd Date :	February 22nd	0.008	0.053	<0.005	0.006	0.084	<0.005	<0.005	0.015	<0.005	<0.005	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		0.007	0.058	<0.003	0.006	0.077	<0.003	<0.003	0.021	<0.003	<0.003	0.020	<0.003		
Maximum		0.008	0.062	<0.005	0.006	0.084	<0.005	<0.005	0.026	<0.005	<0.005	0.020	<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 (Colonies /100mL)	Mnthly Av Escherichia Coliform (Colonies /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	4.8	4.7	5	4	203	173	7	6	262	233	0.55	0.51	23	21	9.7	7.62			
% of Limit	69%	67%	12%	17%	6%	8%	15%	19%	7%	9%	20%	28%	10%	14%	162%				
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

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Permit # IN0025577

Expires 12-31-2014

Certified Operator : Jerry P Jackson

Certification Number : 11496

Date: Feb-12
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

Total lbs Volatile Solids to Digester 5,389

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	21%	36%	-10%
Secondary Treatment :	79%	73%	27%
Adv. Sec. Treatment :	75%	72%	95%
Overall Treatment :	96%	95%	96%

Overall Percent Removal of Volatile Solids 64.7%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 23,128

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 474

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	3.7	1.3	2.6
Secondary Settling Tank	2.7	0.9	1.9
Final Settling Tank	8.5	2.9	6.0
Chlorine Contact Tank	0.59	0.20	0.41
Total Plant Retention Time	14.9	5.1	10.5

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

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 719

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
Primary Settling Tank	1218	413	586
Secondary Settling Tank	1608	545	773
Final Settling Tank	820	278	394

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 35

Fixed Bed Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 4

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
Primary Settling Tank	24	8	11
Secondary Settling Tank	19	7	9
Final Settling Tank	19	6	9

Biotower Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 4

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:

February 1, 2012 - Successful test of the emergency power system

February 14, 2012 - Successful test of the emergency power system

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, 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 fine or imprisonment for knowing violations.

Certified Operator Signature: _____ Certification # : 11496

Executive Officer OR Authorized Agent Signature: _____

