

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Nov-03
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard
 LaPorte IN, 46350
 Phone # (219)362-2354

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Permit # IN0025577

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	Sat	2.0	3.0	0.02			0.00	7.79	208	108	30.90	7.59	112	62	28.52	7.57	11	12	11.61	4.9		3.8		3.31	8.1	3.04	
2	Sun	3.4		0.30		1.1	0.00	7.55	185	146	20.61	7.38	104	74	18.59	7.36	26	26	10.66	5.1		3.9		1.60	8.5	1.47	
3	Mon	3.0		0.12			0.00	7.57	180	168	23.51	7.40	99	70	19.09	7.28	16	16	9.38	4.8		3.8		1.91	8.2	1.77	
4	Tue	2.7		0.39		0.5	0.00	7.81	175	94	29.25	7.42	93	58	23.71	7.47	10	10	10.14	4.9		3.8	240	2.27	8.5	2.18	
5	Wed	5.7		0.55		4.4	0.00	7.40	66	72	9.46	7.16	68	54	8.97	7.24	23	30	5.82	5.4		3.9		0.61	9.2	0.60	
6	Thu	4.0					0.00	7.54	97	120	16.96	7.42	61	50	15.60	7.41	12	17	8.46	4.8		3.9		1.18	8.3	1.09	
7	Fri	4.0					0.00	7.76	131	124	17.98	7.62	68	58	15.76	7.76	14	18	8.76	4.8		3.9		1.19	8.2	1.05	
8	Sat	2.6	3.6				0.00	7.61	128	100	23.89	7.27	83	52	20.30	7.22	13	12	8.40	4.8		3.8		2.39	8.2	2.20	
9	Sun	2.1					0.00	7.87	165	118	30.00	7.49	89	70	27.58	7.33	11	14	12.15	4.9		3.8		3.16	8.2	2.96	
10	Mon	2.4		0.03			0.00	7.85	170	150	29.96	7.61	108	114	27.51	7.53	13	23	13.08	4.8		3.8		2.53	8.2	2.38	
11	Tue	2.9		0.09			0.00	7.82	120	126	26.11	7.50	82	72	21.41	7.47	11	16	9.25	4.8		3.8		2.02	8.3	1.90	
12	Wed	2.4					0.00	7.87	165	170	31.03	7.57	95	72	23.98	7.48	9	12	11.08	4.8		3.8		2.56	8.3	2.44	90
13	Thu	2.5					0.00	7.63	270	294	30.84	7.61	104	64	26.51	7.76	12	14	13.90	4.8		3.8		2.41	8.2	2.28	
14	Fri	2.4					0.00	7.94	270	162	31.06	7.71	93	69	25.31	7.66	14	20	13.43	4.8		3.8		2.61	8.1	2.41	
15	Sat	2.1	2.4	0.05			0.00	7.76	165	110	29.09	7.59	118	88	29.34	7.75	11	14	13.65	4.8		3.8		3.08	8.1	2.85	
16	Sun	2.2		0.08			0.00	7.85	178	116	29.40	7.53	98	66	25.63	7.55	10	15	13.03	4.8		3.8		2.93	8.1	2.72	
17	Mon	2.2		0.09			0.00	7.80	245	171	29.24	7.41	113	60	20.25	7.28	21	24	13.22	4.7		3.8		2.79	8.1	2.63	
18	Tue	8.4		1.18		12.7	0.00	7.44	75	114	8.33	7.39	70	78	8.33	7.22	18	32	6.88	6.9		3.8		0.27	8.6	0.02	
19	Wed	4.2					0.00	7.66	81	56	15.12	7.38	57	36	13.63	7.37	11	14	7.74	4.8	60	3.8	225	1.05	8.2	0.97	90
20	Thu	4.1					0.00	7.63	85	62	17.01	7.52	61	50	17.32	7.46	10	17	8.62	4.9		3.8		1.09	8.3	1.00	
21	Fri	2.6					0.00	7.85	145	80	26.28	7.56	90	57	22.25	7.46	11	11	9.18	4.9		3.8		2.33	7.8	1.99	
22	Sat	2.2	3.7	0.98			0.00	7.83	178	108	31.73	7.46	106	66	28.06	7.48	9	12	10.67	4.9		3.8		2.92	7.8	2.51	
23	Sun	4.8				8.3	0.00	7.79	78	86	14.58	7.43	74	82	14.17	7.39	19	19	7.88	5.8		3.8		1.01	8.9	0.87	
24	Mon	4.8				0.5	0.00	7.62	60	71	11.08	6.98	38	44	10.61	6.99	10	16	5.74	5.1		3.9		0.86	8.0	0.67	
25	Tue	3.8					0.00	7.76	105	90	20.66	7.47	68	48	16.41	7.62	14	15	9.41	4.7		3.8		1.28	8.2	1.19	
26	Wed	4.3		0.08			0.00	7.57	85	62	16.88	7.31	64	44	16.21	7.37	14	14	11.37	4.9		3.9		1.06	8.3	0.95	60
27	Thu	3.0		0.02			0.00	7.62	120	114	19.59	7.66	83	66	17.90	7.64	13	17	10.56	4.9		3.9		1.90	8.3	1.74	
28	Fri	2.2		0.02			0.00	7.34	152	100	34.65	7.35	92	44	28.71	7.20	10	6	15.68	4.9		3.7		3.00	8.1	2.75	
29	Sat	2.3	3.6				0.00	7.77	168	100	35.24	7.65	117	66	31.16	7.74	11	10	19.95	4.9		2.4		2.27	7.9	2.50	
30	Sun	2.2					0.00	7.91	178	112	29.75	7.63	117	58	29.06	7.65	13	6	18.48	4.9		1.8		2.04	7.9	2.58	
AVERAGE		3.2		0.13		0.9	0.00	7.71	147	117	24.01	7.47	87	63	21.06	7.46	13	16	10.94	5.0	2	3.7	16	1.99	8.2	1.86	8
MAXIMUM		8.4	3.7	1.18		12.7	0.00	7.94	270	294	35.24	7.71	118	114	31.16	7.76	26	32	19.95	6.9	60	3.9	240	3.31	9.2	3.04	90
MINIMUM		2.0		0.02		0.0	0.00	7.34	60	56	8.33	6.98	38	36	8.33	6.99	9	6	5.74	4.7	60	1.8	225	0.27	7.8	0.02	60
# OF DATA		30		15		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	1	30	2		30		3
TOTAL		97		4.00		27	0	231	4424	3504	720	224	2623	1892	632	224	401	480	328	149	60	111	465		247		240

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Final Effluent

Day of the Month	Day of the Week	Effluent Flow in MGal/Day	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	Sat	1.8	8.13	3	2	42	71	3	4	50	101	0.59	0.39	10	10	9.1		2.56		< 0.006
2	Sun	3.2	7.60	7		193		8		230		1.17		34		8.9				
3	Mon	2.8	7.37	4		109		5		124		0.53		13		8.8				
4	Tue	2.4	7.77	4		95		7		155		0.59		13		8.4				
5	Wed	5.4	7.32	8		402		20		970		0.84		40		8.9				
6	Thu	3.7	7.52	3		86		4		124		0.58		19		9.9				
7	Fri	3.7	7.91	4		126		5		166		0.58		19		10.0				
8	Sat	2.2	7.21	3	5	73	155	2	7	32	257	0.56	0.69	12	22	10.1				
9	Sun	1.8	7.06	3		43		3		48		0.47		8		10.2				
10	Mon	2.2	7.78	4		87		7		142		0.55		11		9.6				
11	Tue	2.8	7.77	4		83		6		149		0.56		13		9.4				
12	Wed	2.1	8.00	2		40		4		80		0.33		7		9.0				
13	Thu	2.1	7.85	3		52		2		37		0.82		17		9.2				
14	Fri	2.0	7.95	3		57		5		89		1.09		22		9.7				
15	Sat	1.9	7.99	3	3	44	58	5	4	79	89	0.35	0.59	6	12	9.9				
16	Sun	2.0	7.87	3		47		6		100		0.47		8		9.7				
17	Mon	2.0	7.65	8		140		12		214		2.84		53		9.5				
18	Tue	8.2	7.30	9		659		20		1402		0.64		45		9.2				
19	Wed	3.9	7.23	3		105		3		105		0.44		16		9.5				
20	Thu	3.8	7.61	3		90		5		173		0.51		17		9.8				
21	Fri	2.1	7.91	2		50		4		76		0.48		10		9.6				
22	Sat	1.8	7.77	2	4	39	161	4	8	74	306	0.63	0.86	12	23	9.6				
23	Sun	4.1	7.67	7		259		10		398		1.81		72		9.3				
24	Mon	4.5	7.05	4		164		7		281		0.56		22		10.0				
25	Tue	3.3	7.59	3		94		4		133		0.81		26		10.4				
26	Wed	3.7	7.40	3		117		4		142		0.90		32		9.8				
27	Thu	3.7	8.12	3		68		4		107		0.58		15		10.2				
28	Fri	4.5	7.17	2		38		1		18		0.68		12		10.0				
29	Sat	1.8	7.82	2	3	39	111	3	5	47	161	0.59	0.85	11	27	10.3				
30	Sun	1.9	7.66	< 2		18		1		18		0.62		11		10.2				
AVERAGE		3.0	7.63	4		115		6		192		0.74		20		9.6		2.56		< 0.006
MAXIMUM		8.2	8.13	9	5	659	161	20	8	1402	306	2.84	0.86	72	27	10.4		2.56		
MINIMUM		1.8	7.05	<2		18		1		18		0.33		6		8.4		2.56		0.00
# OF DATA		30	30	30		30		30		30		30		30		30		1		1
TOTAL		91	229	111		3461		171		5762		22		608		288.2		2.56		< 0.006

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Certified Operator : Jerry P. Jackson

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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 Times per day	Sludge to Headworks (gal x 1000)	
1	Sat	39	31			20	0	269	6	4	209	
2	Sun				41	25	0	272	6	4	210	
3	Mon					19	0	276	6	4	200	
4	Tue					21	0	274	6	4	191	
5	Wed			54	47	24	0	274	6	3	148	
6	Thu					20	0	279	6	4	209	
7	Fri					20	0	280	6	4	199	
8	Sat					20	0	280	6	4	192	
9	Sun					20	0	278	6	4	190	
10	Mon					16	0	330	6	4	187	
11	Tue					17	10	334	6	4	190	
12	Wed					20	0	315	6	4	187	
13	Thu					19	0	324	6	4	186	
14	Fri				27	20	0	328	6	4	185	
15	Sat					20	0	325	6	4	185	
16	Sun					20	0	320	6	4	368	
17	Mon					20	0	313	6	4	203	
18	Tue					35	0	317	6	2	70	
19	Wed			47	34	24	0	320	6	4	190	
20	Thu					20	0	321	6	4	187	
21	Fri					20	0	313	6	4	186	
22	Sat					20	0	305	6	4	186	
23	Sun					26	0	302	6	3	121	
24	Mon			54		23	0	309	6	3	135	
25	Tue					20	0	313	6	4	187	
26	Wed			47	27	20	8	310	6	4	190	
27	Thu					20	0	307	6	4	191	
28	Fri					20	0	294	6	4	192	
29	Sat					20	0	286	6	4	199	
30	Sun					20	0	281	6	4	194	
AVERAGE		1	1	7	6	21	1	302	6	4	189	
MAXIMUM		39	31	54	47	35	10	334	6	4	368	
MINIMUM		39	31	47	27	16	0	269	6	2	70	
# OF DATA		1	1	4	5	30	30	30	30	30	30	
TOTAL		39	31	203	176	621	18	9052	180	127	5666	

Secondary Digester		Date:
<i>Sample Taken by Grab Method</i>		
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 Supernatant (gal x 1000)	Secondary to Storage Tank (gal x 1000)
1	Sat								96				97	18				45				0.1	0
2	Sun								96				97	17				50				0.1	0
3	Mon		2.12	81.3	6.88	1.26	57.1	6.80	96	1.67	60.6	7.12	97	26	3.86	61.1	6.89	10				0.1	30
4	Tue								96				97	2				7				0.1	0
5	Wed								96				98	14				36	0.14			0.1	0
6	Thu								96				98	11				31	0.09			0.1	0
7	Fri								96				98	14				36	0.14			0.1	0
8	Sat								96				98	14				31				0.1	0
9	Sun								96				98	18				46				0.1	0
10	Mon		3.21	74.4	6.02	4.03	53.2	6.78	96	2.15	61.7	6.92	98	32	3.88	58.2	7.00	24				0.1	39
11	Tue								96				98	9				5				0.2	1
12	Wed								96				98	2				4				0.2	0
13	Thu								96				98	13				30				0.2	0
14	Fri								96				98	12				33				0.2	0
15	Sat								96				98	12				33	0.16			0.2	0
16	Sun								96				98	32				89				0.5	0
17	Mon		2.70	77.6		2.13	60.2	7.22	96	3.48	62.1	7.36	98	23	3.44	61.8	7.32	8				0.3	31
18	Tue								96				98	15				26				0.3	
19	Wed								96				98	13				42				0.3	0
20	Thu								96				99	15				53				0.3	
21	Fri								96				99	13				49	0.13			0.3	0
22	Sat								96				99	15				53				0.3	
23	Sun								96				99	23				68				0.4	0
24	Mon		3.41	74.5	6.71	1.68	64.4	6.72	96	2.17	57.8	6.92	99	35	3.36	68.1	7.09	36				0.3	30
25	Tue								96				99	4				5				0.3	0
26	Wed								96				99	22				52				0.2	
27	Thu								96				99	11				29				0.2	
28	Fri								96				98	16				47	0.15			0.2	0
29	Sat								96				97	14				37				0.2	0
30	Sun								96				97	16				39				0.3	0
AVERAGE			2.86	77.0	6.54	2.28	58.7	6.88	96	2.37	60.6	7.08	98	16	3.64	62.3	7.08	35	0.14			0.2	4
MAXIMUM			3.41	81.3	6.88	4.03	64.4	7.22	96	3.48	62.1	7.36	99	35	3.88	68.1	7.32	89	0.16			0.5	39
MINIMUM			2.12	74.4	6.02	1.26	53.2	6.72	96	1.67	57.8	6.92	97	2	3.36	58.2	6.89	4	0.09			0.1	
# OF DATA			4	4	3	4	4	4	30	4	4	4	30	30	4	4	4	30	6			30	30
TOTAL			11	308	20	9	235	28	2877	9	242	28	2943	482	15	249	28	1054	1			6	131

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NPDES LIMITS AND ANALYSIS

Metals and Cyanide Analysis

INFLUENT										EFFLUENT						
Method: 24 hour composite										Site: Post Cl2 Tank						
Sample Characteristics		Cd	Cr	Cu	Pb	Ni	Zn	CN-	Cd	Cr	Cu	Pb	Ni	Zn	CN-	
Sample Number		CO1027	CO1032	CO1042	CO1051	CO1074	CO1092	CO0720	CO1027	CO1032	CO1042	CO1051	CO1074	CO1092	CO0720	
Sample Type	Permit Condition	24 Hour	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	
	Monitored	24 Hour	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	
Frequency	Permit Condition	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	4-31 Days	
	Monitored	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	2-31 Days	4-31 Days	
Parameter Limits	Daily Maximum								0.005	0.940	0.055	0.020	0.160	0.500	0.016	
	Monthly Average								0.002	0.400	0.024	0.010	0.070	0.200	0.016	
1st Date : November 5th		0.0004	<0.005	0.063	0.006	<0.002	0.068	<0.005	<0.0002	0.005	0.021	<0.001	0.005	0.026	0.005	
2nd Date : November 13th				0.290							0.033				<0.005	
3rd Date : November 19th		<0.0002	<0.005	0.064	<0.001	0.009	0.078	<0.005	<0.0002	<0.005	0.020	<0.001	0.009	0.022	<0.005	
4th Date : November 25th				0.075							0.016				<0.005	
5th Date																
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	
Average		0.0003	<0.003	0.123	0.003	0.005	0.073	<0.003	<0.0001	0.004	0.023	<0.001	0.007	0.024	0.003	
Maximum		0.0004	<0.005	0.290	0.006	0.009	0.078	<0.005	<0.0002	0.005	0.033	<0.001	0.009	0.026	0.005	

* We are currently under Agreed Order 2000-9996-W with IDEM to resolve effluent copper concerns.

Other Permit Analysis

	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Daily		Daily Max	Mnthly Av	
	FLOW	Average	CBOD	Average	CBOD	Average	TSS	Average	TSS	Average	NH3-N	Average	NH3-N	Average	Dissolved	pH	Chlorine	Escherichia	Escherichia
	in	in	in	in	in	in	in	in	in	in	in	in	in	in	mg/L	mg/L	mg/L	(Colonies	(Colonies
	MGD	MGD	mg/L	mg/L	lbs/Day	lbs/Day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	/100mL)	/100mL)
Limit	None	None	30	20	1751	1168	36	24	2102	1401	2.40	1.60	140	95	6.0	6-9	0.01	235	125
Times Violated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	3.7	3.2	5	4	161	115	8	6	306	192	0.86	0.74	27	20	8.4	8.13			
Total				0		0		0		0		0		0	0	0			0

*Dissolved Oxygen value is minimum daily average

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Nov-03
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

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 Permit # IN0025577
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

Total lbs Volatile Solids to Digester 3,800

Overall Percent Removal of Volatile Solids 50.5%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 23,461

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 471

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 85

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 1,070

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 22

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

Biotower Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 2

Monthly Removal Summary

Percent Removal	CBOD	TSS	AMMONIA
Primary Treatment	41%	46%	12%
Secondary Treatment	85%	75%	48%
Tertiary Treatment	72%	64%	93%
Overall Treatment	98%	95%	97%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	6.1	1.5	3.8
Secondary Settling Tank	4.4	1.1	2.8
Final Settling Tank	13.9	3.3	8.7
Total Plant Retention Time	24.4	5.9	15.2

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
Primary Settling Tank	1051	252	405
Secondary Settling Tank	1387	333	535
Final Settling Tank	707	170	273

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
Primary Settling Tank	20	5	8
Secondary Settling Tank	17	4	6
Final Settling Tank	16	4	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:

November 9th, 2003 - Primary Clarifier #4 out of service until November 12th, 2003 for service

November 12th, 25th - Emergency power system tested successfully

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 fines or imprisonment for knowing violations.

Certified Operator Signature: _____ Certification # : 11496

Executive Officer OR Authorized Agent Signature: _____

