

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Jan-06
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard
 LaPorte IN, 46350
 Phone # (219)362-2354

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Permit # IN0025577
 Expires 10-31-2009
 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	Sun	4.0		0.18			0.00	7.73	180	114	34.29	7.38	63	64	32.08	7.39	11	8	21.38	9.4		3.2		2.14	7.9	0.97	
2	Mon	4.5		0.48		3.9	0.00	7.69	200	514	12.92	7.37	98	234	12.68	7.31	28	51	11.77	5.1		2.4		0.66	8.7	0.93	
3	Tue	4.2		0.03			0.00	7.70	108	90	14.62	7.44	96	84	16.60	7.20	29	31	11.77	4.4	60	2.2	210	0.59	8.3	1.00	
4	Wed	3.8		0.05			0.00	7.67	125	97	27.09	7.43	87	72	20.27	7.38	24	20	15.80	4.5		2.2		0.79	8.3	1.21	
5	Thu	2.2		0.03			0.00	7.77	175	148	34.91	7.52	112	76	30.89	7.55	18	14	24.52	4.5		2.2		2.05	8.3	2.79	
6	Fri	2.4		0.03			0.00	7.79	160	150	27.95	7.53	130	95	30.49	7.54	19	20	26.86	4.6		1.8		1.70	7.8	2.30	
7	Sat	1.8	3.3				0.00	7.74	208	106	33.52	7.54	145	74	36.38	7.57	18	13	25.96	4.7		1.6		2.52	7.9	3.39	
8	Sun	1.6					0.00	7.76	223	144	34.57	7.45	140	66	34.03	7.39	18	12	24.98	4.7		1.6		2.89	7.9	3.87	
9	Mon	2.2					0.00	7.68	230	126	34.18	7.38	173	96	34.60	7.45	26	21	24.47	4.6		2.0		1.91	7.9	2.50	90
10	Tue	2.4		0.10			0.00	7.68	175	136	35.85	7.45	138	76	30.49	7.39	23	21	21.48	4.5		2.1		1.79	7.4	2.09	
11	Wed	1.9		0.01			0.00	7.72	200	134	40.90	7.48	135	74	36.18	7.53	18	15	25.06	4.5		2.1		2.52	8.3	3.37	
12	Thu	1.8					0.00	7.66	220	180	48.88	7.51	153	82	38.98	7.50	20	21	30.90	4.5		2.1		2.63	8.3	3.53	
13	Fri	7.1		1.13		15.8	0.00	7.75	53	92	5.14	7.41	62	110	10.18	7.44	33	58	9.98	6.4		3.2		0.36	10.3	0.46	
14	Sat	4.8	3.1				0.00	7.70	99	54	14.01	7.55	83	70	14.71	7.43	25	27	11.76	4.6		1.7		0.31	7.8	0.62	
15	Sun	4.5					0.00	7.68	97	54	12.40	7.55	72	62	13.55	7.43	27	27	10.90	4.6		1.6		0.39	7.8	0.73	
16	Mon	2.0		0.02			0.00	7.71	180	147	31.76	7.44	111	70	25.83	7.36	25	23	17.52	4.5		2.0		2.29	7.8	2.96	
17	Tue	4.1		0.51		2.8	0.00	7.72	135	198	14.79	7.40	103	112	22.59	7.39	32	37	20.01	4.9		2.5		0.79	9.0	1.19	
18	Wed	2.8					0.00	7.65	35	82	32.77	7.48	50	56	20.86	7.50	19	17	14.71	4.5		2.1		1.36	8.3	1.95	
19	Thu	2.0					0.00	7.71	128	128	35.08	7.56	101	82	34.79	7.52	18	28	25.87	4.5		2.1		2.27	8.3	3.09	
20	Fri	4.1		0.64		6.4	0.00	7.71	93	272	17.96	7.47	88	121	22.39	7.45	29	67	22.44	5.3		2.4		0.89	8.9	1.17	
21	Sat	5.1	3.5	0.19		0.7	0.00	7.50	63	80	9.58	7.32	25	78	10.65	7.09	28	36	9.41	4.9		2.3		0.39	8.5	0.65	
22	Sun	1.8					0.00	7.69	140	104	28.76	7.35	23	66	26.52	7.21	17	18	17.51	4.6		1.7		2.46	7.8	3.31	
23	Mon	2.4					0.00	7.56	128	173	24.98	7.39	76	74	26.09	7.40	18	23	18.88	4.5		2.0		1.76	7.8	2.31	
24	Tue	3.2		0.12			0.00	7.54	70	74	24.44	7.48	95	60	23.20	7.52	24	28	19.68	4.5		2.1		1.08	8.3	1.58	
25	Wed	3.1					0.00	7.55	80	118	25.43	7.50	78	46	21.48	7.46	20	22	17.64	4.5		2.2		1.14	8.3	1.65	
26	Thu	3.1					0.00	7.68	81	178	39.34	7.41	85	72	38.85	7.35	12	25	29.97	4.5		2.2		1.14	8.2	1.61	
27	Fri	1.9					0.00	7.70	108	148	41.54	7.45	90	78	39.39	7.45	19	24	32.59	4.6		1.9		2.43	7.8	3.15	
28	Sat	2.6	2.6	0.32		0.7	0.00	7.51	161	106	34.18	7.38	138	84	35.10	7.41	28	29	30.47	4.8		1.4	140	1.36	7.9	2.00	
29	Sun	7.4		0.68		8.5	0.00	7.37	112	142	9.99	7.22	92	108	12.82	7.28	27	35	9.69	5.6		3.2		0.19	9.8	0.32	
30	Mon	4.1		0.06			0.00	7.54	90	58	15.88	7.45	78	56	15.26	7.49	22	20	11.85	4.6		2.2		0.63	7.7	0.88	
31	Tue	1.8					0.00	7.70	82	118	34.03	7.44	105	74	34.03	7.41	19	23	23.80	4.6		2.2		2.65	7.6	3.12	
AVERAGE		3.3		0.15		1.3	0.00	7.66	133	138	26.83	7.44	97	83	25.87	7.41	22	26	19.99	4.9	2	2.1	11	1.49	8.2	1.96	3
MAXIMUM		7.4	3.5	1.13		15.8	0.00	7.79	230	514	48.88	7.56	173	234	39.39	7.57	33	67	32.59	9.4	60	3.2	210	2.89	10.3	3.87	90
MINIMUM		1.6		0.01		0.0	0.00	7.37	35	54	5.14	7.22	23	46	10.18	7.09	11	8	9.41	4.4	60	1.4	140	0.31	7.4	0.46	90
# OF DATA		31		17		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1	31	2		31		1
TOTAL		101		4.58		39	0	238	4138	4265	832	231	3020	2572	802	230	690	814	620	151	60	66	350		255		90

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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	Sun	1.7	7.52	8		268		7		217		1.30		43		10.3				
2	Mon	4.5	7.63	9		338		14		525		1.72		65		10.1				
3	Tue	4.2	7.35	9		305		9		304		0.82		28		11.0				
4	Wed	3.8	7.47	7		204		6		172		1.05		33		10.3				
5	Thu	2.4	7.59	6		100		4		68		1.24		23		10.8				
6	Fri	2.6	7.52	5		91		6		109		1.19		24		10.5				
7	Sat	2.0	7.66	5	7	70	197	4	7	60	208	0.82	1.16	12	33	10.7				
8	Sun	1.8	7.63	5		70		5		67		0.42		6		10.4				
9	Mon	2.4	7.59	7		125		4		75		0.57		11		10.2				
10	Tue	2.5	7.59	5		101		6		119		0.58		11		10.5				
11	Wed	2.1	7.57	5		79		6		87		0.49		8		10.4				
12	Thu	2.0	7.58	5		75		10		153		0.44		7		10.3				
13	Fri	6.8	7.50	22		1278		25		1443		2.52		148		10.5				
14	Sat	5.0	7.33	7	8	295	289	8	9	323	324	0.79	0.83	32	32	11.7				
15	Sun	4.6	7.37	8		304		9		319		0.63		24		11.6				
16	Mon	2.2	7.64	7		110		7		107		0.45		7		11.0				
17	Tue	4.2	7.56	9		320		14		472		2.75		94		10.5				
18	Wed	3.0	7.38	7		152		3		70		1.25		29		10.8				
19	Thu	2.2	7.38	6		96		9		148		0.74		12		10.5				
20	Fri	4.0	7.48	9		298		12		394		3.61		124		9.8				
21	Sat	5.2	7.11	11	8	450	247	12	9	514	289	1.55	1.57	66	51	10.7				
22	Sun	2.0	7.21	8		126		6		87		0.41		6		10.9				
23	Mon	2.5	7.36	7		134		11		208		0.58		11		10.3				
24	Tue	3.3	7.44	5		134		3		87		0.63		17		10.4				
25	Wed	3.3	7.43	4		115		5		131		1.70		44		11.1				
26	Thu	2.1	7.38	7		191		8		209		0.87		23		10.2				
27	Fri	2.0	7.39	7		105		8		118		0.65		10		10.1				
28	Sat	2.7	7.51	7	7	156	137	16	8	352	170	0.92	0.82	20	19	10.0				
29	Sun	7.3	7.27	10		628		18		1078		0.68		42		10.5				
30	Mon	4.2	7.44	5		172		6		206		0.38		13		10.0				
31	Tue	2.0	7.48	6		92		6		96		0.59		9		10.1				
AVERAGE		3.2	7.46	7		225		8		268		1.04		32		10.5				
MAXIMUM		7.3	7.66	22	8	1278	289	25	9	1443	324	3.61	1.57	148	51	11.7				
MINIMUM		1.7	7.11	4		70		3		60		0.38		6		9.8				
# OF DATA		31	31	31		31		31		31		31		31		31				
TOTAL		101	231	225		6984		261		8320		32		1004		326.2				

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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	Sun					20	0	286	6	4	202		
2	Mon			27	54	24	0	281	6	3	154		
3	Tue			20		20	0	289	6	4	208		
4	Wed					20	0	290	6	4	204		
5	Thu					20	0	290	6	4	206		
6	Fri					20	0	288	6	4	205		
7	Sat					20	0	287	6	4	203		
8	Sun					20	0	287	6	4	202		
9	Mon					20	0	293	6	4	202		
10	Tue			20	27	20	0	299	6	4	203		
11	Wed					20	0	324	6	4	202		
12	Thu					20	0	324	6	4	202		
13	Fri				34	32	0	327	6	1	114		
14	Sat					20	4	331	6	4	210		
15	Sun					20	0	334	6	4	204		
16	Mon			27		20	0	328	6	4	203		
17	Tue					25	0	317	6	4	194		
18	Wed					20	0	329	6	4	203		
19	Thu			27		20	0	318	6	4	200		
20	Fri					25	0	313	6	3	165		
21	Sat					22	0	317	6	3	159		
22	Sun					20	0	308	6	4	202		
23	Mon					20	0	300	6	4	201		
24	Tue			20	27	20	0	298	6	4	202		
25	Wed					20	0	297	6	4	203		
26	Thu					20	0	294	6	4	202		
27	Fri					20	0	294	6	4	201		
28	Sat					20	0	296	6	4	195		
29	Sun					29	0	305	6	2	105		
30	Mon			20	27	20	0	306	6	4	203		
31	Tue					20	0	301	6	4	202		
AVERAGE				5	5	21	0	305	6	4	192		
MAXIMUM				27	54	32	4	334	6	4	210		
MINIMUM				20	27	20	0	281	6	1	105		
# OF DATA				7	5	31	31	31	31	31	31		
TOTAL				162	169	647	4	9452	186	128	5958		

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 Supernatant (gal x 1000)	Secondary Storage Tank (gal x 1000)	
1	Sun								96				95	14				45			0.1	
2	Mon		3.26	89.7	5.91	2.88	64.0	6.70	96	2.92	61.5	7.17	95	30	3.71	58.7	7.12	13			0.1	37
3	Tue								96				95	2				0			0.0	
4	Wed								96				95	9				16			0.0	
5	Thu								96				95	11				38			0.0	
6	Fri								96				95	12				41			0.0	
7	Sat								96				95	12				40			0.0	
8	Sun								96				95	13				42			0.1	
9	Mon		3.11	71.2	6.20	1.76	62.5	6.89	96	3.30	63.2	7.12	95	33	3.76	61.1	7.05	15			0.1	38
10	Tue								96				95	10				0			0.1	
11	Wed								96				95	8				33			0.1	
12	Thu								96				95	14				47			0.1	
13	Fri								96				95	21				63			0.1	
14	Sat								96				95	22				61			0.6	
15	Sun								96				95	8				36			1.0	
16	Mon		0.57	66.3	6.97	1.66	56.3	7.05	96	2.89	53.1	7.11	95	32	3.72	57.9	7.06	12			0.8	39
17	Tue								96				95	7				0			0.6	
18	Wed								96				95	6				13			0.8	
19	Thu								96				95	13				47			0.9	
20	Fri								96				95	19				48			1.1	
21	Sat								96				95	8				24			1.2	
22	Sun								96				95	17				54			1.2	
23	Mon		1.18	70.5	6.83	2.77	54.9	6.88	96	1.45	65.1	7.02	95	31	3.83	57.1	7.21	13			1.3	39
24	Tue								96				95	4				0			1.3	
25	Wed								96				95	4				0			1.3	
26	Thu								96				95	12				39			1.4	
27	Fri								96				95	12				33			1.4	
28	Sat								96				96	15				49			1.4	
29	Sun								96				95	22				64			1.4	
30	Mon		2.11	77.3	6.32	1.68	58.4	6.96	96	3.02	59.6	7.18	95	30	3.81	55.9	7.14	11			1.4	37
31	Tue								96				95	0				0			15.9	
AVERAGE			2.05	75.0	6.45	2.15	59.2	6.90	96	2.72	60.5	7.12	95	15	3.77	58.1	7.12	29			1.2	6
MAXIMUM			3.26	89.7	6.97	2.88	64.0	7.05	96	3.30	65.1	7.18	96	33	3.83	61.1	7.21	64			15.9	39
MINIMUM			0.57	66.3	5.91	1.66	54.9	6.70	96	1.45	53.1	7.02	95	0	3.71	55.9	7.05	0			0.0	
# OF DATA			5	5	5	5	5	5	31	5	5	5	31	31	5	5	5	31			31	31
TOTAL			10	375	32	11	296	34	2967	14	303	36	2946	453	19	291	36	901			36	190

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NPDES LIMITS AND ANALYSIS

Metals and Cyanide Analysis : All results are given in mg/l except mercury (Hg) which is given in ng/l.

INFLUENT									EFFLUENT								
Method: 24 hour composite (except for Hg, which is grab)									Site: Post Cl2 Tank								
Sample Characteristics		Hg	Cr	Cu	Pb		Ni	Zn	CN-	Hg	Cr	Cu	Pb		Ni	Zn	CN-
Sample Number		CO71900	CO1032	CO1042	CO1051		CO1074	CO1092	CO0720	CO71900	CO1032	CO1042	CO1051		CO1074	CO1092	CO0720
Sample Type	Permit Condition	Grab	24 Hour	24 Hour	24 Hour		24 Hour	24 Hour	24 Hour	Grab	24 Hour	24 Hour	24 Hour		24 Hour	24 Hour	24 Hour
	Monitored	Grab	24 Hour	24 Hour	24 Hour		24 Hour	24 Hour	24 Hour	Grab	24 Hour	24 Hour	24 Hour		24 Hour	24 Hour	24 Hour
Frequency	Permit Condition	6 X Annual	4 X Annual	2-31 Days	4 X Annual		4 X Annual	4 X Annual	2-31 Days	6 X Annual	4 X Annual	2-31 Days	4 X Annual		4 X Annual	4 X Annual	2-31 Days
	Monitored	6 X Annual	4 X Annual	2-31 Days	4 X Annual		4 X Annual	4 X Annual	2-31 Days	6 X Annual	4 X Annual	2-31 Days	4 X Annual		4 X Annual	4 X Annual	2-31 Days
Parameter Limits	Daily Maximum											0.055					0.016
	Monthly Average											0.024					0.016
1st Date:	January 4th, 20			0.080								0.014					
2nd Date:	January 11th, 20		0.093	0.150	0.006		0.058	0.120	<0.005			0.023					0.005
3rd Date:	January 18th, 20			0.094								0.016					
4th Date:	January 20th, 20									<0.005	0.019	<0.005		0.015	0.038	<0.005	
5th Date:	January 25th, 20		<0.005	0.045	<0.010		0.016	0.066	<0.005			0.011					<0.005
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*See Note 0	NA	NA	NA	NA	0
Average			0.048	0.092	0.006		0.037	0.093	<0.003		<0.003	0.017	<0.003		0.015	0.038	0.003
Maximum			0.093	0.150	0.006		0.058	0.120	<0.005		<0.005	0.023	<0.005		0.015	0.038	0.005

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

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	3.5	3.3	8	7	289	225	9	8	324	268	1.57	1.04	51	32	9.8	7.66			
Total				0		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: Jan-06
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

Page 6 of 6
 Permit # IN0025577
 Expires 10-31-2009
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

Total lbs Volatile Solids to Digester 2,673

Overall Percent Removal of Volatile Solids 53.7%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 21,305

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 462

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 49

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 1,068

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 30

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

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

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	27%	40%	4%
Secondary Treatment :	77%	68%	23%
Adv. Sec. Treatment :	67%	68%	95%
Overall Treatment :	95%	94%	96%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	7.6	1.7	3.8
Secondary Settling Tank	5.6	1.2	2.8
Final Settling Tank	17.4	3.8	8.6
Total Plant Retention Time	30.6	6.7	15.1

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
Primary Settling Tank	923	202	407
Secondary Settling Tank	1219	266	537
Final Settling Tank	621	136	274

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
Primary Settling Tank	18	4	8
Secondary Settling Tank	15	3	6
Final Settling Tank	14	3	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:

January 3,10,19,24 - Successful test of emergency power generator and automatic transfer switch

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: _____

