

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Dec-09
 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	Tue	4.0					0.00	7.48	77	80	16.00	7.28	65	58	13.60	7.21	13	26	5.92	4.5		2.3		0.72	5.4	0.36	
2	Wed	4.0		0.10			0.00	7.59	105	122	16.20	7.24	80	68	16.30	7.25	15	28	7.64	4.5		2.3		0.73	5.4	0.36	
3	Thu	5.4		0.16		0.6	0.00	7.64	88	158	12.20	7.33	61	76	12.45	7.21	17	39	7.10	5.0		2.7		0.44	6.1	0.14	
4	Fri	3.6					0.00	7.47	98	76	15.50	7.31	73	56	15.80	7.34	11	23	6.68	4.5		1.9		0.78	5.5	0.52	
5	Sat	3.6	4.0				0.00	7.34	53	100	15.25	7.21	52	52	13.80	7.23	11	25	7.88	4.5		1.7		0.74	5.5	0.54	
6	Sun	3.5					0.00	7.28	98	70	14.40	7.16	73	54	14.45	7.16	11	21	7.15	4.5		1.7		0.78	5.4	0.56	
7	Mon	3.6					0.00	7.37	110	75	13.90	7.20	77	56	12.80	7.20	9	22	5.92	4.5		2.1		0.84	5.5	0.53	
8	Tue	3.9		0.24			0.00	7.31	82	110	12.20	7.13	70	70	11.00	7.14	12	32	5.11	4.5	45	2.4		0.79	5.4	0.40	
9	Wed	7.9		0.18		7.7	0.00	7.42	71	138	5.37	7.38	53	108	6.83	7.31	20	48	4.98	6.7		3.5		0.30	8.3	0.05	
10	Thu	3.6		0.04			0.00	7.59	33	106	11.40	7.49	68	74	11.05	7.47	14	32	6.65	4.6		2.3		0.93	5.7	0.59	
11	Fri	3.5					0.00	7.48	90	92	9.89	7.36	78	80	10.10	7.30	12	28	6.05	4.6		2.0		0.90	5.6	0.59	
12	Sat	3.4	4.2	0.13			0.00	7.43	88	94	8.19	7.23	67	82	9.56	7.11	11	26	5.31	4.7		1.8		0.91	5.6	0.66	
13	Sun	4.8		0.09		0.7	0.00	7.31	93	134	5.35	7.17	76	112	6.58	7.22	13	26	4.03	4.9		2.0		0.44	5.7	0.19	
14	Mon	3.8		0.03			0.00	7.38	83	87	6.60	7.24	63	56	6.28	7.13	9	20	3.42	4.6		2.1		0.77	5.5	0.44	
15	Tue	3.4					0.00	7.36	235	70	16.40	7.25	77	64	17.60	7.20	11	16	8.48	4.6		2.3		1.01	5.5	0.60	
16	Wed	3.4					0.00	7.38	160	146	16.75	7.24	93	62	16.60	7.20	14	24	10.20	4.6		2.3		1.04	5.5	0.63	
17	Thu	3.7					0.00	7.29	118	104	16.20	7.17	85	62	15.55	7.14	13	22	8.57	4.6		2.3		0.89	5.6	0.52	
18	Fri	3.5		0.05			0.00	7.32	115	90	16.00	7.15	79	62	15.30	7.06	13	20	9.06	4.7		2.0		0.86	5.5	0.54	
19	Sat	3.6	3.7	0.04			0.00	7.26	115	96	14.35	7.14	86	60	14.40	7.16	11	11	8.74	4.6		1.8		0.78	5.4	0.51	
20	Sun	3.5		0.13			0.00	7.38	104	86	5.54	7.19	71	66	5.52	7.16	11	19	3.05	4.6		1.8		0.79	5.5	0.54	
21	Mon	3.5					0.00	7.43	100	84	6.62	7.31	76	66	6.58	7.25	12	18	2.71	4.5		2.1		0.86	5.5	0.56	
22	Tue	3.7		0.07			0.00	7.42	103	102	11.00	7.32	69	68	11.80	7.29	12	24	8.06	4.5		2.3		0.82	5.4	0.46	
23	Wed	3.6		0.12			0.00	7.55	135	156	24.80	7.36	80	68	23.90	7.36	10	18	12.20	4.5		2.3		0.89	5.4	0.49	
24	Thu	3.9		0.12			0.00	7.44	80	284	23.70	7.31	83	120	22.80	7.29	16	37	12.60	4.7		2.4		0.80	5.7	0.45	
25	Fri	9.1		0.46		15.4	0.00	7.44	29	42	8.33	7.35	33	101	11.90	7.48	14	45	7.66	7.0		3.7	90	0.17	9.3	0.02	
26	Sat	6.1	4.8	0.18			0.00	7.90	37	38	10.55	7.59	38	68	11.10	7.32	14	35	7.20	5.4		2.8		0.33	6.8	0.10	
27	Sun	3.6		0.10			0.00	7.54	95	68	15.90	7.46	74	60	14.90	7.42	14	22	8.73	4.6		1.7		0.79	5.4	0.52	
28	Mon	3.5		0.01			0.00	7.47	63	82	17.30	7.36	54	60	16.10	7.30	9	16	8.80	4.5		2.1		0.87	5.5	0.56	
29	Tue	3.6					0.00	7.51	92	74	16.70	7.31	69	68	17.30	7.23	11	18	10.30	4.5		2.3		0.87	5.5	0.53	
30	Wed	3.6		0.05			0.00	7.49	103	86	17.45	7.28	74	78	15.40	7.26	11	24	9.31	4.5		2.3		0.89	5.5	0.52	
31	Thu	3.7		0.03			0.00	7.43	68	114	11.50	7.28	78	56	12.00	7.24	10	12	6.88	4.5		2.2		0.82	5.6	0.50	
AVERAGE		4.1		0.08		0.8	0.00	7.44	94	102	13.28	7.28	70	71	13.20	7.25	12	25	7.30	4.8	1	2.2	3	0.76	5.8	0.45	
MAXIMUM		9.1	4.8	0.46		15.4	0.00	7.90	235	284	24.80	7.59	93	120	23.90	7.48	20	48	12.60	7.0	45	3.7	90	1.04	9.3	0.66	
MINIMUM		3.4		0.01		0.0	0.00	7.26	29	38	5.35	7.13	33	52	5.52	7.06	9	11	2.71	4.5	45	1.7	90	0.17	5.4	0.02	
# OF DATA		31		20		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1	31	1		31		
TOTAL		128		2.33		24	0	231	2923	3164	412	226	2173	2191	409	225	379	776	226	148	45	70	90		179		

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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	Tue	3.1	7.32	2		73		6		183		0.40		13		9.7				
2	Wed	3.0	7.33	3		89		10		330		0.19		6		9.4				
3	Thu	4.3	7.28	3		129		11		491		0.17		8		9.9				
4	Fri	2.7	7.37	< 2		30		2		60		0.14		4		9.8				
5	Sat	2.7	7.32	< 2	1	30	59	5	6	148	217	0.19	0.18	6	6	9.5				
6	Sun	2.6	7.28	< 2		29		6		160		0.12		4		10.1				
7	Mon	2.6	7.27	2		69		3		90		0.15		4		9.9				
8	Tue	2.9	7.23	< 2		32		10		323		0.11		4		10.1				
9	Wed	6.8	7.26	8		523		18		1191		0.31		21		10.4				
10	Thu	2.8	7.39	2		62		4		104		0.22		7		11.1				
11	Fri	2.7	7.57	2		59		7		205		0.17		5		10.6				
12	Sat	2.6	7.38	< 2	2	28	115	7	8	196	324	0.11	0.17	3	7	10.2				
13	Sun	3.9	7.28	2		92		5		180		0.11		4		10.0				
14	Mon	3.0	7.31	< 2		32		7		223		0.10		3		9.9				
15	Tue	2.6	7.30	< 2		29		1		29		0.17		5		10.2				
16	Wed	2.5	7.30	3		82		8		226		0.27		8		10.4				
17	Thu	2.8	7.38	3		79		8		229		0.14		4		10.3				
18	Fri	2.6	7.29	2		68		5		148		0.15		4		10.3				
19	Sat	2.7	7.34	< 2	2	30	59	4	5	120	165	0.15	0.16	4	5	10.2				
20	Sun	2.6	7.47	2		62		3		89		0.07		2		10.3				
21	Mon	2.6	7.49	< 2		30		2		59		0.04		1		10.4				
22	Tue	2.8	7.42	< 2		31		7		200		0.19		6		10.1				
23	Wed	2.7	7.58	2		60		6		180		0.18		5		10.1				
24	Thu	3.0	7.45	< 2		33		11		345		0.26		9		9.9				
25	Fri	7.8	7.35	5		366		15		1143		0.67		51		10.6				
26	Sat	5.2	7.37	4	2	210	113	15	8	769	398	0.33	0.25	17	13	11.4				
27	Sun	2.7	7.53	4		128		7		193		0.95		28		10.8				
28	Mon	2.7	7.38	2		68		1		30		0.17		5		10.5				
29	Tue	2.8	7.49	2		60		4		106		0.32		10		10.3				
30	Wed	2.8	7.36	2		69		9		269		0.26		8		10.0				
31	Thu	2.9	7.37	< 2		31		1		31		0.22		7		10.2				
AVERAGE		3.2	7.37	2		87		7		260		0.23		9		10.2				
MAXIMUM		7.8	7.58	8	2	523	115	18	8	1191	398	0.95	0.25	51	13	11.4				
MINIMUM		2.5	7.23	<2		28		1		29		0.04		1		9.4				
# OF DATA		31	31	31		31		31		31		31		31		31				
TOTAL		99	228	68		2712		204		8050		7		265		316.6				

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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	Tue						23	0	262	6	2	87	
2	Wed						26	0	259	6	2	84	
3	Thu						29	0	261	6	2	82	
4	Fri				27	27	19	0	262	6	2	85	
5	Sat						27	0	262	6	2	85	
6	Sun						24	0	259	6	2	84	
7	Mon						28	0	255	6	2	84	
8	Tue						24	0	252	6	2	84	
9	Wed						41	0	244	6	2	86	
10	Thu						21	0	263	6	2	85	
11	Fri						20	3	263	6	2	85	
12	Sat						20	0	260	6	2	84	
13	Sun						37	0	259	6	2	84	
14	Mon				20	54	21	0	253	6	2	85	
15	Tue						26	0	246	6	2	88	
16	Wed						20	0	274	6	2	84	
17	Thu						28	0	277	6	2	84	
18	Fri						30	0	277	6	2	83	
19	Sat						28	0	276	6	2	93	
20	Sun						22	0	274	6	2	87	
21	Mon						34	0	257	6	2	84	
22	Tue						20	0	280	6	2	86	
23	Wed						25	0	282	6	2	84	
24	Thu						32	0	283	6	2	86	
25	Fri				27	41	43	0	288	6	2	88	
26	Sat						24	0	290	6	2	87	
27	Sun						21	0	286	6	2	89	
28	Mon						26	0	279	6	2	101	
29	Tue						22	0	276	6	2	86	
30	Wed						21	5	274	6	2	86	
31	Thu						28	0	271	6	2	86	
AVERAGE					2	4	26	0	268	6	2	86	
MAXIMUM					27	54	43	5	290	6	2	101	
MINIMUM					20	27	19	0	244	6	2	82	
# OF DATA					3	3	31	31	31	31	31	31	
TOTAL					74	122	811	7	8304	186	70	2665	

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	Tue								96					4				4					
2	Wed								96					13				29					
3	Thu								96					16				35			12		
4	Fri								96					11				27			80		
5	Sat								96					16				30			80		
6	Sun								96					14				30			80		
7	Mon		3.04	81.8	6.72	2.49	56.7	6.82	96					25	4.24	61.4	6.94	11			130		26
8	Tue								96					6				1			131		
9	Wed								96					29				56			123		
10	Thu								96					19				31			103		
11	Fri								96					7				16			89		
12	Sat								96					22				45	3.11		90		
13	Sun								96					26				47	1.84		90		
14	Mon		3.30	75.8	6.60	4.22	55.8	6.89	96					16	4.36	59.6	6.76	5			104		14
15	Tue								96					33				63	0.58		104		
16	Wed								96					10				26			104		
17	Thu								96					12				24			104		
18	Fri								96					21				34	0.94		105		
19	Sat								96					18				29			105		
20	Sun								96					20				37			105		
21	Mon		3.71	77.6	6.49	2.78	58.1	6.82	96					45	4.12	58.7	6.93	47			148		15
22	Tue								96					15				28			203		
23	Wed								96					23				37	1.25		261		
24	Thu								96					14				30			250		
25	Fri								96					33				66	0.50		237		
26	Sat								96					17				36	1.27		238		
27	Sun								96					18				28			238		
28	Mon		2.21	74.5		2.25	59.4	6.76	96					21	4.09	60.5	6.86	14			250		12
29	Tue								96					10				30			250		
30	Wed								96					17				42			249		
31	Thu								96					12				32			250		
AVERAGE			3.07	77.4	6.60	2.94	57.5	6.82	96					18	4.20	60.1	6.87	31	1.36		139		2
MAXIMUM			3.71	81.8	6.72	4.22	59.4	6.89	96					45	4.36	61.4	6.94	66	3.11		261		26
MINIMUM			2.21	74.5	6.49	2.25	55.8	6.76	96					4	4.09	58.7	6.76	1	0.50				0
# OF DATA			4	4	3	4	4	4	31					31	4	4	4	31	7	31	31		31
TOTAL			12	310	20	12	230	27	2969					560	17	240	27	971	9		4312		69

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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:	December 2nd	320.0	0.006	0.065	<0.005		<0.005	0.082	<0.005	13.1	<0.005	0.013	<0.005		<0.005	0.020	<0.005
2nd Date:	December 9th			0.053								0.015					
3rd Date:	December 16th		0.010	0.093	<0.005		0.007	0.067	<0.005			0.011					<0.005
4th Date:	December 23th			0.047								0.012					
5th Date:	December 30th			0.047								0.016					
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	0
Average		320.0	0.008	0.061	<0.003		0.005	0.075	<0.003	13.1	<0.003	0.013	<0.003		<0.003	0.020	<0.003
Maximum		320.0	0.010	0.093	<0.005		0.007	0.082	<0.005	13.1	<0.005	0.016	<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 (/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	4.8	4.1	2	2	115	87	8	7	398	260	0.25	0.23	13	9	9.4	7.58			
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: Dec-09
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

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

Total lbs Volatile Solids to Digester 5,178

Overall Percent Removal of Volatile Solids 56.2%

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	26%	31%	1%
Secondary Treatment :	83%	65%	45%
Adv. Sec. Treatment :	82%	74%	97%
Overall Treatment :	98%	94%	98%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 19,051

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 451

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	3.6	1.3	3.0
Secondary Settling Tank	2.7	1.0	2.2
Final Settling Tank	8.4	3.1	6.8
Chlorine Contact Tank	0.58	0.21	0.47
Total Plant Retention Time	14.7	5.4	12.0

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

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 751

Surface Flow Rate	Maximum	Minimum	Average
Gallons per sq ft per Day			
Primary Settling Tank	1142	420	515
Secondary Settling Tank	1507	554	680
Final Settling Tank	768	283	346

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 27

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

Weir OverFlow Rate	Maximum	Minimum	Average
1000 Gal per ft per Day			
Primary Settling Tank	22	8	10
Secondary Settling Tank	18	7	8
Final Settling Tank	18	6	8

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

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:

December 1-31, 2009 - Primary Digester #2 out of service for cleaning and repair

December 8, 2009 - North half of Fixed-Bed Trickling Filter taken out of service for winter operation

December 26, 2009 - Primary Clarifiers #1 and #2 out of service due to failure of power wires feeding to sludge collector drive.

December 28, 2009 - Primary Clarifiers #1 and #2 back in service.

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: _____

