

**MONTHLY REPORT OF OPERATION**

**Trickling Filter Wastewater Treatment Plant**

Date: Dec-05  
 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	Thu	2.0		0.10			0.00	7.59	175	124	29.92	7.36	143	44	33.93	7.51	21	10	26.95	4.6		2.4		2.48	8.3	3.16	
2	Fri	1.8		0.02			0.00	7.57	137	172	32.17	7.37	82	66	34.87	7.51	17	15	27.04	4.7		1.9		2.76	7.9	3.50	
3	Sat	2.0		0.06			0.00	7.49	80	112	28.68	7.41	79	58	31.55	7.52	19	17	23.91	4.8		1.7		2.28	7.9	3.03	
4	Sun	3.0		0.04			0.00	7.50	135	66	19.94	7.41	90	42	21.44	7.50	20	15	16.65	4.8		1.7		1.16	7.9	1.85	
5	Mon	2.3					0.00	7.60	125	111	26.30	7.51	112	48	26.71	7.60	14	14	18.20	4.7		2.1		1.93	7.9	2.43	
6	Tue	1.7		0.01			0.00	7.57	190	158	32.61	7.44	133	68	33.32	7.45	16	17	24.21	4.6	100	2.3		3.11	8.3	3.97	
7	Wed	1.6					0.00	7.49	115	141	34.03	7.40	88	62	34.80	7.48	19	15	26.60	4.7		2.3		3.37	8.3	4.20	
8	Thu	1.8		0.20		0.2	0.00	7.74	106	240	33.30	7.43	79	78	35.98	7.53	21	21	26.71	4.6		2.3		2.78	6.2	2.43	
9	Fri	1.9		0.04			0.00	7.59	32	220	31.06	7.49	115	79	36.10	7.64	18	39	29.08	4.7		1.9		2.43	7.9	3.08	
10	Sat	1.7	2.0	0.08			0.00	7.60	223	142	33.18	7.51	138	78	36.63	7.62	19	16	30.83	4.8		1.7		2.85	7.9	3.70	
11	Sun	3.1		0.19			0.00	7.49	130	76	20.99	7.49	109	68	24.92	7.64	22	17	19.71	4.8		1.7		1.12	7.9	1.58	
12	Mon	3.1					0.00	7.44	73	85	21.14	7.42	85	52	22.15	7.40	22	19	18.44	4.7		2.1		1.18	7.9	1.55	
13	Tue	1.8					0.00	7.75	95	168	39.73	7.43	102	86	29.26	7.45	23	19	20.60	4.6		2.3		2.87	8.3	3.70	
14	Wed	1.8		0.04			0.00	7.71	58	144	56.77	7.53	125	66	33.68	7.52	20	17	24.08	4.6		2.3		2.82	8.3	3.64	
15	Thu	2.2					0.00	7.57	220	206	37.72	7.41	140	80	34.66	7.45	22	19	27.97	4.6		2.3		2.10	8.3	2.77	
16	Fri	1.7		0.04			0.00	7.75	235	128	33.77	7.52	153	65	37.31	7.59	20	15	25.33	4.7		1.9		2.88	7.9	3.68	120
17	Sat	1.6	2.2				0.00	7.63	145	106	33.77	7.43	94	70	32.85	7.58	21	15	24.25	4.8		1.7		3.14	7.9	4.10	
18	Sun	1.5		0.02			0.00	7.74	180	100	32.99	7.44	19	70	31.80	7.49	17	15	22.92	4.8		1.7		3.22	7.9	4.21	
19	Mon	1.6		0.04			0.00	7.68	133	170	37.19	7.48	63	78	35.12	7.49	18	19	24.90	4.6		2.0		3.11	7.9	3.90	
20	Tue	2.0					0.00	7.63	73	122	55.71	7.50	120	70	31.89	7.55	21	16	25.33	4.5		2.2		2.37	6.9	2.42	
21	Wed	3.1					0.00	7.48	110	152	25.76	7.48	118	72	24.47	7.48	24	18	18.29	4.5		2.2		1.20	8.3	1.72	
22	Thu	1.9					0.00	7.60	97	192	54.95	7.49	83	92	36.51	7.57	11	21	24.95	4.5		2.2		2.64	8.3	3.50	
23	Fri	2.2					0.00	7.63	110	234	36.65	7.45	145	87	35.60	7.53	28	25	27.79	4.7		1.8		2.00	7.9	2.66	
24	Sat	2.2	2.1	0.05			0.00	7.74	210	164	26.34	7.55	160	106	28.34	7.55	27	21	21.24	4.7		1.6		1.92	7.9	2.63	
25	Sun	2.2		0.04			0.00	7.89	163	98	27.20	7.60	135	62	26.66	7.58	17	15	18.44	4.7		1.7		1.88	7.9	2.53	
26	Mon	3.5		0.27			0.00	7.51	85	61	18.13	7.34	30	52	16.04	7.41	13	18	11.73	4.6		2.1		0.93	7.9	1.27	
27	Tue	3.1		0.02			0.00	7.58	140	102	24.47	7.42	98	58	23.65	7.47	20	15	16.04	4.5		2.2		1.17	8.3	1.70	
28	Wed	4.1		0.27		1.8	0.00	7.53	130	276	15.36	7.41	118	144	19.20	7.44	21	25	14.70	4.8		2.4		0.73	8.7	1.10	
29	Thu	2.8		0.05			0.00	7.66	140	98	23.20	7.48	79	48	20.91	7.50	27	21	17.70	4.5		2.2		1.38	8.3	1.95	
30	Fri	2.7		0.33		2.2	0.00	7.81	33	154	26.10	7.56	95	99	27.47	7.58	28	24	22.29	4.9		2.1		1.54	8.3	2.03	
31	Sat	2.5	3.0	0.07			0.00	7.65	140	98	27.37	7.39	64	64	22.38	7.37	22	17	19.33	4.7		2.1		1.66	7.9	2.09	
AVERAGE		2.3		0.06		0.1	0.00	7.62	130	143	31.50	7.46	103	71	29.68	7.52	20	18	22.46	4.7	3	2.0		2.16	8.0	2.77	4
MAXIMUM		4.1	3.0	0.33		2.2	0.00	7.89	235	276	56.77	7.60	160	144	37.31	7.64	28	39	30.83	4.9	100	2.4		3.37	8.7	4.21	120
MINIMUM		1.5		0.01		0.0	0.00	7.44	32	61	15.36	7.34	19	42	16.04	7.37	11	10	11.73	4.5	100	1.6		0.73	6.2	1.10	120
# OF DATA		31		21		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1	31			31		1
TOTAL		70		1.98		4	0	236	4018	4420	976	231	3190	2212	920	233	624	569	696	144	100	63		248		120	

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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	Thu	2.2	7.58	5		90		4		59		0.93		16		10.0				
2	Fri	2.0	7.56	5		68		5		66		1.65		24		9.8				
3	Sat	2.1	7.60	6		102		6		98		0.73		12		10.2				
4	Sun	3.1	7.59	6		147		3		62		0.73		18		10.4				
5	Mon	2.4	7.67	6		106		3		58		0.66		13		10.6				
6	Tue	1.9	7.56	6		77		3		45		0.63		9		11.0				
7	Wed	1.8	7.58	5		71		3		40		0.69		9		11.0				
8	Thu	2.0	7.65	13		189		7		109		3.03		46		10.1				
9	Fri	2.2	7.81	5		81		3		40		2.07		33		10.2				
10	Sat	2.0	7.77	5	6	67	105	4	4	49	58	1.31	1.30	18	21	10.3				
11	Sun	3.2	7.69	6		140		5		121		0.88		22		10.3				
12	Mon	3.2	7.48	7		183		4		90		0.92		24		10.3				
13	Tue	2.0	7.49	8		112		4		55		0.64		10		10.2				
14	Wed	2.0	7.60	5		81		4		60		0.62		9		10.3				
15	Thu	2.4	7.58	6		109		5		97		0.69		13		9.9				
16	Fri	1.9	7.72	5		71		2		28		0.60		8		10.0				
17	Sat	1.8	7.65	8	6	97	113	3	4	39	70	0.53	0.70	7	13	10.7				
18	Sun	1.8	7.69	10		127		4		54		0.34		4		10.9				
19	Mon	1.9	7.65	6		86		7		87		0.42		6		10.9				
20	Tue	2.2	7.61	6		99		5		88		0.75		13		11.0				
21	Wed	3.2	7.52	6		156		4		89		0.83		21		10.9				
22	Thu	2.1	7.55	7		104		7		108		0.78		12		10.7				
23	Fri	2.4	7.56	7		119		6		108		2.05		37		10.1				
24	Sat	2.3	7.80	6	7	113	115	7	6	127	95	1.51	0.95	27	17	9.7				
25	Sun	2.4	7.88	9		176		7		126		0.57		11		9.9				
26	Mon	3.6	7.58	7		211		4		115		0.68		20		10.9				
27	Tue	3.2	7.66	5		129		4		103		0.50		13		10.5				
28	Wed	4.2	7.61	8		276		9		293		0.83		29		10.1				
29	Thu	3.0	7.66	6		144		4		94		0.58		14		10.6				
30	Fri	2.9	7.71	19		433		7		160		4.49		102		10.3				
31	Sat	2.7	7.45	7	9	150	217	6	6	117	144	2.92	1.51	62	36	10.3				
AVERAGE		2.4	7.63	7		133		5		90		1.11		21		10.4				
MAXIMUM		4.2	7.88	19	9	433	217	9	6	293	144	4.49	1.51	102	36	11.0				
MINIMUM		1.8	7.45	5		67		2		28		0.34		4		9.7				
# OF DATA		31	31	31		31		31		31		31		31		31				
TOTAL		76	236	215		4111		145		2788		35		661		322.1				

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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	Thu					20	0	280	6	4	222		
2	Fri					20	0	277	6	4	219		
3	Sat					20	0	272	6	4	215		
4	Sun					20	0	276	6	4	221		
5	Mon					20	0	280	6	4	214		
6	Tue					20	0	277	6	4	213		
7	Wed					20	0	281	5	4	213		
8	Thu					19	7	283	5	4	207		
9	Fri					20	0	290	6	4	218		
10	Sat					20	4	293	6	4	207		
11	Sun					20	0	295	6	4	204		
12	Mon					20	0	297	6	4	212		
13	Tue					20	0	298	6	4	205		
14	Wed					20	0	295	6	4	203		
15	Thu					20	0	294	6	4	204		
16	Fri				27	20	0	294	6	4	205		
17	Sat					20	0	294	6	4	204		
18	Sun					20	0	294	6	4	203		
19	Mon					20	0	294	6	4	204		
20	Tue					20	0	293	6	4	204		
21	Wed					20	0	291	6	4	205		
22	Thu					20	0	293	6	4	205		
23	Fri					20	3	289	6	4	206		
24	Sat					20	0	289	6	4	206		
25	Sun					20	0	292	6	4	204		
26	Mon				27	20	0	293	6	4	205		
27	Tue					20	5	294	6	4	206		
28	Wed					23	0	288	6	4	182		
29	Thu					20	0	293	6	4	209		
30	Fri					24	0	291	6	4	208		
31	Sat					20	0	288	6	4	208		
AVERAGE					2	20	1	289	6	4	208		
MAXIMUM					27	24	7	298	6	4	222		
MINIMUM					27	19	0	272	5	4	182		
# OF DATA					2	31	31	31	31	31	31		
TOTAL					54	615	20	8957	184	138	6440		

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		
<b>% Total Solids</b>		

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	Thu								96				95	8				22			0.7	
2	Fri								96				95	16				33			0.8	
3	Sat								96				95	13				28			0.9	
4	Sun								96				95	11				26			0.8	
5	Mon		2.04	79.9	5.82	1.55	60.9	6.89	96	3.43	59.3	7.12	95	35	3.56	59.2	7.00	22			0.8	36
6	Tue								96				95	6				2			0.7	
7	Wed								96				95	8				6			0.7	
8	Thu								95				94	17				48			1.2	
9	Fri								96				93	14				40			1.5	
10	Sat								96				93	19				50			1.5	
11	Sun								96				93	12				35			1.4	
12	Mon		2.64	82.9	6.03	1.52	60.0	6.85	96	1.56	58.3	7.17	94	31	3.61	60.7	6.93	12			1.4	37
13	Tue								96				94	5				0			1.4	
14	Wed								96				94	4				1			1.4	
15	Thu								96				94	13				35			1.4	
16	Fri								96				94	13				39			1.4	
17	Sat								96				94	14				36			1.4	
18	Sun								96				94	12				34			1.4	
19	Mon		2.74	77.5	6.21	1.42	60.8	6.82	96	1.41	56.5	6.97	94	26	3.58	54.6	7.02	10			1.4	31
20	Tue								96				94	3				0			1.4	
21	Wed								96				94	9				17			1.4	
22	Thu								96				95	10				36			1.4	
23	Fri								96				95	17				46			1.3	
24	Sat								96				95	12				38			1.3	
25	Sun								96				95	11				37			1.3	
26	Mon		4.22	80.9	5.89	2.78	65.4	6.75	96	3.74	62.7	7.15	95	31	1.50	56.0	7.02	13			1.3	36
27	Tue								96				95	6				0			1.2	
28	Wed								96				95	10				24			1.2	
29	Thu								96				95	12				35			1.0	
30	Fri								96				95	14				45			0.1	
31	Sat								96				95	14				44			0.0	
AVERAGE			2.91	80.3	5.99	1.82	61.8	6.83	96	2.54	59.2	7.10	94	14	3.06	57.6	6.99	26			1.1	5
MAXIMUM			4.22	82.9	6.21	2.78	65.4	6.89	96	3.74	62.7	7.17	95	35	3.61	60.7	7.02	50			1.5	37
MINIMUM			2.04	77.5	5.82	1.42	60.0	6.75	95	1.41	56.5	6.97	93	3	1.50	54.6	6.93	0			0.0	
# OF DATA			4	4	4	4	4	4	31	4	4	4	31	31	4	4	4	31			31	31
TOTAL			12	321	24	7	247	27	2964	10	237	28	2929	426	12	231	28	815			35	140

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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 7th		0.006	0.098	0.006		0.024	0.110	<0.005		<0.005	0.018	<0.005		0.015	0.030	<0.005
2nd Date :	December 14th	26.0		0.100						5.0		0.014					
3rd Date :	December 21st		0.008	0.110	0.005		0.031	0.120	<0.005			0.015					<0.005
4th Date :	December 28th			0.110								0.013					
5th Date :																	
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	0
Average		26.0	0.007	0.105	0.006		0.028	0.115	<0.003	5.0	<0.003	0.015	<0.003		0.015	0.030	<0.003
Maximum		26.0	0.008	0.110	0.006		0.031	0.120	<0.005	5.0	<0.005	0.018	<0.005		0.015	0.030	<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	3.0	2.3	9	7	217	133	6	5	144	90	1.51	1.11	36	21	9.7	7.88			
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-05  
 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 3,865

Overall Percent Removal of Volatile Solids 66.6%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 14,422

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 441

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 47

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 1,038

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

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

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

#### Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	21%	50%	6%
Secondary Treatment :	80%	74%	24%
Adv. Sec. Treatment :	66%	75%	95%
Overall Treatment :	95%	97%	96%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	8.0	3.0	5.4
Secondary Settling Tank	5.9	2.2	4.0
Final Settling Tank	18.5	6.8	12.4
Total Plant Retention Time	32.4	11.9	21.7

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
Primary Settling Tank	516	190	284
Secondary Settling Tank	682	251	374
Final Settling Tank	348	128	191

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
Primary Settling Tank	10	4	6
Secondary Settling Tank	8	3	4
Final Settling Tank	8	3	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:

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: \_\_\_\_\_

