



**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**

State Form 10829 (R/1-2005)

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Name of Facility Clay Township Regional Waste District		Permit Number IN0055760	
Month January	Year 2008	Plant Design Flow 2.55 mgd	Telephone Number (317) 873-0564
Facility's e-mail address (if available): scot@ctrwd.org			
Certified Operator: Name Scot S. Watkins		Class III	Certificate Number WVW018132
		Expiration Date 6/30/2008	

Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature	Total= 2.22	Precipitation - Inches	Bypass At Plant Site ("X" If Occurred)	Collection System Overflow ("X" If Occurred)	CHEMICALS USED			RAW SEWAGE													
								Chlorine - Lbs	Liquid Alum - Gallons	Lbs or Gal	Influent Flow Rate (MGD)	pH	CBOD5 - mg/l	CBOD5 - lbs	Susp. Solids - mg/l	Susp. Solids - lbs	Phosphorus - mg/l	Ammonia - mg/l						
29	Sat										1.586													
30	Sun										2.076													
31	Mon										1.654													
Fill in December's effluent data on page 3 as necessary for correct weekly average calculations.																								
1	Tue		30								1.703	7.6	515	7314.6	628	8919.5	10.34	21.7						
2	Wed		18								1.769	7.5	722	10652	994	14665	10.97	25.7						
3	Thu		28			X					1.688	7.6	164	2308.8	108	1520.4	5.57	23						
4	Fri		39								1.894	7.5	830	13111	1604	25337	18.71	25.9						
5	Sat			0.03							1.624													
6	Sun			0.05							1.58													
7	Mon		68								1.647	7.5	281	3859.8	288	3956	6.44	24						
8	Tue		62	1.66		X					2.645	7.6	188	4147.1	278	6132.5	5.62	16						
9	Wed		48								2.066	7.6	179	3084.2	174	2998.1	3.9	15.5						
10	Thu		54	0.18							1.956	7.5	157	2561.1	178	2903.7	4.42	18.7						
11	Fri		39								1.864	7.5	200	3109.2	232	3606.6	5.26	17.9						
12	Sat										1.874													
13	Sun			0.08							1.845													
14	Mon		28								1.774	7.5	254	3758	326	4823.2	7.05	22.3						
15	Tue		27								1.713	7.6	274	3914.5	434	6200.3	6.89	25.5						
16	Wed		36								1.708	7.6	230	3276.3	274	3903.1	6.08	24						
17	Thu		36	0.02							1.657	7.5	201	2777.7	298	4118.2	6.63	27.5						
18	Fri		30								1.704	7.6	313	4448.2	400	5684.5	8.96	24.8						
19	Sat										1.655													
20	Sun										1.639													
21	Mon		32								1.622	7.5	294	3977.1	274	3706.5	7.03	23.9						
22	Tue		32								1.65	7.5	258	3550.3	292	4018.2	6.74	27.2						
23	Wed		32								1.598	7.5	298	3971.5	328	4371.4	7.42	29.1						
24	Thu		13								1.581	7.5	289	3810.6	342	4509.5	7.99	28.6						
25	Fri		25								1.857	7.6	271	4197.1	276	4274.5	7.51	23.7						
26	Sat										1.645													
27	Sun										1.335													
28	Mon		49								1.562	7.5	259	3374	316	4116.6	9.43	26.2						
29	Tue		54	0.2							1.617	7.5	292	3937.8	340	4585.2	8.24	25.2						
30	Wed		21								1.622	7.6	307	4152.9	276	3733.6	9.46	27.6						
31	Thu		29								1.51	7.5	310	3904	324	4080.3	8.2	25.7						
Average											1.72916		308	4486.8	391	5746.2	7.777	23.9						
Maximum				1.66							2.645	7.6	830	13111	1604	25337	18.71	29.1						
Minimum											1.335	7.5	157	2308.8	108	1520.4	3.9	15.5						
No. of Data				7	1	1	0	31	0	31	23	23	23	23	23	23	23	23	0					

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 fine and imprisonment for knowing violations.

(SIGNATURE OF CERTIFIED OPERATOR) (DATE)

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (DATE)

**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**

Name of Facility: Clay Township Regional Waste D
Permit Number: IN0055760
For Month Of: January
Year: 2008
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State Form 10829 (R/1-2005)

(SIGNATURE OF CERTIFIED OPERATOR) (DATE)

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (DATE)

Day Of Month	Temperature in Reactors	REACTOR # 1				REACTOR # 2				REACTOR DATA			RETURN SLUDGE		FINAL EFFLUENT				
		Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	#1 Reactor ORP mV	#1 Reactor OUR mg//min	#2 Reactor OUR mg//min	Volume - MG	Susp. Solids - mg/l	Residual Chlorine - Contact Tank	Residual Chlorine - Final	E. Coli - colony/100 ml	pH	
1	14	66	4000	165	0.1	64	3800	168	2.6	-30		0.591	10120				7.6		
2	13	58	3920	148	0.2	62	3620	171	4.5	36		0.57	9380				7.6		
3	13	50	3300	152	0.2	58	3360	173	4.9	92		0.64	9640				7.6		
4	13	59	3720	159	0.1	60	3540	169	2.4	43		0.71	11300				7.6		
5												0.62							
6										0.67	0.3	0.6							
7	15	67	4220	159	0.1	70	4220	166	2.6	-130		0.55	11640				7.6		
8	15	65	4080	159	0.1	61	4080	150	2.7	-327		0.94	10880				7.6		
9	14	58	3700	157	0.1	54	3580	151	5.0	-239		0.71	9200				7.6		
10	14	56	3880	144	0.1	56	3620	155	4.0	-277		0.75	9660				7.6		
11	14	60	3860	155	0.1	61	3600	169	3.8	-291		0.7	10100				7.6		
12											0.36	0.1	0.71						
13												0.7							
14	14	75	4200	179	0.1	73	4280	171	1.8	-333		0.58	11340				7.6		
15	13	74	4300	172	0.1	70	4200	167	1.9	-7		0.57	11300				7.6		
16	13	67	4120	163	0.1	67	3860	174	2.1	30		0.6	11380				7.5		
17	14	65	4100	159	0.1	65	3920	166	2.1	31		0.63	10920				7.5		
18	13	69	3800	182	0.1	69	3720	185	2.2	24		0.65	10940				7.5		
19												0.63							
20											0.41	0.2	0.62						
21	13	70	4340	161	0.1	70	4460	157	2.5	-7		0.62	11320				7.6		
22	13	77	4560	169	0.1	74	4180	177	1.5	-306		0.54	9760				7.6		
23	13	77	4360	177	0.1	74	4160	178	1.5	-322		0.48	11360				7.5		
24	13	65	3660	178	0.1	71	3960	179	2.4	-324		0.6	11780				7.5		
25	12	73	4060	180	0.1	74	4160	178	2.2	-317		0.71	10880				7.6		
26												0.62							
27											0.63	0.4	0.52						
28	13	79	4600	172	0.1	79	4400	180	2.6	-349		0.58	10640				7.5		
29	14	79	4760	166	0.1	90	4600	196	2.3	-130		0.54	11820				7.5		
30	12	84	4400	191	0.1	91	4380	208	2.7	-68		0.53	9920				7.5		
31	13	77	4760	162	0.1	72	4200	171	1.4	-28		0.52	11060				7.5		
Avg.	13.4	68	4117	165	0.109	69	3996	172	2.683		1	0.248	1	10710					
Max.	15	84	4760	191	0.2	91	4600	208	5		0.67	0.38	0.94	11820			7.6		
Min.	12	50	3300	144	0.1	54	3360	150	1.4		0.36	0.07	0.48	9200			7.5		
Data	23	23	23	23	23	23	23	23	23	23	4	0	4	31	23	0	0	0	23

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):
1. January 3rd clarifier 1 was taken out of service due to equipment failure. Bypass report was faxed. 2. January 8th a collection system overflow occurred. A bypass report was faxed.

**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**

(SIGNATURE OF CERTIFIED OPERATOR)	(DATE)
(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)	(DATE)

Name of Facility Clay Township Regional Waste District	Permit Number IN0055760	For Month Of: January	Year 2008
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Day Of Month	FINAL EFFLUENT																
	Flow		Dissolved Oxygen - mg/l	Phosphorus - mg/l	BOD				Total Suspended Solids				Ammonia				
	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average			CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - lbs	Ammonia - lbs/day Weekly Average	
29	1.527																
30	1.604																
31	1.429			2.72		32.436014		5.2		62.010026		0.1		1.1925005			
1	1.439		7.78	0.29	2.11	25.338		4.7		56.44		0.16		1.9214			
2	1.571		8.32	0.31	2.09	27.4		5.5		72.105		0.1		1.311			
3	1.788		8.45	0.3	3.12	46.553		5.7		85.049		0.1		1.4921			
4	1.6		7.92	0.26	2.27	30.309		5.7		76.106		0.1		1.3352			
5	1.618	1.57843				2.462		32.407		5.36		70.342		0.112		1.4504	
6	1.534																
7	1.558		8.27	0.26	3.02	39.265		3.5		45.505		1.14		14.822			
8	2.61		7.98	1.4	6.32	137.65		43.2		940.92		1.5		32.671			
9	2.059		8.14	0.23	1.94	33.334		3.7		63.575		0.1		1.7182			
10	1.653		7.8	0.21	1.85	25.519		2.6		35.865		0.1		1.3794			
11	1.575		7.89	0.32	1.73	22.738		3.7		48.63		0.1		1.3143			
12	1.583	1.796				2.972		51.702		11.34		226.9		0.588		10.381	
13	1.559																
14	1.499		7.7	0.24	2.14	26.77		4.4		55.04		0.14		1.7513			
15	1.447		7.86	0.21	1.58	19.079		4.3		51.923		0.24		2.8981			
16	1.443		7.83	0.18	1.58	19.026		4.4		52.984		0.29		3.4921			
17	1.4		7.6	0.21	1.42	16.59		4.3		50.237		0.36		4.2059			
18	1.44		7.83	0.28	2.32	27.879		4.2		50.471		0.27		3.2445			
19	1.398	1.45514				1.808		21.869		4.32		52.131		0.26		3.1184	
20	1.385																
21	1.371		7.77	0.52	2.06	23.568		4		45.764		0.15		1.7161			
22	1.394		7.69	0.37	1.79	20.823		4.5		52.348		0.39		4.5368			
23	1.35		7.7	0.2	1.79	20.166		1.7		19.152		0.54		6.0835			
24	1.336		7.78	0.25	1.03	11.483		2.9		32.332		0.28		3.1217			
25	1.569		7.86	0.34	2.48	32.471		4.9		64.157		0.45		5.892			
26	1.39	1.39929				1.83		21.702		3.6		42.751		0.362		4.27	
27	1.128																
28	1.32		7.96	0.31	1.54	16.964		4.1		45.163		0.94		10.354			
29	1.366		8.08	0.24	1.18	13.451		2.3		26.218		1.22		13.907			
30	1.371		7.86	0.28	2.13	24.369		4		45.764		1.6		18.306			
31	1.276	1.38271	7.84	0.27	2.11	1.994	22.468	23.071	4.2	4.6	44.723	53.641	0.89	1.094	9.4769	12.485	
Avg	1.5171		7.9091	0.3252	2.1565	29.705		5.7609		89.586		0.4852		6.3891			
Max	2.61	1.796	8.45	1.4	6.32	2.972	137.65	51.702	43.2	11.34	940.92	226.9	1.6	1.094	32.671	12.485	
Min	1.128	1.38271	7.6	0.18	1.03	1.808	11.483	21.702	1.7	3.6	19.152	42.751	0.1	0.112	1.311	1.4504	
Data	31	5	23	23	23	5	23	5	23	5	23	5	23	5	23	5	0

MONTHLY REMOVAL SUMMARY					Total Monthly Flow: (million gallons)
	BOD5	S.S.	Ammonia	Phosphorus	47.03
Percent Removal	99	99	98	95.8	
Phosphorus limit would be	1 mg/l.	(compliance achieved)			Percent Capacity (actual flow/design)
					59%

**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**

(SIGNATURE OF CERTIFIED OPERATOR) (Date)

Name of Facility: Clay Township Region
Permit Number: IN0055760
For Month Of: January
Year: 2008

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (Date)

Day Of Month	SLUDGE TO DIGESTER		DIGESTER OPERATION											
	Waste Act. Sludge Gal. x 1000	pH	Anaerobic Only			Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
			Gas Production Cubic Ft. x 1000	Temperature - F										
1	51						1.1		75		311			
2	61						1.1		75					
3														
4														
5					26						19			
6					46									
7	51						1.3		76					
8	50						1.2		75					
9	36						1		74					
10														
11					55						50			
12					60						43			
13														
14							1.2		75					
15	50						1.2		76					
16	51						1.2		76					
17	27													
18					82									
19														
20														
21														
22	50						1.3		76					
23	51						1.3		76					
24	33						1.3		75					
25					40									
26					17									
27														
28														
29	50													
30	50						1.1		75					
31	37						1.2		76					
Avg.	46.286				46.571		1.1923		75.385		105.75			
Max.	61				82		1.3		76		311			
Min.	27				17		1		74		19			
Data	0	14	0	0	0	7	0	13	0	13	0	4	0	0

Send completed forms by the 28th of the month to:
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY, DATA MANAGEMENT SECTION
P.O. BOX 6015
INDIANAPOLIS, INDIANA 46206-6015

**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**

Name of Facility Clay Township Regional Waste District	Permit Number IN0055760	For Month Of January	Year 2008
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(SIGNATURE OF CERTIFIED OPERATOR)	(DATE)
(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)	(DATE)

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Day Of Month	Temperature in Reactors	ORBAL #1			ORBAL #3				TOTAL RETURN SLUDGE				RETURN SLUDGE		Flow Volume					
		ORP mV	Dissolved Oxygen - mg/l	OUR mg/l/min	Dissolved Oxygen - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	OUR mg/l/min	Volume - MG				Volume - MG	Susp. Solids - mg/l	Orbal Influent Flow - MGD				
1		-194	0.52		1.1	67	3640	184		1.34				0.75	4000	1.1				
2		-305	0.52		1.3	75	3360	223		1.45				0.88	5240	1.13				
3		-327	0.58		1.2	63	3380	186		1.38				0.74	4720	0.89				
4		-333	0.57		2.4	60	3620	166		1.46				0.75	4700	1.07				
5										1.24				0.63		0.85				
6									0.6	1.16				0.56		0.79				
7		-301	0.4		1.2	65	4240	153		1.23				0.68	5860	0.89				
8		-319	0.58		1.1	65	3800	171		1.58				0.65	6880	1.28				
9		-322	0.58		1.3	44	3060	144		1.34				0.63	8320	1.13				
10		-122	0.58		2.5	57	3420	167		1.6				0.86	7660	1.19				
11		77	0.58		1.3	60	3300	182		1.42				0.72	5900	1.16				
12									0.0	1.41				0.69		1.14				
13										1.43				0.73		1.17				
14		-89	0.58		1.1	75	3920	191		1.32				0.73	5520	1.09				
15		-115	0.58		1.2	77	3880	198		1.26				0.69	5720	1.01				
16		-136	0.58		1.1	66	3740	176		1.34				0.74	6620	1.02				
17		-244	0.58		1.1	68	3660	186		1.32				0.69	5440	0.97				
18		-313	0.58		1.2	70	3560	197		1.3				0.65	4720	0.99				
19										1.3				0.66		0.97				
20									0.2	1.31				0.69		0.99				
21		-331	0.52		1.1	69	4120	167		1.18				0.57	5080	0.93				
22		-314	0.52		1.1	77	3960	194		1.26				0.72	3780	0.96				
23		-186	0.52		1.1	77	4380	176		1.15				0.67	7100	0.9				
24		-132	0.52		1.1	70	4300	163		1.32				0.71	6180	0.91				
25		-251	0.52		1.2	75	3860	194		1.47				0.77	6140	1.04				
26										1.25				0.63		0.85				
27									0.6	1.02				0.5		0.69				
28		-53	0.52		1.1	75	3940	190		1.17				0.58	5200	0.82				
29		-293	0.52		1.0	80	4220	190		1.15				0.61	10740	0.78				
30		-324	0.52		1.0	87	4080	213		1.18				0.64	10720	0.82				
31		-328	0.52		1.1	81	4080	199		1.24				0.73	5520	0.88				
Avg.			1		1.2478	70	3805	183	0.3325	1				1	6163.5	0.981				
Max.			0.58		2.48	87	4380	223	0.6	1.6				0.88	10740	1.28				
Min.			0.4		1	44	3060	144	0.02	1.02				0.5	3780	0.69				
Data	0	23	23	0	23	23	23	23	4	31	0	0	0	31	23	31	0		0	0