



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

State Form 10829 (R/1-2005)

Page 1 of 5

Name of Facility Clay Township Regional Waste Dist.			Permit Number IN 0055760		
Month August	Year 2007	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 WW018132	Expiration Date 6/30/2008	

Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature	Precipitation - Inches	Bypass At Plant Site ("x" If Occurred)	Collection System Overflow ("x" If Occurred)	CHEMICALS USED			RAW SEWAGE									
							Chlorine - Lbs	Alum Gal	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		
1	Wed		94					30	1.598	7.4	164	2185.7	216	2878.7	6.21	25.9			
2	Thu		94					55	1.71	7.4	197	2809.5	216	3080.5	6.28	22.6			
3	Fri		92					25	1.526	7.4									
4	Sat			0.01				35	1.695										
5	Sun			0.01				55	1.627										
6	Mon		91	0.05				30	1.645	7.4									
7	Tue		93					30	1.579	7.4	207	2726	216	2844.5	6.49	30.4			
8	Wed		95					40	1.618	7.4	208	2806.8	196	2644.8	6.77	28.1			
9	Thu		96					70	1.563	7.4	189	2463.7	220	2867.8	6.97	28.6			
10	Fri		90					50	1.755	7.5									
11	Sat							50	1.488										
12	Sun							20	1.239										
13	Mon		90					50	1.272	7.4									
14	Tue		92	0.05				30	1.283	7.3	254	2717.9	436	4665.3	8.96	27.8			
15	Wed		92					40	1.585	7.3	202	2670.2	256	3384	7.24	26.1			
16	Thu		92					50	1.583	7.4	208	2746.1	194	2561.2	6.05	26.2			
17	Fri		89					45	1.57	7.4									
18	Sat							35	1.473										
19	Sun			0.43				30	1.542										
20	Mon		89	1.25				40	1.699	7.4									
21	Tue		84	0.03				40	1.606	7.4	203	2719	204	2732.4	5.74	20.4			
22	Wed		92					55	1.476	7.4	186	2289.6	224	2757.4	6.53	20.8			
23	Thu		98					45	1.6	7.4	187	2495.3	194	2588.7	5.72	24.8			
24	Fri		96	0.65				75	2.025	7.4									
25	Sat			0.48				40	1.807										
26	Sun							35	1.517										
27	Mon		86					70	1.678	7.4									
28	Tue		92					30	1.633	7.4	158	2151.8	212	2887.3	6.2	28.9			
29	Wed		94	0.01				50	1.635	7.4	168	2290.8	204	2781.7	6.04	27.6			
30	Thu		80	0.05				30	1.685	7.4	157	2206.3	198	2782.5	6.55	32.4			
31	Fri		80					60	1.848	7.4									
Average								43.226	1.59871		192	2519.9	228	2961.2	6.554	26.47			
Maximum								75	2.025	7.5	254	2809.5	436	4665.3	8.96	32.4			
Minimum								20	1.239	7.3	157	2151.8	194	2561.2	5.72	20.4			
No. of Data							11	0	0	0	31	0	31	23	14	14	14	14	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: IN 0055760
For Month Of: August
Year: 2007

Page 2 of 5 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/l/min	0	#2 Reactor OUR mg/l/min	Volume - MG	Susp. Solids - mg/l	Residual Chlorine - Contact Tank	Residual Chlorine - Final	E. Coll - colony/100 ml	pH
1	21.4	62	3140	197	0.1	59	2140	276	2.2	-111				1.325	8580			4.1	7.5
2	2.18	61	4140	147	0.1	58	3860	150	2.2	-97	1.16	#####	0.3	1.497	11100			23.7	7.5
3	21.6	64			0.1	63			2.2	-121				1.424					7.6
4														1.446					
5														1.385					
6	22	73			0.1	68			2.7	-261				1.381					7.6
7	22.2	67	4280	157	0.1	67	4060	165	3.1	-200				1.317	11360			3.1	7.6
8	22.5	67	3940	170	0.1	64	3940	162	2.8	-164				1.345	11040			5.1	7.6
9	22.6	59	3620	163	0.1	56	3520	159	2.3	-197				1.413	10200			1	7.5
10	22.6	62			0.1	64			2.0	-181	1.13	#####	0.4	1.568					7.5
11														1.362					
12														1.144					
13	22.3	71			0.1	67			2.8	-115				1.128					7.6
14	22	67	4200	160	0.1	63	3940	160	2.6	-107				1.087	12420			4.1	7.6
15	22	63	3880	162	0.1	69	4280	161	3.4	-66				1.288	13800			2	7.6
16	22	60	3560	169	0.1	62	3560	174	2.0	-111				1.39	11320			73.5	7.6
17	22	62			0.1	69			2.2	-111	1.05	#####	0.3	1.335					7.6
18														1.313					
19														1.313					
20	22	77			0.1	75			2.3	-214				1.344					7.6
21	22	74	4160	178	0.1	75	4200	179	2.2	-126				1.328	10780			19.5	7.6
22	22	68	3980	171	0.1	68	3880	175	2.2	-97				1.258	10600			52.1	7.6
23	22	64	3640	176	0.1	64	3640	176	1.5	-105				1.319	10280			18.5	7.5
24	22	65			0.1	62			2.5	-124				1.614					7.6
25														1.357					
26														1.185					
27	22	71			0.1	77			2.5	-153				1.259					7.6
28	22	71	4080	174	0.1	69	3980	173	2.4	-124				1.254	10820			1	7.6
29	22	69	3920	176	0.1	66	3980	166	2.1	-127				1.277	10120			1	7.6
30	22	63	3720	169	0.1	65	3780	172	2.5	-88				1.358	9700			2.6	7.6
31	22	67			0.1	62			2.9	-88	1.03	#####	0.3	1.491					7.6
Avg.	21.2	66	3876	169	0.101	66	3769	175	2.409		1		0.305	1	10866			6	
Max.	22.6	77	4280	197	0.11	77	4280	276	3.35		1.16		0.35	1.614	13800			73.5	7.6
Min.	2.18	59	3140	147	0.1	56	2140	150	1.5		1.03		0.26	1.087	8580			1	7.5
Data	23	23	14	14	23	23	14	14	23	23	4	4	4	31	14	0	0	14	23

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

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

(SIGNATURE OF CERTIFIED OPERATOR)

(DATE)

Name of Facility Clay Township Regional Waste Dist.	Permit Number IN 0055760	For Month Of: August	Year 2007
--	-----------------------------	-------------------------	--------------

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

Page 3 of 5 State Form 10829 (R/1-2005)

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	
1	1.355		7.98	0.65	3.25		36.749		4.6		52.014		0.215		2.4311		
2	1.55		8.2	0.68	2.06		26.646		4.9		63.38		0.1		1.2935		
3	1.308		8.31														
4	1.412	1.37186					2.9533				34.068		5.2333		61.058	0.215	2.444
5	1.39																
6	1.331		8.51														
7	1.602		8.18	0.46	3.77		50.4		8.8		117.64		1.17		15.641		
8	1.299		8.42	0.34	2.25		24.39		4.6		49.865		0.801		8.683		
9	1.36		8.34	0.32	1.97		22.358		3.3		37.452		0.382		4.3354		
10	1.466		8.55														
11	1.243	1.38443					2.6633				32.383		5.5667		68.321	0.7843	9.5532
12	1.113																
13	1.072		8.64														
14	1.119		8.44	0.57	5.71		53.32		9.8		91.513		0.969		9.0486		
15	1.345		8.19	0.48	2.77		31.091		4.2		47.141		0.558		6.263		
16	1.462		8.32	0.4	2.22		27.085		4.1		50.022		0.413		5.0388		
17	1.427		8.54														
18	1.362	1.27143					3.5667				37.165		6.0333		62.892	0.6467	6.7834
19	1.441																
20	1.587		8.47														
21	1.456		8.44	0.64	3.73		45.321		9		109.35		1.21		14.702		
22	1.336		8.33	0.52	2.12		23.636		5.6		62.434		0.482		5.3738		
23	1.503		8.38	0.51	1.86		23.329		4		50.17		0.777		9.7455		
24	1.945		8.43														
25	1.705	1.56757					2.57				30.762		6.2		73.986	0.823	9.9404
26	1.444																
27	1.498		8.97														
28	1.295		8.11	1.08	2.89		31.232		9.8		105.91		0.564		6.095		
29	1.329		8.45	0.69	2.34		25.952		4.6		51.016		0.832		9.2273		
30	1.476		7.93	0.78	1.75		21.555		3.4		41.879		0.903		11.122		
31	1.585	1.44371	8.54				2.3267				26.246		5.9333		66.267	0.7663	8.8149
Avg	1.41342		8.377	0.58	2.7636		31.647		5.7643		66.414		0.6697		7.7858		
Max	1.945	1.56757	8.97	1.08	5.71	3.5667	53.32	37.165	9.8	6.2	117.64	73.986	1.21	0.823	15.641	9.9404	
Min	1.072	1.27143	7.93	0.32	1.75	2.3267	21.555	26.246	3.3	5.2333	37.452	61.058	0.1	0.215	1.2935	2.444	
Data	31	5	23	14	14	5	14	5	14	5	14	5	14	5	14	5	0

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 43.816
Percent Removal	99	97	97	91.1	
Phosphorus limit would be 1 mg/l. (compliance achieved)					Percent Capacity (actual flow/design) 55%

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

(SIGNATURE OF CERTIFIED OPERATOR)

(Date)

Name of Facility	Permit Number	For Month Of:	Year
Clay Township Regi	IN 0055760	August	2007

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR
AUTHORIZED AGENT)

(Date)

Page 4 of 5 State Form 10829 (R/1-2005)

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	47						1.2		73		12			
2														
3														
4					97						12			
5											105			
6	49						1.2		74					
7	51						1.2		74					
8	54						1.2		74					
9											25			
10					44						81			
11					45									
12														
13	51						1.3		74					
14	53						1.4		75					
15	53						1.5		74					
16														
17					71						93			
18			0		21									
19														
20	50						1.3		74					
21	51						1.2		74					
22	44						1.1		73		6			
23														
24					54						74			
25					51									
26														
27	48						1.2		74					
28	49						1.2		74					
29	39						1.1		73					
30														
31														
Avg.	49.154				54.714		1.2385		73.846		51			
Max.	54				97		1.5		75		105			
Min.	39				21		1.1		73		6			
Data	0	13	0	1	0	7	0	13	0	13	0	8	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**

(SIGNATURE OF CERTIFIED OPERATOR)

Name of Facility: Clay Township Regional Waste Dist. Permit Number: IN 005760 For Month Of: August Year: 2007

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

Page 5 of 5 State Form 10829 (R/1-2005)

Day Of Month	Temperature in Reactors	Orbal #1			Orbal #3					RETURN SLUDGE				Flow Vol.			
		ORP mV	Dissolved Oxygen - mg/L	OUR gm/L/Min	Settleable Solids % in 30 Minutes	Susp. Solids - mg/L	Sludge Vol. Index - mg/gm	Dissolved Oxygen - mg/L	OUR gm/L/min	Volume - MG	Susp. Solids - mg/L	Orbal Influent Flow - MGD					
1	22.6	-16	0.11		56	4840	116	1.0					0.779	3920	0.888		
2	22.2	56	0.12		57	4160	137	1.0	0.89				0.842	1420	0.945		
3	22.3	-27	0.12		63			1.0					0.838		0.894		
4													0.795		0.929		
5													0.757		0.891		
6	22.4	-15	0.12		70			1.0					0.824		0.917		
7	23.1	-6	0.12		67	3820	175	1.0					0.784	6180	0.874		
8	23.5	39	0.11		63	3660	172	1.0					0.792	4020	0.904		
9	23.7	6	0.11		58	3460	168	1.0					0.807	6560	0.945		
10	23.5	-109	0.11		63			1.0	1.06				0.903		1.083		
11													0.791		0.949		
12													0.664		0.775		
13	23		0.11		70			1.0					0.705		0.77		
14	22.4	-296	0.11		70	3880	180	1.0					0.672	4180	0.771		
15	22.2	-305	0.11		71	3900	182	1.0					0.757	2820	0.921		
16	22.5	-282	0.12		59	3260	181	1.0					0.783	6760	0.949		
17	22.6	-299	0.11		62			1.0	0.89				0.734		0.933		
18													0.75		0.962		
19													0.72		0.963		
20	21.1	-37	0.11		69			1.0					0.764		1.016		
21	22.3	6	0.11		74	3860	192	1.0					0.782	2960	1.006		
22	22.5	8	0.12		68	3740	182	1.0					0.751	6940	0.941		
23	23.1	60	0.11		67	3580	187	1.0					0.707	2180	1.022		
24	23.1	15	0.12		67			1.0					0.844		1.243		
25													0.667		1.032		
26													0.596		0.886		
27	21.6	-39	0.12		69			1.0					0.695		0.973		
28	22.1	-94	0.12		72	3940	183	1.0					0.704	7600	0.977		
29	22.5	-22	0.12		67	3780	177	1.0					0.714	3980	0.998		
30	22.7	-26	0.11		61	3640	168	1.0					0.716	7460	1.02		
31	21.8	-24	0.12		67			1.0	0.77				0.783		1.14		
Avg.	22.557		0		65.652	3823	171	1	0.9025				0.76	4784.3	0.9522		
Max.	23.7		0.12		74	4840	191.71	1	1.06				0.903	7600	1.243		
Min.	21.1		0.11		56	3260	115.7	1	0.77				0.596	1420	0.77		
Data	23	22	23	0	23	14	14	23	4	0	0	0	0	31	14	31	0