



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 Dist.			Permit Number IN 0055760		
Month November	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	Thu		60					50	1.677	7.5	207	2895.1	238	3328.7	6.97	28.9		
2	Fri		59					85	1.772	7.6	197	2911.4	226	3339.9	7.24	27.9		
3	Sat							20	1.81									
4	Sun							45	1.435									
5	Mon		65					20	1.545	7.6	189	2435.3	214	2757.5	6.44	29.8		
6	Tue		49					60	1.546	7.5	169	2179	174	2243.5	6.34	31.3		
7	Wed		45					60	1.567	7.5	187	2443.9	234	3058.1	7.53	33		
8	Thu		53					60	1.46	7.6	218	2654.5	166	2021.3	6.95	29.1		
9	Fri		53	0.01				40	1.618	7.5	222	2995.7	190	2563.9	7.45	28.3		
10	Sat							60	1.478									
11	Sun			1.15				60	1.709									
12	Mon		55	0.45				40	1.486	7.5	186	2305.1	222	2751.3	6.57	22.6		
13	Tue		61	0.06				10	1.546	7.5	180	2320.9	194	2501.4	5.58	20.6		
14	Wed		61					30	1.489	7.5	229	2843.8	236	2930.7	7.65	23		
15	Thu		43					60	1.52	7.5	186	2357.9	140	1774.8	5.41	14.9		
16	Fri		40					50	1.514	7.5	247	3118.8	278	3510.2	7.11	26.5		
17	Sat							55	1.546									
18	Sun			0.03				115	1.61									
19	Mon		59	0.02				40	1.461	7.4	253	3082.7	274	3338.6	7.52	33		
20	Tue		67					30	1.418	7.3	247	2921.1	262	3098.4	7.45	30.7		
21	Wed		65	0.44				40	1.536	7.4	250	3202.6	254	3253.8	7.47	28.7		
22	Thu		45	0.01				35	1.647	7.4	223	3063.1	260	3571.4	8.25	26.2		
23	Fri		38					25	1.539	7.5	279	3581	260	3337.2	9.08	30.7		
24	Sat							40	1.643									
25	Sun			0.28				55	1.622									
26	Mon		40	0.38				25	1.63	7.4	237	3221.8	278	3779.2	7.45	25.5		
27	Tue		45	0.01				30	1.575	7.5	221	2902.9	304	3993.2	8.17	26.9		
28	Wed		53					50	1.754	7.5	220	3218.2	244	3569.3	7.57	28.3		
29	Thu		48					50	1.609	7.5	255	3421.9	254	3408.4	8.17	30.5		
30	Fri		45					30	1.702	7.4	239	3392.5	272	3861	8.57	25.6		
Average								45.667	1.58213			220	2885	235	3090.5	7.315	27.36	
Maximum								115	1.81	7.6	279	3581	304	3993.2	9.08	33		
Minimum								10	1.418	7.3	169	2179	140	1774.8	5.41	14.9		
No. of Data							11	0	0	0	30	0	30	22	22	22	22	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**

(SIGNATURE OF CERTIFIED OPERATOR) (DATE)

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

Name of Facility: Clay Township Regional Waste Disposal Authority
 Permit Number: IN 0055760
 For Month Of: November
 Year: 2007

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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. Coli - colony/100 ml	pH
1	19.3	84	3900	215	0.1	80	3620	221	3.1	-83			1.405	9100				7.7	
2	19	83	3800	218	0.1	81	3800	213	1.7	-80			1.467	9060				7.6	
3													1.493						
4											0.87		0.3	1.225					
5	18.7	79	4020	197	0.1	87	4080	213	1.7	-142			1.255	9820				7.7	
6	18.2	88	4200	210	0.1	84	3920	214	2.0	-65			1.157	9880				7.8	
7	17.8	85	4100	207	0.1	81	3960	205	3.2	-18			1.314	9580				7.7	
8	17.8	85	3860	220	0.1	85	3860	220	3.5	-19			1.284	9120				7.7	
9	18	85	4020	211	0.1	81	3800	213	2.7	-46			1.35	9640				7.7	
10													1.597						
11													1.74						
12	18	85	3960	215	0.1	88	5280	167	3.1	-45			1.485	10680				7.7	
13	18.5	81	3500	231	0.1	82	4160	197	3.8	-28			1.589	10500				7.7	
14	18.7	71	3660	194	0.1	68	3500	194	3.7	-14			1.558	9940				7.7	
15	18	75	3600	208	0.1	78	3540	220	4.2	1			1.594	9760				7.7	
16	17.1	81	3120	260	0.1	81	1800	450	4.9	18	0.53	#####	0.2	1.544	9340			7.7	
17													1.588						
18													1.761						
19	17.2	81	4280	189	0.1	80	4020	199	4.0	-22			1.594	9480				7.7	
20	17.9	84	4220	199	0.1	82	3960	207	2.4	-35			1.547	10140				7.7	
21	18.4	78	3780	206	0.1	79	3740	211	2.5	8			1.613	10240				7.7	
22	18	74	3720	199	0.1	79	3700	214	3.3	-20			1.68	10100				7.7	
23	16.8	78	3640	214	0.1	82	3860	212	3.3	-32			1.502	9960				7.8	
24													1.607						
25													1.611						
26	16.9	85	4040	210	0.1	83	4140	200	3.2	-29			1.518	10240				7.6	
27	16.6	80	4040	198	0.1	82	3920	209	4.9	-22			1.511	10900				7.7	
28	16.3	79	3720	212	0.1	75	3680	204	3.5	-26			1.622	10000				7.6	
29	16.3	73	3680	198	0.1	69	3480	198	2.9	-265			1.521	9560				7.6	
30	16	68	3600	189	0.1	66	3240	204	3.5	-227			1.784	9180				7.7	
Avg.	17.7	80	3839	209	0.1	80	3775	218	3.229		1	#####	0.22	2	9828.18				
Max.	19.3	88	4280	260	0.1	88	5280	450	4.91		0.87	#####	0.28	1.784	10900				7.8
Min.	16	68	3120	189	0.09	66	1800	167	1.66		0.53	#####	0.16	1.157	9060				7.6
Data	22	22	22	22	22	22	22	22	22	22	2	1	2	30	22	0	0	0	22

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

1. On November 1st clarifier number 2 was put back on line. As of this date, all plant equipment is online.

**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: November	Year 2007
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(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (DATE)

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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
1	1.501		7.5	1.56	2.1		26.304		5.5		68.892		0.822		10.296	
2	1.576		8.21	1.4	3.53		46.426		5.1		67.074		0.336		4.419	
3	1.575															
4	1.505															
5	1.321		8.3	0.75	4.3		47.402		8.9		98.111		0.1		1.1024	
6	1.294		7.73	0.46	1.84		19.869		5		53.992		0.1		1.0798	
7	1.54		8.38	0.48	20.8		267.31		4.8		61.686		0.1		1.2851	
8	1.488		8.03	0.62	2		24.835		4.8		59.603		0.1		1.2417	
9	1.461		8.1	0.94	1.9		23.165		4.6		56.083		0.16		1.9507	
10	1.994	1.51471				6.168		76.516		5.62		65.895		0.112		1.332
11	1.544															
12	1.267		8.1	0.8	4.14		43.773		8.5		89.871		0.1		1.0573	
13	1.315		8.37	0.76	2.15		23.593		4.5		49.382		0.1		1.0974	
14	1.278		8.42	0.93	2.26		24.103		5.1		54.391		0.1		1.0665	
15	1.324		10.11	1.15	2.05		22.65		5.5		60.768		0.1		1.1049	
16	1.284		7.83	1.05	1.98		21.216		4.6		49.289		0.1		1.0715	
17	1.364	1.33943				2.516		27.067		5.64		60.74		0.1		1.0795
18	1.47															
19	1.179		8.19	1.06	5.18		50.965		9.9		97.404		0.1		0.9839	
20	1.219		7.56	0.8	2.41		24.516		6.2		63.07		0.1		1.0173	
21	1.371		8.2	0.74	2.58		29.518		7.5		85.807		0.1		1.1441	
22	1.421		7.62	0.75	2.02		23.954		5.5		65.22		0.1		1.1858	
23	1.284		8.01	0.69	2.01		21.537		4.8		51.432		0.1		1.0715	
24	1.41	1.33629				2.84		30.098		6.78		72.587		0.1		1.0805
25	1.408															
26	1.41		8.29	0.86	3.62		42.595		9.4		110.6		0.1		1.1766	
27	1.373		8.02	0.97	1.7		19.478		5.9		67.6		0.1		1.1458	
28	1.513		8.04	1.11	1.44		18.181		4.9		61.867		0.1		1.2626	
29	1.452		7.98	1.36	1.39		16.843		3.7		44.833		0.1		1.2117	
30	1.599	1.44714	8.08	1.26	1.47	1.924	19.615	23.342	4.7	5.72	62.715	69.524	0.01	0.082	0.1334	0.986
Avg	1.42467		8.1395	0.9318	3.3123		38.993		5.8818		67.259		0.1422		1.6866	
Max	1.994	1.51471	10.11	1.56	20.8	6.168	267.31	76.516	9.9	6.78	110.6	72.587	0.822	0.112	10.296	1.332
Min	1.179	1.33629	7.5	0.46	1.39	1.924	16.843	23.342	3.7	5.62	44.833	60.74	0.01	0.082	0.1334	0.986
Data	30	4	22	22	22	4	22	4	22	4	22	4	22	4	22	4

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:	
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	42.74
Percent Removal	98	97	99	87.3	Percent Capacity	56%
Phosphorus limit would be 1 mg/l. (compliance achieved)					(actual flow/design)	

**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	November	2007

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR
AUTHORIZED AGENT)

(Date)

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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												43		
2					48									
3					28							74		
4														
5	50						1.1		73					
6	50						1.1		73					
7	42						1.1		73					
8														
9					50							19		
10					19							81		
11														
12	50						1.2		73					
13	51						1.2		73					
14	33						1		71			19		
15												19		
16					44							6		
17					26							124		
18														
19	41						1.1		73					
20	54						1.2		73					
21	48						1.2		73					
22														
23					35									
24					43									
25														
26	50						1.2		73					
27	50						1.2		74					
28	38						1.1		73					
29	50						1.1		73					
30					41							25		
Avg.	46.692				37.111		1.1385		72.923			45.556		
Max.	54				50		1.2		74			124		
Min.	33				19		1		71			6		
Data	0	13	0	0	0	9	0	13	0	13	0	9	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: November Year: 2007

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

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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	18.2	-15	0.54		82	3520	233	1.1					0.769	4460	1.221		
2	17.8	-164	0.55		84	3540	237	1.0					0.803	5420	1.293		
3													0.812		1.29		
4				0.47					0.47				0.681		1.054		
5	17.3	-259	0.81		88	3920	224	1.1					0.748	4420	1.092		
6	16.2	-217	0.53		88	3620	243	1.1					0.653	3060	1.047		
7	16.2	-264	0.55		84	3660	230	1.3					0.788	6840	1.216		
8	16.6	-222	0.53		85	4260	200	1.1					0.731	4820	1.168		
9	16.9	-232	0.54		85	3680	231	1.1					0.744	4320	1.202		
10													1.041		1.337		
11													1.086		1.444		
12	17.2	-83	0.57		89	3940	226	1.8					1.003	3400	1.262		
13	17.5	-239	0.54		81	3360	241	1.1					1.082	3660	1.304		
14	17.5	-264	0.55		70	3600	194	1.2					1.045	3640	1.261		
15	17	-16	0.56		82	3520	233	1.8					1.027	2720	1.279		
16	16.1	34	0.55	0.12	81	3540	229	2.6	0.12				0.981	5080	1.237		
17													1.006		1.227		
18													1.051		1.271		
19	16.2	34	0.55		82	4360	188	1.6					0.987	5300	1.208		
20	16.9	-70	0.55		81	4600	176	1.1					1.074	3960	1.154		
21	16.4	-152	0.54		80	3580	223	1.1					1.095	2420	1.224		
22	17	-105	0.56		81	3580	226	1.2					1.059	2380	1.227		
23	15.8	-109	0.56		82	3620	227	2.5					0.932	3140	1.112		
24													0.991		1.17		
25													1.001		2.156		
26	15.9	-118	0.54		82	4280	192	1.4					0.993	4260	0.092		
27	15.6	-60	0.54		75	3220	233	2.8					1.002	3260	1.059		
28	15.3	93	0.55		75	3520	213	3.4					1.029	2660	1.133		
29	15.3	-240	0.53		78	3500	223	1.1					1.019	4980	1.046		
30	15	-220	0.53		70	3320	211	1.1					1.135	4200	1.515		
Avg.	16.541		1	0	81.136	3715	220	2	0.295				0.95	4018.2	1.21		
Max.	18.2		0.81	0	89	4600	243.09	3	0.47				1.135	6840	2.156		
Min.	15		0.53	0	70	3220	176.09	1	0.12				0.653	2380	0.092		
Data	22	22	22	2	22	22	22	22	2	0	0	0	0	30	22	30	0