

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

Name of Facility: Clay Township Regional Waste D
Permit Number: IN0055760
For Month Of: April
Year: 2008

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. Coli - colony/100 ml	pH
1	12.9	69	3560	194	0.3	70	4100	171	2.9	-268		0		0.728	11020			7.4	7.6
2	12.2	67	3480	193	0.3	74	4180	177	4.0	-255				0.676	11360			11	7.5
3	12.2	69	4140	167	0.3	67	3860	174	3.5	-264				0.693	10760			9.7	7.5
4	12.5	63	4240	149	0.4	65	3820	170	5.2	70				0.722	9840			5.2	7.6
5														0.704					
6											0.35		0.1	0.716					
7	13	73	4420	165	0.3	73	3240	225	4.7	-27				0.705	11440			1	7.6
8	13.3	63	4560	138	0.3	75	3860	194	4.1	-27				0.54	14300			1	7.6
9	13.4	65	4260	153	0.4	54	5280	102	4.8	13				0.582	11860			2	7.6
10	13.4	54	2380	227	0.6	54	4500	120	4.8	28				0.7	9300			55.6	7.6
11	13.4	60	4480	134	0.3	60	4200	143	2.8	-278	0.46	#####	0.2	0.825	11020			63.7	7.5
12														0.73					
13														0.696					
14	12.5	62	4280	145	0.3	63	4240	149	3.2	-248				0.695	11080			47.3	7.6
15	12.8	64	4140	155	0.3	65	4300	151	1.2	-13				0.706	10860			1	7.5
16	13.2	65	4060	160	0.3	66	3800	174	1.7	-307				0.702	11260			4.1	7.6
17	13.6	71	4480	158	0.3	64	4280	150	3.2	-338				0.615	10100			6.3	7.5
18	14	59	4320	137	0.3	59	4200	140	0.6	-344	0.6	#####	0.4	0.718	10700			4.2	7.5
19														0.797					
20														0.767					
21	14.3	68	4533	150	0.3	63	4267	148	2.4	-366				0.671	8380			3	7.5
22	14.6	62	4560	136	0.3	58	4100	141	2.1	-364				0.641	10920			2	7.4
23	14.9	55	4720	117	0.3	51	4480	114	2.0	-360				0.645	11020			7.5	7.4
24	15.1	59	4800	123	0.3	59	4120	143	2.4	-365				0.633	10248			3.1	7.5
25	15.3	66	4080	162	0.3	59	3980	148	2.0	-365	0.96	#####	0.7	0.647	10520			2	7.4
26														0.758					
27														0.731					
28	14.7	71	4480	158	0.3	64	4300	149	1.9	-370				0.669	10700			1	7.5
29	14.3	63	4180	151	0.3	64	4060	158	1.7	-366				0.661	10760			1	7.4
30	14.4	61	4320	141	0.3	58	4100	141	1.7	-363				0.647	11020			3.1	7.4
			4100																
Avg.	13.6	64	4199	155	0.34	63	4149	154	2.848		1		0.343	1	10839.5			5	
Max.	15.3	73	4800	227	0.6	75	5280	225	5.19		0.96		0.71	0.825	14300			63.7	7.6
Min.	12.2	54	2380	117	0.31	51	3240	102	0.59		0.35		0.07	0.54	8380			1	7.4
Data	22	22	23	22	22	22	22	22	22	22	4	3	4	30	22	0	0	21	22

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):
1. Phosphorus violations occurred this month. A large volume of old sludge was ran through our new belt filter press resulting in higher levels. A letter of non compliance was sent.

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

(SIGNATURE OF CERTIFIED OPERATOR)

(DATE)

Name of Facility: Clay Township Regional Waste District
 Permit Number: IN0055760
 For Month Of: April
 Year: 2008

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

(DATE)

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	2.333		8.6	3.83	1.72		33.486		2.3		44.778		0.0347		0.6756		
2	2.088		9.11	3.38	1.51		26.311		2.2		38.334		0.001		0.0174		
3	2.012		8.92	3.55	1.5		25.185		1.8		30.222		0.1		1.679		
4	2.041		8.77	3.62	1.14		19.417		2.1		35.768		0.01		0.1703		
5	1.996	2.14986				1.632		29.881		2.5		45.935		0.0451		0.8229	
6	1.963																
7	1.933		8.8	2.24	3.02		48.715		3.7		59.684		0.01		0.1613		
8	1.699		8.72	2.74	1.84		26.088		2.6		36.863		0.01		0.1418		
9	1.853		8.91	3.11	1.53		23.659		1.6		24.741		0.01		0.1546		
10	2.158		8.5	3.15	1.43		25.752		3.7		66.631		0.01		0.1801		
11	2.268		8.33	2.7	0.54		10.22		3.6		68.135		0.0407		0.7703		
12	2.116	1.99857				1.672		26.887		3.04		51.211		0.0161		0.2816	
13	1.735																
14	1.846		9.34	1.58	2.5		38.512		4.9		75.484		0.0529		0.8149		
15	1.944		8.96	2.04	1.88		30.499		4.3		69.758		0.0799		1.2962		
16	1.965		8.78	1.9	1.97		32.304		3.2		52.473		0.0854		1.4004		
17	1.66		8.33	2.07	1.74		24.104		3.4		47.099		0.0583		0.8076		
18	1.82		8.05	2.01	2.23		33.869		4.1		62.27		0.0538		0.8171		
19	1.949	1.84557				2.064		31.857		3.98		61.417		0.0661		1.0272	
20	1.963																
21	1.72		7.94	1.21	2.88		41.338		4.5		64.59		0.238		3.4161		
22	1.666		7.73	1.39	2.35		32.672		4.6		63.953		0.549		7.6326		
23	1.978		7.89	0.8	2.74		45.228		3.6		59.423		0.711		11.736		
24	2.045		7.87	0.71	2.17		37.032		3.3		56.316		0.676		11.536		
25	2.108		8.13	0.54	1.81		31.84		2.8		49.256		1.07		18.823		
26	2.357	1.97671				2.39		37.622		3.76		58.708		0.6488		10.629	
27	2.094																
28	2.172		7.89	0.355	2.48		44.951		4.2		76.126		0.293		5.3107		
29	2.946		7.88	0.256	2.4		59.002		4.4		108.17		0.642		15.783		
30	1.985	2.29925	8.22	0.302	2.73	2.214	45.222	49.725	4.6	4.28	76.198	86.832	0.318	0.3985	5.2676	8.7872	
Avg	2.01377		8.4395	1.9765	2.005		33.428		3.4318		57.558		0.2297		4.0269		
Max	2.946	2.29925	9.34	3.83	3.02	2.39	59.002	49.725	4.9	4.28	108.17	86.832	1.07	0.6488	18.823	10.629	
Min	1.66	1.84557	7.73	0.256	0.54	1.632	10.22	26.887	1.6	2.5	24.741	45.935	0.001	0.0161	0.0174	0.2816	
Data	30	5	22	22	22	5	22	5	22	5	22	5	22	5	22	5	0

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 60.413
Percent Removal	99	98	99	76.4	
	Phosphorus limit would be 1 mg/l. (compliance not achieved)				Percent Capacity (actual flow/design) 79%

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

(SIGNATURE OF CERTIFIED OPERATOR)

(Date)

Name of Facility: Clay Township Regi
Permit Number: IN0055760
For Month Of: April
Year: 2008

(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	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			
		pH	Gas Production Cubic Ft. x 1000	Temperature - F										
1	50					1.3	14.9	75	76	32				
2	50					1.3	15.2	75	76	36				
3	36					1.3	15.9	75	76	43				
4							16.3		76	48				
5					47									
6					33									
7							17.3		77	30				
8	53					1.4	17.1	75	77	57				
9	66					1.3	16.8	75	77	39				
10	22					1.2	16.9	74	76	30				
11							17.1		76	35				
12					26									
13					36									
14	38					0.9	17.6	74	75	50				
15	42					1.3	16.2	74	76	33				
16	40					1.3	16.9	74	76	32				
17	43					1.1		74						
18	39					1.2	16.8	74	75	38				
19					62		17.4		75	37				
20					26									
21	40					1.2		75		13				
22	43					1.3	16.7	75	76	32				
23	40					1.3	16.5	75	76	63				
24	40					1.2	17	75	74	5				
25	49					1.2	17.2	75	75	37				
26					21									
27					20									
28	42					1.2	15.7	75	76	7				
29	41					1.2	16.3	75	77	32				
30	42					1.3		75						
Avg.	42.947				33.875	1.2368	16.59	74.684	75.9	34.714				
Max.	66				62	1.4	17.6	75	77	63				
Min.	22				20	0.9	14.9	74	74	5				
Data	0	19	0	0	0	8	0	19	20	19	20	21	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	Permit Number	For Month Of:	Year
Clay Township Regional Waste District	IN0055760	April	2008

Page 5 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	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	12.1	-343	0.35		0.6	64	4940	130		1.489			0.761	7020	1.115				
2	11.9	-347	0.34		3.8	66	4800	138		1.446			0.77	5020	1.056				
3	11.9	-345	0.33		3.5	63	6000	105		1.467			0.775	4540	1.056				
4	12.4	-349	0.39		2.2	63	4780	132		1.453			0.731	3780	1.007				
5										1.451			0.746		0.978				
6									0.1	1.502			0.786		0.964				
7	13.1	-345	0.32		1.9	67	4460	150		1.476			0.771	4780	0.944				
8	13.4	-346	0.33		0.5	70	4220	166		1.31			0.77	6320	0.855				
9	13.8	-344	0.34		1.5	63	4240	149		1.391			0.809	5800	0.886				
10	13.5	-345	0.33		2.6	56	5780	97		1.555			0.855	4640	0.965				
11	13.7	-343	0.33		1.6	55	4460	123	0.1	1.675			0.85	5100	1.086				
12										1.512			0.782		0.991				
13										1.476			0.78		0.972				
14	12.5	-333	0.34		3.2	57	4100	139		1.545			0.85	3560	1.075				
15	12.4	-339	0.33		1.3	56	5280	106		1.687			0.982	4120	1.123				
16	13.1	-341	0.36		3.0	67	4060	165		1.464			0.763	3820	1.04				
17	13.8	-343	0.36		1.0	55	5200	106		1.258			0.643	6260	0.9				
18	14.6	-344	0.34		0.6	54	5540	97	0.2	1.39			0.671	5980	1.017				
19										1.314			0.518		0.989				
20										1.432			0.665		0.995				
21	15.4	-343	0.34		0.6	55	4100	134		1.326			0.654	4760	0.98				
22	15.1	-345	0.32		0.5	50	5920	84		1.312			0.671	3300	0.96				
23	15.6	-344	0.33		0.5	52	4700	111		1.297			0.652	5600	0.944				
24	15.8	-343	0.35		0.6	48	4440	108		1.244			0.611	5680	0.95				
25	16	-344	0.33		0.5	47	5640	83	0.7	1.296			0.649	5320	0.982				
26										1.376			0.618		0.98				
27										1.331			0.6		0.954				
28	14.7	-344	0.33		0.5	49	5840	84		1.292			0.623	3800	0.976				
29	13.8	-345	0.33		0.6	55	5220	105		1.279			0.618	4140	0.919				
30	14.1	-342	0.33		0.5	53	5280	100		1.452			0.805	5840	0.949				
Avg.	13.759		0		1.4305	58	4955	119	0.2325	1			1	4962.7	0.9869				
Max.	16		0.39		3.82	70	6000	166	0.65	1.687			0.982	7020	1.123				
Min.	11.9		0.32		0.47	47	4060	83	0.06	1.244			0.518	3300	0.855				
Data	22	22	22	0	22	22	22	22	4	30	0	0	0	30	22	30	0	0	0