



An employee-owned company

February 12, 2007

35884
Dept. of Environmental
Protection

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District Office - Solid Waste Section
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

FEB 14 2007

Southwest District

**Re: Manatee County Lena Road Landfill
Monthly Report – January 2007**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Leachate Tracking Summary (Exhibit B), Leachate Meter Readings, Monthly Rainfall, Monthly Groundwater Gradient Report.

An inward gradient was present in Stage I and Stage III of the landfill.

If you should have any questions concerning this report, please call me at 407/806-4153.

Sincerely,

Joe Miller, P.E.
Senior Project Manager

Attachments

cc: Daniel T. Gray, Director, Utility Operations Department
Gus DiFonzo, Solid Waste Manager
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division
File – 120498.94 0100

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EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

January, 2007

A	B	C	D	E	F	G	H
DATE	LEACHATE STAGE I Lift Station 1 (gallons)	LEACHATE STAGE I Lift Station 2 (gallons)	LEACHATE STAGE I TOTAL (gallons)	LEACHATE STAGE III TOTAL (gallons)	TOTAL LEACHATE PUMPED (gallons)	RAINFALL (inches)	RAINFALL (gallons)
01-Jan-07	0	0	0	0	0	0.68	3,102,305
02-Jan-07	43,580	9,500	53,080	173,600	226,680	0.02	91,244
03-Jan-07	10,860	900	11,760	51,600	63,360	0.00	0
04-Jan-07	10,340	2,000	12,340	45,300	57,640	0.00	0
05-Jan-07	12,010	200	12,210	42,700	54,910	0.00	0
06-Jan-07	0	0	0	0	0	0.00	0
07-Jan-07	0	0	0	0	0	0.00	0
08-Jan-07	37,640	200	37,840	148,900	186,740	0.05	228,111
09-Jan-07	6,900	1,000	7,900	30,000	37,900	0.00	0
10-Jan-07	10,860	100	10,960	52,300	63,260	0.00	0
11-Jan-07	6,000	0	6,000	300	6,300	0.00	0
12-Jan-07	8,770	3,800	12,570	15,700	28,270	0.00	0
13-Jan-07	0	0	0	0	0	0.00	0
14-Jan-07	0	0	0	0	0	0.00	0
15-Jan-07	34,000	2,700	36,700	0	36,700	0.00	0
16-Jan-07	11,640	1,700	13,340	18,300	31,640	0.00	0
17-Jan-07	10,540	1,100	11,640	9,600	21,240	0.00	0
18-Jan-07	8,990	2,200	11,190	28,500	39,690	0.00	0
19-Jan-07	10,460	2,100	12,560	21,600	34,160	0.00	0
20-Jan-07	0	0	0	0	0	0.00	0
21-Jan-07	0	0	0	0	0	0.00	0
22-Jan-07	38,640	7,900	46,540	73,500	120,040	0.10	456,221
23-Jan-07	14,790	1,600	16,390	27,500	43,890	0.00	0
24-Jan-07	10,580	2,400	12,980	22,400	35,380	0.53	2,417,973
25-Jan-07	9,910	2,200	12,110	21,200	33,310	0.42	1,916,129
26-Jan-07	9,800	2,100	11,900	25,800	37,700	0.00	0
27-Jan-07	0	0	0	0	0	0.00	0
28-Jan-07	0	0	0	0	0	0.56	2,554,839
29-Jan-07	37,080	8,300	45,380	93,500	138,880	0.00	0
30-Jan-07	6,410	1,000	7,410	20,300	27,710	0.00	0
31-Jan-07	13,730	10,500	24,230	39,300	63,530	0.00	0
TOTAL	363,530	63,500	427,030	961,900	1,388,930	2.36	10,766,823
Leachate Pumped as Percentage of Rainfall			6.5%	22.7%			

Column Notes:

A - Date of reading.

B - Leachate pumped (gallons) from Stage I by lift station 1.

C - Leachate pumped (gallons) from Stage I by lift station 2.

D - Total Stage I leachate pumpage (B+C).

E - Leachate pumped (gallons) from Stage III.

F - Total leachate pumped to WWTP storage tank (D+E).

G - Rainfall (inches) recorded on this date.

H - Rainfall (gallons) calculated based on open area (G x Area x 27,156 gal/acre-in).

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cover	102.0	--	102.0
Closed	30.0	--	30.0
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

Comments

EXHIBIT B

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2007

	B	C	D	E	F	G	H
	STAGE I	STAGE III	TOTAL			STAGE I	STAGE III
MONTH	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	LEACHATE/ RAINFALL	LEACHATE /RAINFALL
	(gallons)	(gallons)	(gallons)	(inches)	(gallons)	(%)	(%)
JANUARY	427,030	961,900	1,388,930	2.36	10,766,823	6.5%	22.7%
FEBRUARY			0		0		
MARCH			0		0		
APRIL			0		0		
MAY			0		0		
JUNE			0		0		
JULY			0		0		
AUGUST			0		0		
SEPTEMBER			0		0		
OCTOBER			0		0		
NOVEMBER			0		0		
DECEMBER			0		0		
TOTAL	427,030	961,900	1,388,930	2.36	10,766,823	6.5%	22.7%

Notes:

1. (B) Total leachate pumped from Stage I.
2. (C) Total leachate pumped from Stage III.
3. (D) Total leachate (Column B+C) pumped to the WWTP storage tank.
4. (E) Total rainfall in inches.
5. (F) Total rainfall in gallons (Stage I and III Open Area of 168-acres x Rainfall)
6. (G) Stage I leachate pumped as a percentage of rainfall.
7. (H) Stage III leachate pumped as a percentage of rainfall.

Landfill Stage Land Areas

	Stage I	Stage III	TOTAL
	(acres)	(acres)	(acres)
Initial Cover	--	66.0	66.0
Intermediate Cov.	102.0	--	102.0
Closed	30.0	--	30.0
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

**LEACHATE METER READINGS
JANUARY 2007**

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
1/2/07	3248474	152300	2360266	32.25	30.08	OK	AD
1/3/07	3250060	153200	2360782	32.60	30.07	OK	AD
1/4/07	3251094	155200	2361235	31.85	30.06	OK	AD
1/5/07	3252295	157400	2361662	31.86	30.06	OK	AD
1/6/07							
1/8/07	3256059	155600	2363151	32.00	29.90	OK	AD
1/9/07	3256749	156600	2363451	32.01	29.95	OK	AD
1/10/07	3257835	156700	2363974	32.02	29.85	OK	AD
1/11/07	3258435	156700	2363977	32.03	29.84	OK	AD
1/12/07	3259312	160500	2364134	32.03	29.84	OK	AD
1/13/07							
1/15/07	3262712	163200	2364134	32.05	29.82	OK	AD
1/16/07	3263876	164900	2364312	32.04	29.57	OK	AD
1/17/07	3264930	166000	2364413	32.08	29.52	OK	AD
1/18/07	3265829	168200	2364648	32.08	29.47	OK	AD
1/19/07	3266825	170300	2364914	32.08	29.45	OK	AD
1/20/07							
1/22/07	3270739	178200	2365649	32.15	29.44	OK	AD
1/23/07	3272218	179800	2365924	32.15	29.44	OK	AD
1/24/07	3273276	182200	2366148	32.14	29.43	OK	AD
1/25/07	3274267	184400	2366360	32.20	29.44	OK	AD
1/26/07	3275247	186500	2366618	32.22	29.37	OK	AD
1/27/07							
1/29/07	3278955	194800	2367553	32.19	29.60	OK	AD
1/30/07	3279596	195800	2367756	32.21	29.60	OK	AD
1/31/07	3280969	206300	2368149	32.22	29.60	OK	AD

Landfill

LANDFILL SHEET		
2007 Jan	RAIN FALL	LEACHATE MGD
1	0.68	0.011
2	0.02	0.011
3	0.00	0.011
4	0.00	0.011
5	0.00	0.011
6	0.00	0.011
7	0.00	0.011
8	0.05	0.011
9	0.00	0.010
10	0.00	0.008
11	0.00	0.005
12	0.00	0.002
13	0.00	0.002
14	0.00	0.002
15	0.00	0.006
16	0.00	0.004
17	0.00	0.005
18	0.00	0.006
19	0.00	0.006
20	0.00	0.006
21	0.00	0.007
22	0.10	0.007
23	0.00	0.007
24	0.53	0.007
25	0.42	0.008
26	0.00	0.006
27	0.00	0.007
28	0.56	0.008
29	0.00	0.007
30	0.00	0.007
31	0.00	0.008
TOTAL	2.36	0.229
AVG		0.007
MIN		
MAX	0.68	0.011

Fax # 9-741-3396

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: January 2007

Piezometers Inside Slurry Wall				Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation	Gradient Flow	Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.35	<i>inward</i>	GW-1	38.68	29.91
P-2	42.32	28.41	<i>inward</i>	GW-2	40.92	29.95
P-3	40.36	25.78	<i>inward</i>	GW-3	39.40	31.36
P-4	40.78	22.13	<i>inward</i>	GW-4	40.53	30.89
P-5	40.73	21.66	<i>inward</i>	GW-5	39.90	30.22
P-6	40.74	21.32	<i>inward</i>	GW-6	38.95	29.40
P-7	40.60	21.20	<i>inward</i>	GW-7	39.49	27.46
P-8	40.21	21.20	<i>inward</i>	GW-8	39.75	26.58
P-9	39.97	21.10	<i>inward</i>	GW-9	39.65	26.61
P-10	39.86	20.32	<i>inward</i>	GW-10	38.34	26.60
P-11	40.52	22.67	<i>inward</i>	GW-11	38.26	29.24
P-12	43.28	29.29	<i>inward</i>	GW-12	42.09	30.21
P-13	44.78	30.25	<i>inward</i>	GW-13	44.79	32.10
P-14	45.09	29.78	<i>inward</i>	GW-14	39.63	34.12
P-15	45.57	29.91	<i>inward</i>	GW-15	42.33	35.06
P-16	44.67	31.00	<i>inward</i>	GW-16	44.41	34.81
P-17	44.28	29.85	<i>inward</i>	GW-17	42.19	33.18

Comments:

Date Data Collected: January 23, 2007

Form Revised December 6, 2004