



39884

An employee-owned company

March 13, 2007

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR 16 2007
SOUTHWEST DISTRICT
TAMPA

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

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

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2007 (Exhibit B), Monthly 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

February, 2007

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

MAR 16 2007

SOUTHWEST DISTRICT TAMPA

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-Feb-07	10,070	3,900	13,970	22,000	35,970	0.03	136,866
02-Feb-07	19,480	7,700	27,180	38,200	65,380	0.11	501,843
03-Feb-07	0	0	0	0	0	0.05	228,111
04-Feb-07	0	0	0	0	0	0.03	136,866
05-Feb-07	25,190	9,200	34,390	99,700	134,090	0.00	0
06-Feb-07	8,340	2,300	10,640	33,200	43,840	0.00	0
07-Feb-07	9,920	5,600	15,520	30,400	45,920	0.00	0
08-Feb-07	13,720	7,700	21,420	37,600	59,020	0.00	0
09-Feb-07	11,820	7,400	19,220	30,100	49,320	0.00	0
10-Feb-07	0	0	0	0	0	0.00	0
11-Feb-07	0	0	0	0	0	0.00	0
12-Feb-07	36,030	18,600	54,630	99,200	153,830	0.33	1,505,530
13-Feb-07	13,240	15,100	28,340	29,100	57,440	0.32	1,459,908
14-Feb-07	15,360	7,700	23,060	30,500	53,560	0.00	0
15-Feb-07	11,120	2,000	13,120	28,400	41,520	0.00	0
16-Feb-07	10,770	16,000	26,770	31,900	58,670	0.02	91,244
17-Feb-07	0	0	0	0	0	0.00	0
18-Feb-07	0	0	0	0	0	0.15	684,332
19-Feb-07	0	0	0	0	0	0.00	0
20-Feb-07	37,800	29,000	66,800	121,400	188,200	0.00	0
21-Feb-07	12,710	12,000	24,710	33,200	57,910	0.00	0
22-Feb-07	11,730	10,800	22,530	29,700	52,230	0.00	0
23-Feb-07	12,030	8,600	20,630	30,200	50,830	0.00	0
24-Feb-07	0	0	0	0	0	0.00	0
25-Feb-07	0	0	0	0	0	0.00	0
26-Feb-07	40,050	11,600	51,650	99,100	150,750	0.05	228,111
27-Feb-07	11,540	7,800	19,340	25,300	44,640	0.00	0
28-Feb-07	12,230	3,900	16,130	31,800	47,930	0.00	0
01-Mar-07	0	0	0	0	0	0.00	0
02-Mar-07	0	0	0	0	0	0.00	0
03-Mar-07	0	0	0	0	0	0.00	0
TOTAL	323,150	186,900	510,050	881,000	1,391,050	1.09	4,972,812
Leachate Pumped as Percentage of Rainfall			16.9%	45.1%			

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	510,050	881,000	1,391,050	1.09	4,972,812	16.9%	45.1%
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	937,080	1,842,900	2,779,980	3.45	15,739,635	9.8%	29.8%

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
FEBRUARY 2007

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
2/1/07	3281976	216200	2368369	32.22	29.60	OK	AD
2/2/07	3283924	217900	2368751	32.24	29.62	OK	AD
2/5/07	3286443	227100	2369748	32.27	29.89	OK	AD
2/6/07	3287277	229400	2370080	32.27	29.89	OK	AD
2/7/07	3288269	235000	2370384	32.28	29.88	OK	AD
2/8/07	3289641	242700	2370760	32.25	29.88	OK	AD
2/9/07	3290823	250100	2371061	32.24	29.87	OK	AD
2/12/07	3294426	268700	2372053	32.23	29.79	OK	AD
2/13/07	3295750	283800	2372344	32.23	29.62	OK	AD
2/14/07	3297286	291500	2372649	32.28	29.74	OK	AD
2/15/07	3298398	293500	2372933	32.27	29.72	OK	AD
2/16/07	3299475	309500	2373252	32.27	29.71	OK	AD
2/19/07							
2/20/07	3305255	338500	2374466	32.25	29.50	OK	cm.
2/21/07	3304526	350500	2374778	32.22	29.50	OK	cm.
2/22/07	3305699	361300	2375095	32.22	29.49	OK	cm.
2/23/07	3306902	369900	2375397	32.30	29.40	OK	cm.
2/25/07							
2/26/07	3310907	381500	2376388	32.25	29.35	OK	cm.
2/27/07	3312010	389300	2376641	32.26	29.33	OK	AD
2/28/07	3313284	383200	2376959	32.26	29.33	OK	AD

Landfill

LANDFILL SHEET		
2007 Feb	RAIN FALL	LEACHATE MGD
1	0.03	0.009
2	0.11	0.009
3	0.05	0.008
4	0.03	0.008
5	0.00	0.008
6	0.00	0.008
7	0.00	0.009
8	0.00	0.009
9	0.00	0.009
10	0.00	0.008
11	0.00	0.008
12	0.33	0.009
13	0.32	0.010
14	0.00	0.009
15	0.00	0.008
16	0.02	0.008
17	0.00	0.008
18	0.15	0.008
19	0.00	0.007
20	0.00	0.008
21	0.00	0.008
22	0.00	0.008
23	0.00	0.008
24	0.00	0.009
25	0.00	0.008
26	0.05	0.008
27	0.00	0.010
28	0.00	0.008
TOTAL	1.09	0.235
AVG		0.008
MIN		
MAX	0.33	0.010

Fax# 9-741-3396

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: February 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	29.33	<i>inward</i>	GW-1	38.68	30.54
P-2	42.32	28.39	<i>inward</i>	GW-2	40.92	30.55
P-3	40.36	25.80	<i>inward</i>	GW-3	39.40	32.12
P-4	40.78	22.15	<i>inward</i>	GW-4	40.53	31.79
P-5	40.73	21.68	<i>inward</i>	GW-5	39.90	31.15
P-6	40.74	21.33	<i>inward</i>	GW-6	38.95	30.45
P-7	40.60	21.29	<i>inward</i>	GW-7	39.49	28.33
P-8	40.21	21.23	<i>inward</i>	GW-8	39.75	27.34
P-9	39.97	21.28	<i>inward</i>	GW-9	39.65	26.81
P-10	39.86	20.33	<i>inward</i>	GW-10	38.34	27.03
P-11	40.52	22.70	<i>inward</i>	GW-11	38.26	29.43
P-12	43.28	29.32	<i>inward</i>	GW-12	42.09	30.30
P-13	44.78	30.23	<i>inward</i>	GW-13	44.79	32.19
P-14	45.09	29.80	<i>inward</i>	GW-14	39.63	34.06
P-15	45.57	30.90	<i>inward</i>	GW-15	42.33	35.04
P-16	44.67	31.01	<i>inward</i>	GW-16	44.41	34.85
P-17	44.28	29.84	<i>inward</i>	GW-17	42.19	33.33

Comments:

Date Data Collected: February 21, 2007

Form Revised December 6, 2004