



An employee-owned company

39884

July 14, 2005

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AUG 11 2005  
SOUTHWEST DISTRICT TAMPA

Mr. John Morris, P.G.  
Florida Department of Environmental Protection  
Southwest District Office - Solid Waste Section  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**Re: Manatee County Lena Road Landfill  
Monthly Report – June 2005**

Dear Mr. Morris:

Attached is the June 2005 monthly report for the Lena Road Landfill in accordance with Specific Condition Numbers 17, 18, and 33 of Operations Permit Number 39884-001-SO. The report consists of the monthly water balance report (Exhibit A), the field readings for the water balance report, the leachate-tracking summary (Exhibit B), and a monthly groundwater gradient report.

An inward gradient was present in Stage I and Stage III of the landfill. An outward gradient was present in Stage II of the landfill. Please note that Stage II contains no solid waste.

The month of June saw a total of 10.15-inches of rainfall recorded for the entire month. The highest daily rate of 2.00 inches fell on June 11.

If you should have any questions concerning this report, please contact me in our Orlando office at 407/647-7275, Ext. 4153.

Sincerely,

Joe Miller, P.E.  
Senior Project Manager

cc: Daniel T. Gray, Director, Utility Operations Department  
Gus DiFonzo, Solid Waste Manager  
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division  
File – 120498.93 0100, June 2005

U:\OldGWASTEMAN\Manatee County\SW-05 Annual Monitoring\2005\June\_2005\MonthlyLtr\_June2005.doc

EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

JUNE, 2005

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-Jun-05	17,240	3,560	20,800	232,700	253,500	1.87	8,531,338
02-Jun-05	20,950	3,550	24,500	369,200	393,700	1.12	5,109,679
03-Jun-05	22,270	3,830	26,100	327,600	353,700	0.10	456,221
04-Jun-05	0	0	0	0	0	0.99	4,516,591
05-Jun-05	0	0	0	0	0	0.05	228,111
06-Jun-05	63,490	10,880	74,370	627,800	702,170	0.01	45,622
07-Jun-05	20,290	3,880	24,170	145,000	169,170	0.00	0
08-Jun-05	20,580	3,880	24,460	120,600	145,060	0.23	1,049,309
09-Jun-05	19,340	3,890	23,230	109,500	132,730	0.00	0
10-Jun-05	16,600	3,310	19,910	92,600	112,510	0.53	2,417,973
11-Jun-05	0	0	0	0	0	2.00	9,124,426
12-Jun-05	0	0	0	0	0	0.80	3,649,770
13-Jun-05	72,340	11,930	84,270	949,300	1,033,570	0.00	0
14-Jun-05	23,460	4,170	27,630	209,400	237,030	0.00	0
15-Jun-05	20,690	4,190	24,880	168,600	193,480	0.00	0
16-Jun-05	21,590	3,920	25,510	147,800	173,310	0.00	0
17-Jun-05	21,650	4,190	25,840	130,500	156,340	0.00	0
18-Jun-05	0	0	0	0	0	0.00	0
19-Jun-05	0	0	0	0	0	0.00	0
20-Jun-05	57,700	11,480	69,180	324,400	393,580	0.00	0
21-Jun-05	16,800	3,350	20,150	92,500	112,650	0.75	3,421,660
22-Jun-05	17,330	3,290	20,620	109,100	129,720	0.02	91,244
23-Jun-05	17,770	3,580	21,350	105,000	126,350	0.15	684,332
24-Jun-05	19,480	3,880	23,360	97,700	121,060	0.02	91,244
25-Jun-05	0	0	0	0	0	0.25	1,140,553
26-Jun-05	0	0	0	0	0	0.00	0
27-Jun-05	56,150	10,890	67,040	258,600	325,640	0.10	456,221
28-Jun-05	16,300	3,320	19,620	79,600	99,220	0.87	3,969,125
29-Jun-05	17,900	3,320	21,220	82,200	103,420	0.04	182,489
30-Jun-05	18,820	3,570	22,390	91,000	113,390	0.25	1,140,553
	0	0	0	0	0		0
<b>TOTAL</b>	<b>598,740</b>	<b>111,860</b>	<b>710,600</b>	<b>4,870,700</b>	<b>5,581,300</b>	<b>10.15</b>	<b>46,306,462</b>
Leachate Pumped as Percentage of Rainfall			2.5%	26.8%			

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
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

Comments

## EXHIBIT B

### MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2005

	B	C	D	E	F	G	H
MONTH	STAGE I LEACHATE (gallons)	STAGE III LEACHATE (gallons)	TOTAL LEACHATE (gallons)	RAINFALL (inches)	RAINFALL (gallons)	STAGE I LEACHATE/ RAINFALL (%)	STAGE III LEACHATE/ RAINFALL (%)
JANUARY	736,740	2,684,167	3,420,907	1.51	6,888,942	17.6%	99.2%
FEBRUARY	545,500	2,046,567	2,592,067	4.89	22,309,222	4.0%	23.4%
MARCH	779,900	5,231,667	6,011,567	5.34	24,362,218	5.3%	54.7%
APRIL	607,730	2,340,867	2,948,597	4.57	20,849,314	4.8%	28.6%
MAY	636,620	2,336,167	2,972,787	3.92	17,883,875	5.9%	33.3%
JUNE	710,600	4,870,700	5,581,300	10.15	46,306,462	2.5%	26.8%
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
<b>TOTAL</b>	<b>4,017,090</b>	<b>19,510,135</b>	<b>23,527,225</b>	<b>30.38</b>	<b>138,600,032</b>	<b>4.8%</b>	<b>35.8%</b>

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

**LEACHATE METER READINGS  
JUNE 2005**

DATE	LEACHATE				STORMWATER		W. W. T. P. INTAKE METER	NAME
	METER # 1	METER # 2	METER # 3	TOTALS	S. G.	S. G. #2		
6/1/05	2387567	1666492	1842340		34.56	30.74		SL
6/2/05	2389662	1666847	1846032		34.54	30.95		SL
6/3/05	2391889	1667230	1849308		34.28	29.87		SL
6/6/05	2398238	1668318	1855586		35.00	30.52		SL
6/7/05	2400267	1668706	1857036		35.04	30.52		SL
6/8/05	2402325	1669094	1858242		35.04	30.52		SL
6/9/05	2404259	1669483	1859337		35.00	30.52		SL
6/10/05	2405919	1669814	1860263		34.35	30.88		SL
6/13/05	2413153	1671007	1869756		36.30	30.63		SL
6/14/05	2415499	1671424	1871850		35.38	30.04		SL
6/15/05	2417568	1671843	1873536		34.60	29.85		SL
6/16/05	2419727	1672235	1875014		34.04	29.70		SL
6/17/05	2421892	1672654	1876319		34.04	DRY		SL
6/20/05	2427662	1673802	1879563		34.06	30.22		SL
6/21/05	2429342	1674137	1880488		34.06	30.27		SL
6/22/05	2431075	1674466	1881579		34.13	30.53		SL
6/23/05	2432852	1674824	1882629		34.14	29.75		SL
6/24/05	2434800	1675212	1883606		34.15	28.85		SL
6/27/05	2440415	1676301	1886192		34.17	29.30		SL
6/28/05	2442045	1676633	1886988		34.05	29.75		SL
6/29/05	2443835	1676965	1887810		34.01	30.55		SL
6/30/05	2445717	1677322	1888720		34.16	29.35		SL

Landfill

LANDFILL SHEET		
2005 JUN	RAIN FALL	LEACHATE MGD
1	1.87	0.408
2	1.12	0.380
3	0.10	0.172
4	0.99	0.173
5	0.05	0.317
6	0.01	0.177
7	0.00	0.148
8	0.23	0.129
9	0.00	0.118
10	0.53	0.110
11	2.00	0.456
12	0.80	0.347
13	0.00	0.293
14	0.00	0.212
15	0.00	0.185
16	0.00	0.164
17	0.00	0.150
18	0.00	0.137
19	0.00	0.127
20	0.00	0.117
21	0.75	0.115
22	0.02	0.131
23	0.15	0.123
24	0.02	0.116
25	0.25	0.107
26	0.00	0.101
27	0.10	0.110
28	0.87	0.133
29	0.04	0.156
30	0.25	0.165
<b>TOTAL</b>	<b>10.15</b>	<b>5.577</b>
<b>AVG</b>		<b>0.186</b>
<b>MIN</b>		
<b>MAX</b>	<b>2.00</b>	<b>0.456</b>

Fax # 9-741-3396