



COMPLETE 3RD QUARTER

Dept. of Environmental Protection  
OCT 16 2006  
Southwest District

October 11, 2006

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 – September 2006**

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 407/647-7275, Ext. 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  
 SEPTEMBER, 2006

Dept. of Environmental Protection  
 OCT 16 2006  
 Southwest District

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-Sep-06	20,600	127,160	147,760	127,600	275,360	0.49	2,235,484
02-Sep-06	0	0	0	0	0	0.00	0
03-Sep-06	0	0	0	0	0	0.17	775,576
04-Sep-06	0	0	0	0	0	0.22	1,003,687
05-Sep-06	83,340	603,330	686,670	463,400	1,150,070	0.00	0
06-Sep-06	3,460	0	3,460	114,000	117,460	0.61	2,782,950
07-Sep-06	58,440	132,460	190,900	231,700	422,600	0.21	958,065
08-Sep-06	5,170	0	5,170	29,100	34,270	0.19	866,820
09-Sep-06	0	0	0	0	0	0.89	4,060,370
10-Sep-06	0	0	0	0	0	0.17	775,576
11-Sep-06	64,780	56,110	120,890	315,000	435,890	1.50	6,843,320
12-Sep-06	29,150	57,050	86,200	154,900	241,100	2.20	10,036,869
13-Sep-06	24,280	5,740	30,020	132,500	162,520	0.90	4,105,992
14-Sep-06	39,130	15,850	54,980	30,100	85,080	0.18	821,198
15-Sep-06	50,080	200	50,280	283,300	333,580	0.00	0
16-Sep-06	0	0	0	0	0	0.29	1,323,042
17-Sep-06	0	0	0	0	0	0.00	0
18-Sep-06	76,530	318,210	394,740	480,100	874,840	0.00	0
19-Sep-06	370	85,800	86,170	2,000	88,170	2.28	10,401,846
20-Sep-06	47,750	117,920	165,670	285,600	451,270	0.88	4,014,747
21-Sep-06	25,880	101,220	127,100	142,100	269,200	0.00	0
22-Sep-06	20,390	158,870	179,260	109,500	288,760	0.00	0
23-Sep-06	0	0	0	0	0	0.00	0
24-Sep-06	0	0	0	0	0	0.00	0
25-Sep-06	68,830	872,130	940,960	357,000	1,297,960	0.00	0
26-Sep-06	20,780	231,550	252,330	150,700	403,030	0.22	1,003,687
27-Sep-06	21,030	222,630	243,660	109,900	353,560	0.22	1,003,687
28-Sep-06	22,790	158,560	181,350	112,900	294,250	0.00	0
29-Sep-06	18,310	20	18,330	88,500	106,830	0.00	0
30-Sep-06	0	0	0	0	0	0.00	0
01-Oct-06	0	0	0	0	0		0
<b>TOTAL</b>	<b>701,090</b>	<b>3,264,810</b>	<b>3,965,900</b>	<b>3,719,900</b>	<b>7,685,800</b>	<b>11.62</b>	<b>53,012,916</b>
Leachate Pumped as Percentage of Rainfall			12.3%	17.9%			

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 -- 2006

	B	C	D	E	F	G	H
MONTH	STAGE I	STAGE III	TOTAL			STAGE I	STAGE III
	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	LEACHATE/ RAINFALL	LEACHATE /RAINFALL
	(gallons)	(gallons)	(gallons)	(inches)	(gallons)	(%)	(%)
JANUARY	367,660	3,189,600	3,557,260	1.78	8,120,739	7.5%	100.0%
FEBRUARY	504,280	1,919,500	2,423,780	2.09	9,535,025	8.7%	51.2%
MARCH	451,140	1,709,800	2,160,940	1.07	4,881,568	15.2%	89.2%
APRIL	394,120	1,366,500	1,760,620	0.21	958,065	67.8%	363.1%
MAY	429,690	1,582,600	2,012,290	1.51	6,888,942	10.3%	58.5%
JUNE	462,310	1,971,000	2,433,310	8.15	37,182,036	2.0%	13.5%
JULY	636,220	2,865,400	3,501,620	9.49	43,295,402	2.4%	16.8%
AUGUST	1,296,150	3,662,000	4,958,150	9.79	44,664,066	4.8%	20.9%
SEPTEMBER	3,965,900	3,719,900	7,685,800	11.62	53,012,916	12.3%	17.9%
OCTOBER							
NOVEMBER							
DECEMBER							
<b>TOTAL</b>	<b>8,507,470</b>	<b>21,986,300</b>	<b>30,493,770</b>	<b>45.71</b>	<b>208,538,758</b>	<b>6.7%</b>	<b>26.8%</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	Stage III	TOTAL
	(acres)	(acres)	(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>

Landfill

LANDFILL SHEET		
2006 Sep	RAIN FALL	LEACHATE MGD
1	0.49	0.009
2	0.00	0.006
3	0.17	0.000
4	0.22	0.001
5	0.00	0.001
6	0.61	0.001
7	0.21	0.001
8	0.19	0.001
9	0.89	0.003
10	0.17	0.020
11	1.50	0.009
12	2.20	0.027
13	0.90	0.122
14	0.18	0.579
15	0.00	0.579
16	0.29	0.849
17	0.00	0.588
18	0.00	0.514
19	2.28	0.297
20	0.88	0.064
21	0.00	0.173
22	0.00	0.038
23	0.00	0.352
24	0.00	0.170
25	0.00	0.282
26	0.22	0.185
27	0.22	0.079
28	0.00	0.207
29	0.00	0.039
30	0.00	0.001
	0.00	0.000
TOTAL	11.62	5.197
AVG		0.168
MIN		
MAX	2.28	0.849

Fax # 9-741-3396