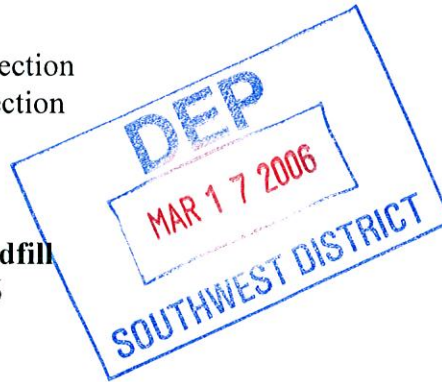




An employee-owned company

March 15, 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 – February 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 and the Monthly Groundwater Gradient Report. An inward gradient was present in Stage I and Stage III of the landfill.

The groundwater monitoring wells and piezometers were replaced as required by the recently issued landfill operation permit. Piezometers P-3, P-4, P-5, P-6, and P-7 could not be installed on the north side of the Stage III Landfill due to the construction in this area related to replacement of the leachate collection system. To determine the gradient direction, the water level in GW-3, GW-4 and GW-5 were compared to the leachate reading in P-2; and GW-6 and GW-7 were compared to PZ-13. P-11 and GW-11 could not be installed on the south side of the Stage III Landfill due to the pending construction. Existing PZ-17 and GC-6 were left in place to measure the gradient direction on the south side of the Stage III Landfill. The leachate collection system replacement is now complete and P-3, P-4, P-5, P-6, P-7, P-11 and GW-11 are scheduled for installation in the next month.

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, December 2005

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**EXHIBIT A**

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY  
 LENA ROAD LANDFILL  
 MONTHLY WATER BALANCE REPORT  
 FEBRUARY, 2006

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-06	59,390	19,090	78,480	2,700	81,180	0.00	0
02-Feb-06	22,030	5,040	27,070	149,500	176,570	0.00	0
03-Feb-06	19,370	4,180	23,550	80,300	103,850	0.64	2,919,816
04-Feb-06	0	0	0	0	0	0.51	2,326,729
05-Feb-06	0	0	0	0	0	0.02	91,244
06-Feb-06	41,920	9,640	51,560	232,100	283,660	0.00	0
07-Feb-06	11,820	2,730	14,550	75,500	90,050	0.00	0
08-Feb-06	12,440	2,990	15,430	71,900	87,330	0.00	0
09-Feb-06	2,540	2,720	5,260	71,700	76,960	0.00	0
10-Feb-06	17,560	2,730	20,290	69,800	90,090	0.00	0
11-Feb-06	0	0	0	0	0	0.22	1,003,687
12-Feb-06	0	0	0	0	0	0.00	0
13-Feb-06	41,300	8,680	49,980	208,500	258,480	0.00	0
14-Feb-06	8,830	2,360	11,190	68,200	79,390	0.00	0
15-Feb-06	10,050	2,340	12,390	66,500	78,890	0.00	0
16-Feb-06	11,710	2,730	14,440	63,500	77,940	0.00	0
17-Feb-06	13,110	3,000	16,110	66,500	82,610	0.00	0
18-Feb-06	0	0	0	0	0	0.00	0
19-Feb-06	0	0	0	0	0	0.00	0
20-Feb-06	0	0	0	0	0	0.00	0
21-Feb-06	49,590	11,760	61,350	256,600	317,950	0.00	0
22-Feb-06	13,340	3,020	16,360	65,200	81,560	0.00	0
23-Feb-06	12,270	3,000	15,270	59,800	75,070	0.00	0
24-Feb-06	11,780	2,730	14,510	64,200	78,710	0.06	273,733
25-Feb-06	0	0	0	0	0	0.00	0
26-Feb-06	0	0	0	0	0	0.64	2,919,816
27-Feb-06	35,280	7,920	43,200	185,800	229,000	0.00	0
28-Feb-06	10,570	2,720	13,290	61,200	74,490	0.00	0
	0	0	0	0	0	0.00	0
	0	0	0	0	0	0.00	0
	0	0	0	0	0	0.00	0
<b>TOTAL</b>	<b>404,900</b>	<b>99,380</b>	<b>504,280</b>	<b>1,919,500</b>	<b>2,423,780</b>	<b>2.09</b>	<b>9,535,025</b>
Leachate Pumped as Percentage of Rainfall			8.7%	51.2%			

**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							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
<b>TOTAL</b>	<b>871,940</b>	<b>5,109,100</b>	<b>5,981,040</b>	<b>3.87</b>	<b>17,655,764</b>	<b>8.1%</b>	<b>73.7%</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 Feb	RAIN FALL	LEACHATE MGD
1	0.00	0.152
2	0.00	0.143
3	0.64	0.139
4	0.51	0.154
5	0.02	0.130
6	0.00	0.133
7	0.00	0.114
8	0.00	0.103
9	0.00	0.110
10	0.00	0.108
11	0.22	0.111
12	0.00	0.102
13	0.00	0.113
14	0.00	0.117
15	0.00	0.120
16	0.00	0.113
17	0.00	0.107
18	0.00	0.102
19	0.00	0.095
20	0.00	0.089
21	0.00	0.087
22	0.00	0.092
23	0.00	0.088
24	0.06	0.084
25	0.00	0.084
26	0.64	0.087
27	0.00	0.073
28	0.00	0.076
TOTAL	2.09	3.026
AVG		0.108
MIN		
MAX	0.64	0.154

Fax # 9-741-3396

