



Dept. of Environmental Protection

MAY 17 2006

Southwest District

May 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 – April 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

U:\SO\OldG\WASTEMAN\Manatee County\SW-05 Annual Monitoring\2006\April\MonthlyLtr_April2006.doc

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

MAY 17 2006

APRIL, 2006

Southwest District

A	B	C	D	E	F		
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-Apr-06	0	0	0	0	0	0.00	0
02-Apr-06	0	0	0	0	0	0.00	0
03-Apr-06	33,940	8,020	41,960	146,200	188,160	0.00	0
04-Apr-06	13,160	2,940	16,100	52,700	68,800	0.00	0
05-Apr-06	12,320	3,290	15,610	49,300	64,910	0.00	0
06-Apr-06	12,470	2,660	15,130	50,600	65,730	0.00	0
07-Apr-06	12,240	3,080	15,320	49,200	64,520	0.00	0
08-Apr-06	0	0	0	0	0	0.00	0
09-Apr-06	0	0	0	0	0	0.19	866,820
10-Apr-06	37,060	8,660	45,720	151,900	197,620	0.00	0
11-Apr-06	9,760	2,430	12,190	52,300	64,490	0.00	0
12-Apr-06	7,770	1,900	9,670	44,200	53,870	0.00	0
13-Apr-06	9,250	1,930	11,180	50,500	61,680	0.00	0
14-Apr-06	10,740	3,220	13,960	48,900	62,860	0.00	0
15-Apr-06	0	0	0	0	0	0.00	0
16-Apr-06	0	0	0	0	0	0.00	0
17-Apr-06	36,540	8,690	45,230	144,600	189,830	0.00	0
18-Apr-06	13,430	3,260	16,690	48,500	65,190	0.00	0
19-Apr-06	12,450	2,980	15,430	49,000	64,430	0.00	0
20-Apr-06	11,590	2,710	14,300	49,600	63,900	0.00	0
21-Apr-06	9,940	2,440	12,380	47,500	59,880	0.00	0
22-Apr-06	0	0	0	0	0	0.00	0
23-Apr-06	0	0	0	0	0	0.00	0
24-Apr-06	30,210	7,830	38,040	187,800	225,840	0.00	0
25-Apr-06	11,330	2,980	14,310	1,600	15,910	0.00	0
26-Apr-06	11,760	2,720	14,480	49,800	64,280	0.00	0
27-Apr-06	9,690	2,710	12,400	71,000	83,400	0.02	91,244
28-Apr-06	11,330	2,690	14,020	21,300	35,320	0.00	0
29-Apr-06	0	0	0	0	0	0.00	0
30-Apr-06	0	0	0	0	0	0.00	0
	0	0	0	0	0	0.00	0
TOTAL	316,980	77,140	394,120	1,366,500	1,760,620	0.21	958,065
Leachate Pumped as Percentage of Rainfall			67.8%	363.1%			

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 -- 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							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	1,717,200	8,185,400	9,902,600	5.15	23,495,397	12.0%	88.7%

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
APR 14 2006

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER #1	METER #2	METER #3	S. G. #1	S. G. #2		
4/3/06	2847449	1768231	2160864	31.85	29.40	OK	AD
4/4/06	2848765	1768525	2161391	31.87	29.40	OK	AD
4/5/06	2849997	1768854	2161884	31.87	29.40	OK	AD
4/6/06	2851244	1769120	2162390	31.87	29.40	OK	AD
4/7/06	2852468	1769428	2162882	31.87	29.40	OK	AD
4/10/06	2856174	1770294	2164401	32.00	29.40	OK	AD
4/11/06	2857150	1770537	2164924	32.00	29.40	OK	AD
4/12/06	2857927	1770227	2165366	32.00	29.40	OK	AD
4/13/06	2858852	1770920	2165871	32.00	29.40	OK	AD
4/14/06	2859926	1771242	2166360	32.00	29.40	OK	AD
4/17/06	2863580	1772111	2167806	32.00	29.40	OK	AD
4/18/06	2864923	1772427	2168221	32.00	29.40	OK	AD
4/19/06	2866168	1772735	2168781	32.00	29.40	OK	AD
4/20/06	2867327	1773006	2169277	32.00	29.40	OK	AD
4/21/06	2868321	1773250	2169752	32.00	29.40	OK	AD
4/24/06	2871342	1774033	2171113	32.00	29.40	OK	AD
4/25/06	2872425	1774331	2171646	32.00	29.40	OK	AD
4/26/06	2873651	1774603	2172144	32.00	29.40	OK	AD
4/27/06	2874620	1774874	2172554	32.02	-	OK	GS
4/28/06	2875793	1775145	2173067	32.02	-	OK	GS

Landfill

LANDFILL SHEET		
2006 Apr	RAIN FALL	LEACHATE MGD
1	0.00	0.055
2	0.00	0.054
3	0.00	0.054
4	0.00	0.054
5	0.00	0.052
6	0.00	0.052
7	0.00	0.051
8	0.00	0.051
9	0.19	0.051
10	0.00	0.046
11	0.00	0.044
12	0.00	0.045
13	0.00	0.044
14	0.00	0.045
15	0.00	0.046
16	0.00	0.046
17	0.00	0.046
18	0.00	0.045
19	0.00	0.044
20	0.00	0.043
21	0.00	0.042
22	0.00	0.040
23	0.00	0.041
24	0.00	0.041
25	0.00	0.042
26	0.00	0.041
27	0.02	0.041
28	0.00	0.039
29	0.00	0.039
30	0.00	0.039
	0.00	0.000
TOTAL	0.21	1.373
AVG		0.044
MIN		
MAX	0.19	0.055

Fax # 9-741-3396

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: April 2006

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	29.27	<i>inward</i>	GW-1	38.68	29.38
P-2	42.32	28.31	<i>inward</i>	GW-2	40.92	29.35
P-3 *	42.32	28.24	<i>inward</i>	GW-3	39.40	30.89
P-4 *	42.32	23.95	<i>inward</i>	GW-4	40.53	30.22
P-5 *	42.32	22.93	<i>inward</i>	GW-5	39.90	29.53
P-6 *	42.32	21.45	<i>inward</i>	GW-6	38.95	28.64
P-7*	42.32	20.62	<i>inward</i>	GW-7	39.49	26.54
P-8	40.21	18.62	<i>inward</i>	GW-8	39.75	25.78
P-9	39.97	19.48	<i>inward</i>	GW-9	39.65	26.25
P-10	39.86	19.33	<i>inward</i>	GW-10	38.34	26.15
P-11**	40.57	23.02	<i>inward</i>	GW-11 **	39.02	30.22
P-12	43.28	29.29	<i>inward</i>	GW-12	42.09	29.67
P-13	44.78	30.20	<i>inward</i>	GW-13	44.79	31.88
P-14	45.09	29.79	<i>inward</i>	GW-14	39.63	33.91
P-15	45.57	30.89	<i>inward</i>	GW-15	42.33	35.42
P-16	44.67	30.99	<i>inward</i>	GW-16	44.41	35.15
P-17	44.28	29.81	<i>inward</i>	GW-17	42.19	33.00

Comments:

* Piezometers P-3, P-4, P-5, P-6 and P-7 were installed but not surveyed. Riser elevations estimated based on P-2.

** P-11 and GW-11 were installed, but not surveyed. Riser elevations were estimated based on dike elevations.

Date Data Collected: April 21, 2006

Form Revised December 6, 2004