



An employee-owned company

November 13, 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 – October 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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MAY 2007 - JUN 07 09884
MAY 2007 - APR 11
JUN 07 - MAY 14
DEC 06 - JAN 10
OCT 06 - NOV 15
Dept. of Environmental
Protection

NOV 15 2006

Southwest District

EXHIBIT A

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

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 NOV 15 2006
 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-Oct-06	0	0	0	0	0	0.00	0
02-Oct-06	46,660	0	46,660	231,500	278,160	0.00	0
03-Oct-06	16,360	49,500	65,860	81,300	147,160	0.00	0
04-Oct-06	19,940	520	20,460	143,100	163,560	0.00	0
05-Oct-06	17,550	10	17,560	83,000	100,560	0.00	0
06-Oct-06	13,420	93,990	107,410	56,900	164,310	0.00	0
07-Oct-06	0	0	0	0	0	0.00	0
08-Oct-06	0	0	0	0	0	0.00	0
09-Oct-06	50,730	146,040	196,770	216,500	413,270	0.00	0
10-Oct-06	18,570	322,220	340,790	78,300	419,090	0.00	0
11-Oct-06	20,840	186,450	207,290	79,200	286,490	0.00	0
12-Oct-06	17,870	112,730	130,600	67,400	198,000	0.10	456,221
13-Oct-06	15,850	82,070	97,920	64,200	162,120	0.00	0
14-Oct-06	0	0	0	0	0	0.00	0
15-Oct-06	0	0	0	0	0	0.00	0
16-Oct-06	38,740	697,690	736,430	170,800	907,230	0.00	0
17-Oct-06	15,300	323,630	338,930	61,800	400,730	0.00	0
18-Oct-06	20,230	0	20,230	76,600	96,830	0.00	0
19-Oct-06	11,490	0	11,490	41,300	52,790	0.00	0
20-Oct-06	15,810	0	15,810	57,900	73,710	0.00	0
21-Oct-06	0	0	0	0	0	0.00	0
22-Oct-06	0	0	0	0	0	0.00	0
23-Oct-06	45,440	0	45,440	187,800	233,240	0.00	0
24-Oct-06	11,000	2,800	13,800	55,300	69,100	0.00	0
25-Oct-06	20,900	0	20,900	91,700	112,600	0.00	0
26-Oct-06	14,030	0	14,030	54,200	68,230	0.00	0
27-Oct-06	0	0	0	0	0	0.00	0
28-Oct-06	0	0	0	0	0	1.70	7,755,762
29-Oct-06	0	0	0	0	0	0.00	0
30-Oct-06	47,690	17,100	64,790	191,400	256,190	0.00	0
31-Oct-06	11,930	2,300	14,230	48,300	62,530	0.00	0
TOTAL	490,350	2,037,050	2,527,400	2,138,500	4,665,900	1.80	8,211,983
Leachate Pumped as Percentage of Rainfall			50.7%	66.3%			

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
	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	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	2,527,400	2,138,500	4,665,900	1.80	8,211,983	50.7%	66.3%
NOVEMBER							
DECEMBER							
TOTAL	11,034,870	24,124,800	35,159,670	47.51	216,750,742	8.4%	28.3%

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
OCTOBER 2006**

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
10/2/06	3129911	2204178	2313391	31.92	31.26	OK	AD
10/3/06	3131547	2204178	2314204	31.90	31.26	OK	AD
10/4/06	3133541	2204160	2315635	31.89	31.25	OK	AD
10/5/06	3135296	2204681	2316465	31.99	31.10	OK	AD
10/6/06	3136638	2219080	2317034	32.00	31.10	OK	cm.
10/7/06							
10/9/06	3141711	2233684	2319199	32.00	30.96	OK	AD
10/10/06	3143568	2265906	2319982	32.00	30.96	OK	AD
10/11/06	3145652	2284551	2320774	31.97	30.95	OK	AD
10/12/06	3147439	2295824	2321448	31.96	30.95	OK	AD
10/13/06	3149024	2304031	2322090	31.98	30.95	OK	AD
10/14/06							
10/16/06	3152898	2373800	2323798	32.20	30.60	OK	AD
10/17/06	3154428	2406163	2324416	32.20	30.60	OK	AD
10/18/06	3156451	Don't work in 5 Hop	2325182	32.27	30.57	OK	AD
10/19/06	3157600	↓	2325595	32.26	30.48	OK	AD
10/20/06	3159181	Don't work in 5 Hop	2326174	32.29	30.18	OK	cm.
10/21/06		↓					
10/23/06	3163725	↓	2328052	32.29	30.18	OK	AD
10/24/06	3164825	2800	2328605	31.85	30.20	OK	AD
10/25/06	3166915		2329572	32.00	30.20	OK	cm.
10/26/06	3168318		2330064	32.00	30.20	OK	cm.
10/27/06							
10/28/06							
10/30/06	3173087	19900	2331978	32.10	30.59	OK	AD
10/31/06	3174280	22200	2332461	32.10	30.57	OK	AD

Landfill

LANDFILL SHEET		
2006 Oct	RAIN FALL	LEACHATE MGD
1	0.00	0.071
2	0.00	0.059
3	0.00	0.066
4	0.00	0.073
5	0.00	0.072
6	0.00	0.077
7	0.00	0.065
8	0.00	0.065
9	0.00	0.069
10	0.00	0.068
11	0.00	0.065
12	0.10	0.056
13	0.00	0.056
14	0.00	0.095
15	0.00	0.057
16	0.00	0.059
17	0.00	0.058
18	0.00	0.058
19	0.00	0.056
20	0.00	0.055
21	0.00	0.053
22	0.00	0.051
23	0.00	0.050
24	0.00	0.057
25	0.00	0.059
26	0.00	0.500
27	0.00	0.013
28	1.70	0.066
29	0.00	0.061
30	0.00	0.063
31	0.00	0.064
TOTAL	1.80	2.337
AVG		0.075
MIN		
MAX	1.70	0.500

Fax # 9-741-3396

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: October 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	29.54	inward	GW-1	38.68	31.10
P-2	42.32	28.55	inward	GW-2	40.92	31.11
P-3	40.36	27.94	inward	GW-3	39.40	32.83
P-4	40.78	22.41	inward	GW-4	40.53	31.94
P-5	40.73	21.21	inward	GW-5	39.90	31.57
P-6	40.74	19.85	inward	GW-6	38.95	30.73
P-7	40.60	18.91	inward	GW-7	39.49	28.70
P-8	40.21	18.70	inward	GW-8	39.75	27.69
P-9	39.97	19.42	inward	GW-9	39.65	28.27
P-10	39.86	19.25	inward	GW-10	38.34	28.71
P-11	40.52	22.84	inward	GW-11	38.26	30.55
P-12	43.28	29.39	inward	GW-12	42.09	30.89
P-13	44.78	30.24	inward	GW-13	44.79	32.13
P-14	45.09	29.76	inward	GW-14	39.63	33.98
P-15	45.57	30.92	inward	GW-15	42.33	35.25
P-16	44.67	30.93	inward	GW-16	44.41	36.24
P-17	44.28	29.89	inward	GW-17	42.19	33.65

Comments:

Date Data Collected: October 12, 2006

Form Revised December 6, 2004