



An employee-owned company

Dept. of Environmental Protection
SEP 15 2006
Southwest District

September 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 – August 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
 AUGUST, 2006

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 SEP 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-Aug-06	16,960	4,890	21,850	130,600	152,450	0.00	0
02-Aug-06	15,970	5,110	21,080	106,900	127,980	0.00	0
03-Aug-06	16,610	5,290	21,900	107,100	129,000	0.03	136,866
04-Aug-06	19,510	5,050	24,560	146,000	170,560	0.03	136,866
05-Aug-06	0	0	0	0	0	0.04	182,489
06-Aug-06	0	0	0	0	0	0.00	0
07-Aug-06	24,220	10,130	34,350	306,700	341,050	0.38	1,733,641
08-Aug-06	16,380	3,970	20,350	98,200	118,550	0.35	1,596,775
09-Aug-06	32,870	3,170	36,040	71,000	107,040	0.00	0
10-Aug-06	15,260	7,410	22,670	85,500	108,170	0.00	0
11-Aug-06	18,000	0	18,000	97,700	115,700	0.00	0
12-Aug-06	0	0	0	0	0	0.00	0
13-Aug-06	0	0	0	0	0	0.01	45,622
14-Aug-06	40,370	13,500	53,870	301,100	354,970	2.20	10,036,869
15-Aug-06	20,500	72,140	92,640	97,000	189,640	0.74	3,376,038
16-Aug-06	21,110	6,140	27,250	140,000	167,250	0.20	912,443
17-Aug-06	14,270	3,580	17,850	99,500	117,350	0.35	1,596,775
18-Aug-06	19,560	9,170	28,730	129,700	158,430	0.00	0
19-Aug-06	0	0	0	0	0	2.00	9,124,426
20-Aug-06	0	0	0	0	0	0.83	3,786,637
21-Aug-06	73,280	224,640	297,920	442,300	740,220	0.00	0
22-Aug-06	17,550	89,820	107,370	128,800	236,170	0.00	0
23-Aug-06	19,720	45,820	65,540	127,900	193,440	0.00	0
24-Aug-06	20,920	18,370	39,290	118,600	157,890	0.63	2,874,194
25-Aug-06	21,710	2,750	24,460	133,900	158,360	0.14	638,710
26-Aug-06	0	0	0	0	0	0.65	2,965,438
27-Aug-06	0	0	0	0	0	0.63	2,874,194
28-Aug-06	70,450	98,950	169,400	396,400	565,800	0.00	0
29-Aug-06	23,890	26,030	49,920	143,600	193,520	0.00	0
30-Aug-06	24,520	43,570	68,090	127,500	195,590	0.31	1,414,286
31-Aug-06	22,710	10,310	33,020	126,000	159,020	0.27	1,231,798
TOTAL	586,340	709,810	1,296,150	3,662,000	4,958,150	9.79	44,664,066
Leachate Pumped as Percentage of Rainfall			4.8%	20.9%			

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
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	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							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	4,541,570	18,266,400	22,807,970	34.09	155,525,843	4.8%	29.9%

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
AUGUST 2006

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER #1	METER #2	METER #3	S. G. #1	S. G. #2		
8/1/06	2948198	1802705	2238563	34.23	32.09	OK	AD
8/2/06	2999795	1802216	2239632	34.20	32.00	OK	AD
8/3/06	3001456	1802745	2240203	34.16	31.94	OK	AD
8/4/06	3003407	1809250	2242113	34.12	31.90	OK	AD
8/7/06	3005057	1810203	2245230	34.08	31.86	OK	AD
8/8/06	3007462	1810160	2246212	34.08	31.64	OK	AD
8/9/06	3016154	1810977	2249222	34.05	31.60	OK	AD
8/10/06	3022280	1811352	2247777	34.00	31.57	OK	AD
8/11/06	3014080	1811718	2248754	34.00	31.50	OK	AD
8/14/06	3018117	1813068	2251765	34.08	31.36	OK	AD
8/15/06	3020167	1820282	2252735	34.50	32.30	OK	AD
8/16/06	3020278	1820296	2254135	34.20	32.29	OK	AD
8/17/06	3023705	1821254	2255130	34.29	32.29	OK	AD
8/18/06	3025661	1822171	2256427	33.84	32.24	OK	AD
8/21/06	3032989	1844635	2260850	33.89	32.32	OK	AD
8/22/06	3034744	1855617	2262138	33.89	32.29	OK	AD
8/23/06	3036716	1859199	2263417	33.30	32.25	OK	CMC
8/24/06	3038908	1860036	2264603	33.25	32.25	OK	CMC
8/25/06	3040979	1860311	2265972	33.55	32.30	OK	CMC
8/28/06	3046024	1820206	2269406	34.56	32.29	OK	AD
8/29/06	3050410	1872209	2271342	34.00	32.28	OK	AD
8/30/06	3052265	1877166	2272617	33.98	32.10	OK	AD
8/31/06	3055136	1878197	2273877	32.89	32.06	OK	AD

Landfill

LANDFILL SHEET		
2006 Aug	RAIN FALL	LEACHATE MGD
1	0.00	0.023
2	0.00	0.019
3	0.03	0.024
4	0.03	0.030
5	0.04	0.033
6	0.00	0.022
7	0.38	0.029
8	0.35	0.024
9	0.00	0.022
10	0.00	0.025
11	0.00	0.023
12	0.00	0.015
13	0.01	0.034
14	2.20	0.031
15	0.74	0.081
16	0.20	0.057
17	0.35	0.009
18	0.00	0.011
19	2.00	0.053
20	0.83	0.021
21	0.00	0.007
22	0.00	0.010
23	0.00	0.003
24	0.63	0.006
25	0.14	0.013
26	0.65	0.017
27	0.63	0.035
28	0.00	0.014
29	0.00	0.013
30	0.31	0.022
31	0.27	0.011
TOTAL	9.79	0.742
AVG		0.024
MIN		
MAX	2.20	0.081

Fax # 9-741-3396