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July 9, 2012

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

Dept. Of Environmental Protection

JUL 11 2012

Southwest District

**Re: Manatee County Lena Road Landfill
Monthly Report – June 2012**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2012 (Exhibit B), Monthly Leachate Meter Readings, Monthly Rainfall, and Monthly Groundwater Gradient Report.

An inward gradient was present in the Stage I Landfill and the Stage III Landfill.

If you should have any questions concerning this report, please call me at 407/806-4153.

Sincerely,

Joe Miller, P.E.
Senior Project Manager

Attachments

cc: Mike Gore, Manatee County Solid Waste Division Manager
Bryan White, Manatee County Landfill Superintendent
Anthony Detweiler, Manatee County Landfill Operations Supervisor
File – 120498.94 0100

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EXHIBIT A

Dept. Of Environmental Protection

JUL 11 2012

Southwest District

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

JUNE, 2012

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-Jun-12	11,020	410	11,430	8,800	20,230	4.01	18,294,474
02-Jun-12	0	0	0	0	0	0.05	228,111
03-Jun-12	0	0	0	0	0	0.00	0
04-Jun-12	49,820	710	50,530	54,100	104,630	0.00	0
05-Jun-12	18,280	50	18,330	15,800	34,130	0.23	1,049,309
06-Jun-12	16,550	0	16,550	16,200	32,750	1.22	5,565,900
07-Jun-12	20,150	10	20,160	22,000	42,160	2.55	11,633,643
08-Jun-12	24,520	40	24,560	22,700	47,260	4.06	18,522,585
09-Jun-12	0	0	0	0	0	0.00	0
10-Jun-12	0	0	0	0	0	0.05	228,111
11-Jun-12	81,400	120	81,520	73,100	154,620	0.00	0
12-Jun-12	25,550	50	25,600	24,800	50,400	0.00	0
13-Jun-12	28,780	0	28,780	22,900	51,680	0.00	0
14-Jun-12	25,420	0	25,420	19,200	44,620	0.00	0
15-Jun-12	23,590	170	23,760	17,800	41,560	0.00	0
16-Jun-12	0	0	0	0	0	0.00	0
17-Jun-12	0	0	0	0	0	0.23	1,049,309
18-Jun-12	67,980	480	68,460	51,700	120,160	0.00	0
19-Jun-12	20,920	290	21,210	14,300	35,510	0.00	0
20-Jun-12	21,910	20	21,930	16,400	38,330	0.47	2,144,240
21-Jun-12	22,510	50	22,560	15,600	38,160	0.25	1,140,553
22-Jun-12	23,240	0	23,240	15,900	39,140	0.78	3,558,526
23-Jun-12	0	0	0	0	0	0.79	3,604,148
24-Jun-12	0	0	0	0	0	3.02	13,777,883
25-Jun-12	85,370	0	85,370	67,200	152,570	5.14	23,449,775
26-Jun-12	43,080	0	43,080	42,900	85,980	1.22	5,565,900
27-Jun-12	45,570	0	45,570	30,800	76,370	0.00	0
28-Jun-12	34,270	60	34,330	31,700	66,030	0.00	0
29-Jun-12	34,490	40	34,530	27,700	62,230	0.00	0
30-Jun-12	0	0	0	0	0	0.00	0
	0	0	0	0	0	0.00	0
TOTAL	724,420	2,500	726,920	611,600	1,338,520	24.07	109,812,468
Leachate Pumped as Percentage of Rainfall			1.1%	1.4%			

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 -- 2012

	B	C	D	E	F	G	H
MONTH	STAGE I LEACHATE (gallons)	STAGE III LEACHATE (gallons)	TOTAL LEACHATE (gallons)	RAINFALL (inches)	RAINFALL (gallons)	STAGE I LEACHATE/ RAINFALL (%)	STAGE III LEACHATE /RAINFALL (%)
JANUARY	524,770	212,500	737,270	0.94	4,288,480	20.2%	12.6%
FEBRUARY	500,670	193,200	693,870	0.64	2,919,816	28.2%	16.8%
MARCH	497,140	214,600	711,740	2.84	12,956,685	6.3%	4.2%
APRIL	448,000	284,900	732,900	4.66	21,259,913	3.5%	3.4%
MAY	401,400	277,100	678,500	2.30	10,493,090	6.3%	6.7%
JUNE	726,920	611,600	1,338,520	24.07	109,812,468	1.1%	1.4%
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	3,098,900	1,793,900	4,892,800	35.45	161,730,452	3.2%	2.8%

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 (acres)	Stage III (acres)	TOTAL (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

Landfill

LANDFILL SHEET			LAKE LEVEL DATA IN FEET NGVD	
2012 JUN	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1	4.01	0.007	40.40	29.50
2	0.05	0.008	40.30	29.60
3	0.00	0.007	40.00	29.50
4	0.00	0.008	40.30	29.60
5	0.23	0.008	40.30	29.70
6	1.22	0.008	40.40	29.70
7	2.55	0.005	40.50	29.90
8	4.06	0.005	40.50	30.10
9	0.00	0.000	40.70	30.60
10	0.05	0.000	40.70	30.60
11	0.00	0.005	40.70	30.60
12	0.00	0.005	40.70	30.70
13	0.00	0.005	40.70	30.70
14	0.00	0.005	40.70	30.80
15	0.00	0.005	40.70	30.80
16	0.00	0.005	40.80	30.70
17	0.23	0.005	40.70	30.60
18	0.00	0.005	40.70	30.40
19	0.00	0.005	40.70	30.50
20	0.47	0.005	40.70	30.50
21	0.25	0.005	40.70	30.50
22	0.78	0.006	40.80	30.60
23	0.79	0.006	40.80	30.80
24	3.02	0.008	41.10	31.30
25	5.14	0.012	41.90	32.10
26	1.22	0.010	42.40	32.70
27	0.00	0.005	42.70	33.00
28	0.00	0.005	43.10	33.40
29	0.00	0.005	43.50	33.80
30	0.00	0.005	43.80	34.10
31				
TOTAL	24.07	0.173		
AVG		0.006		
MIN				
MAX	5.14	0.012		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: JUNE 2012

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	30.07	<i>inward</i>	GW-1	38.68	34.87
P-2	42.32	29.92	<i>inward</i>	GW-2	40.92	35.87
P-3	40.36	25.40	<i>inward</i>	GW-3	39.40	34.99
P-4	40.78	23.90	<i>inward</i>	GW-4	40.53	34.80
P-5	40.73	23.80	<i>inward</i>	GW-5	39.90	33.75
P-6	40.74	23.71	<i>inward</i>	GW-6	38.95	33.12
P-7	40.60	23.66	<i>inward</i>	GW-7	39.49	31.81
P-8	40.21	23.57	<i>inward</i>	GW-8	39.75	30.77
P-9	39.97	23.65	<i>inward</i>	GW-9	39.65	31.35
P-10	39.86	22.78	<i>inward</i>	GW-10	38.34	32.28
P-11	40.52	23.91	<i>inward</i>	GW-11	38.26	32.56
P-12	43.28	29.98	<i>inward</i>	GW-12	42.09	32.57
P-13	44.78	30.73	<i>inward</i>	GW-13	44.79	32.70
P-14	45.09	30.78	<i>inward</i>	GW-14	39.63	34.38
P-15	45.57	31.07	<i>inward</i>	GW-15	42.33	34.43
P-16	44.67	31.24	<i>inward</i>	GW-16	44.41	33.81
P-17	44.28	30.61	<i>inward</i>	GW-17	42.19	34.71

Comments:

Date Data Collected: June 8, 2012

Form Revised December 6, 2004