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March 11, 2014

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 2014**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2014 (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 407/806-4156.

Sincerely,

Raymundo Castro, P.E.
Project Engineer

Attachments

cc: C. Mike Gore, Manatee County Utilities Department Director
Bryan White, Manatee County Landfill Superintendent
Anthony Detweiler, Manatee County Landfill Operations Supervisor
File – 120498.94 0100

EXHIBIT B

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2014

	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	862,790	297,700	1,160,490	3.93	17,929,497	7.9%	4.2%
FEBRUARY	440,660	265,900	706,560	3.18	14,507,837	5.0%	4.7%
MARCH							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	1,303,450	563,600	1,867,050	7.11	32,437,335	6.6%	4.4%

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 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

LANDFILL SHEET			LAKE LEVEL DATA IN FEET NGVD	
2014 Feb	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1	0.25	0.008	45.10	37.60
2	0.00	0.008	45.40	37.60
3	0.00	0.007	45.60	37.70
4	0.00	0.007	45.60	37.60
5	0.00	0.007	45.60	37.60
6	0.00	0.006	45.70	37.60
7	0.03	0.006	45.70	37.60
8	0.00	0.007	45.80	37.60
9	0.00	0.007	45.80	37.50
10	0.00	0.007	45.70	37.50
11	0.00	0.007	45.70	37.60
12	2.20	0.008	45.90	37.60
13	0.00	0.008	46.10	37.70
14	0.00	0.009	46.10	37.70
15	0.00	0.007	46.20	37.70
16	0.00	0.007	46.20	37.70
17	0.00	0.007	46.20	37.60
18	0.00	0.009	46.20	37.70
19	0.00	0.009	46.20	37.80
20	0.00	0.007	46.20	37.90
21	0.00	0.007	46.30	37.90
22	0.35	0.007	46.30	37.90
23	0.00	0.007	46.30	37.80
24	0.00	0.007	46.40	37.80
25	0.00	0.006	46.50	37.80
26	0.29	0.008	46.40	37.80
27	0.06	0.006	46.60	37.70
28	0.00	0.006	46.60	37.70
29				
30				
31				
TOTAL	3.18	0.202		
AVG		0.007		
MIN				
MAX	2.20	0.009		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: JANUARY 2014

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	30.16	<i>inward</i>	GW-1	38.68	33.35
P-2	42.32	29.92	<i>inward</i>	GW-2	40.92	33.10
P-3	40.36	24.94	<i>inward</i>	GW-3	39.40	32.43
P-4	40.78	23.68	<i>inward</i>	GW-4	40.53	31.87
P-5	40.73	23.63	<i>inward</i>	GW-5	39.90	31.46
P-6	40.74	23.58	<i>inward</i>	GW-6	38.95	30.39
P-7	40.60	23.51	<i>inward</i>	GW-7	39.49	27.81
P-8	40.21	23.47	<i>inward</i>	GW-8	39.75	26.59
P-9	39.97	23.58	<i>inward</i>	GW-9	39.65	26.93
P-10	39.86	22.57	<i>inward</i>	GW-10	38.34	26.96
P-11	40.52	23.78	<i>inward</i>	GW-11	38.26	28.52
P-12	43.28	30.24	<i>inward</i>	GW-12	42.09	31.31
P-13	44.78	30.68	<i>inward</i>	GW-13	44.79	34.51
P-14	45.09	29.91	<i>inward</i>	GW-14	39.63	34.75
P-15	45.57	31.01	<i>inward</i>	GW-15	42.33	35.76
P-16	44.67	31.29	<i>inward</i>	GW-16	44.41	35.67
P-17	44.28	30.16	<i>inward</i>	GW-17	42.19	34.48

Comments:

Date Data Collected: FEBRUARY 20, 2014

Form Revised December 6, 2004