

Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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April 13, 2006

Dept. of Environmental
Protection

APR 14 2006

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

Southwest District

RE: Southeast County Landfill – Leachate Data Quarterly Report

Dear Ms. Pelz:

In accordance with Specific Conditions No. 16 of Permit No. 35435-006-SO, the Solid Waste Management Department (SWMD) is submitting the quarterly Leachate Water Balance submittal for the Southeast County Landfill for the quarter ending April 15, 2006.

The data is being submitted as separate monthly reports for January, February and March 2006. The information includes the leachate level in Pump Station B (PS-B). PS-B was below the 24-inch normal operation level during this quarter except for January 7 and February 22, 2006.

Also attached is the top of the phosphatic clay liner elevation at the Pump Station B Sump.

Please advise should you have any questions concerning the attached submittal.

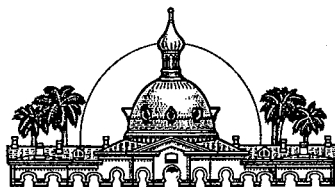
Sincerely,

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachment

xc: Larry Ruiz, SWMD
Walter Gray, SWMD
Rich Siemering, JEA
Paul Schipfer, EPC

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Dept. of Environmental Protection

February 27, 2006

APR 14 2006

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

Southwest District

RE: Southeast County Landfill –January 2006 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report Form for the month of January 2006. In addition, the SWMD is providing the January 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO, Specific Condition No. 16.

As initiated with the April 1996 report, the Landfill leachate information for January 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches except for January 7, 2006 due to a malfunction of the bubbler system. The average depth of leachate in the PS-B sump for the recorded days in January 2006 was 19.0 inches.

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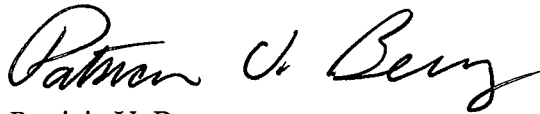
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Ms. Susan J. Pelz
February 27, 2006
Page Two

Please advise should you have any questions concerning the information provided.

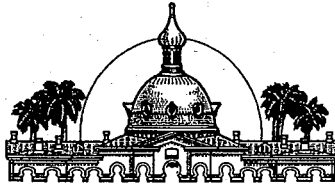
Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry". The signature is written in black ink and is positioned above the printed name and title.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea0106.dep



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MEMORANDUM

DATE: February 22, 2006

TO: Patricia Berry, Section Manager, Solid Waste Management Department

FROM: Larry Ruiz, General Manager, Solid Waste Management Department *LR*
Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT: Leachate Water Balance Report Forms for January 2006
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Department (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI and Section 7 of the Capacity Expansion for January 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 0.59 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

February 22, 2006

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 3.0 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the average depth of effluent stored in Pond B was 1.9 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches except for January 7 due to a malfunction of the bubbler system. The average depth of leachate in the PS-B sump was 19.0 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 1,197 gallons. A total of 37,100 gallons was pumped from TPS-6 to PS-B this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 37,876 gallons. A total of 1,174,148 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

February 22, 2006

Page 3 of 5

Leachate Pumped from Section 7-8 Leak Detection System (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7 and 8. The quantity is measured by a flow meter before being pumped back into the Section 7 sump for removal with Section 7 leachate. The removal rate did not exceed 1,250 gallons per day. This month a total of 1,116 gallons of leachate was removed from the leak detection system of Sections 7 and 8.

Leachate Pumped to MLPS from Section 7 (Column IX)

Column IX presents the quantity of leachate collected at Section 7 and pumped to the MLPS. Normally the quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7 and 8 (Column VIII). This month 57,924 gallons of leachate was pumped to the MLPS from Section 7.

Total Leachate Pumped to LTRF (Column X)

Column X presents the total quantity of leachate pumped to the LTRF through the MLPS from Phases I-VI and from Section 7. This month a total of 1,232,072 gallons of leachate was pumped from Phases I-VI and Section 7.

Leachate in 575,000-Gallon Tank (Column XI)

Column XI presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. The average daily amount of leachate stored in the tank this month was estimated at 249,100 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,330,200 gallons of leachate was treated at the LTRF.

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 180,605 gallons of leachate was hauled off site.

MEMORANDUM

February 22, 2006

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Leachate Dust Control (Sprayed) (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the Phases I-VI. This month leachate was not used for dust control.

Pond A Storage (Column XV)

Column XV presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 109,600 gallons of effluent was stored in Pond A.

Pond B Storage (Column XVI)

Column XVI presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). The volume of the pond at varying depths is estimated using AutoCAD software and calculations based on the conic method for reservoir volumes. Under normal operating conditions, the daily amount of effluent stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month a daily average of 71,400 gallons of effluent was stored in Pond B.

Effluent Sprayed at Pond B (Column XVII)

Column XVII presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B. Effluent was not sprayed at Pond B this month.

Effluent Irrigation (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 1,069,058 gallons of effluent was used as spray irrigation.

MEMORANDUM

February 22, 2006

Page 5 of 5

Effluent Dust Control (Sprayed) (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XX)

Column XX presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month a total of 54,484 gallons of effluent was hauled off site.

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 855,100 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 1,232,072 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,510,805 gallons. The change in storage for the month of January decreased by 278,733 gallons.

Please advise should you have any questions concerning the information provided.

TABLE I. LEACHATE WATER BALANCE REPORT FORM
JANUARY 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (in.)	Estimated Depth at PS-B (in.)	Leachate Pumped to PS-B from TPS-6 (gal.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped from Section 7-8 Leak Det. (gal.)	Leachate Pumped to MLPS from Section 7 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.10	2.3	1.5	21.4	1,686	35,988	41	2,757	38,745	358,000	44,300	0	0	74,000	44,000	0	0	0	0	0
2	0.00	3.1	1.5	18.3	114	36,908	42	0	36,908	353,000	50,500	0	0	113,000	44,000	0	49,219	0	0	39,400
3	0.00	3.0	1.5	18.1	0	39,433	42	2,808	42,241	353,000	44,200	18,066	0	108,000	44,000	0	0	0	0	0
4	0.00	3.6	1.7	17.4	3,040	40,299	38	2,296	42,595	329,000	46,700	6,019	0	145,000	57,000	0	22,110	0	0	17,700
5	0.00	3.6	1.8	16.6	2,610	39,982	29	0	39,982	326,000	45,000	0	0	145,000	64,000	0	48,350	0	18,190	38,700
6	0.00	3.3	2.0	15.5	1,780	45,148	39	2,709	47,857	324,000	51,000	12,035	0	123,000	80,000	0	77,300	0	0	61,800
7	0.00	2.6	2.0	33.4	1,785	31,530	40	0	31,530	309,000	46,300	0	0	88,000	80,000	0	67,556	0	0	54,000
8	0.00	2.3	1.8	15.6	2,088	34,357	37	2,645	37,002	302,000	42,100	0	0	74,000	64,000	0	0	0	0	0
9	0.00	2.9	1.9	18.1	1,837	30,697	37	0	30,697	295,000	46,900	12,033	0	103,000	72,000	0	46,994	0	0	37,600
10	0.00	3.1	1.9	16.8	1,300	33,006	36	2,669	35,675	276,000	58,100	18,049	0	113,000	72,000	0	51,062	0	0	40,800
11	0.00	2.9	1.9	19.2	430	37,721	39	0	37,721	252,000	40,700	6,017	0	103,000	72,000	0	50,512	0	0	40,400
12	0.00	2.7	1.9	16.0	0	40,341	12	2,294	42,635	250,000	46,700	12,032	0	93,000	72,000	0	50,877	0	0	40,700
13	0.01	2.6	1.9	15.5	1,590	42,322	56	0	42,322	242,000	44,500	6,015	0	88,000	72,000	0	34,074	0	12,130	27,300
14	0.00	2.4	1.9	15.8	675	44,938	34	2,597	47,535	247,000	44,500	0	0	79,000	72,000	0	54,274	0	0	43,400
15	0.00	2.9	1.9	17.7	130	40,412	38	0	40,412	245,000	37,200	0	0	103,000	72,000	0	0	0	0	0
16	0.00	2.9	1.8	19.5	19	36,840	34	2,683	39,523	245,000	47,400	0	0	103,000	64,000	0	0	0	0	0
17	0.13	3.6	1.8	17.6	1,456	39,945	14	0	39,945	242,000	44,000	12,029	0	145,000	64,000	0	80,552	0	0	64,400
18	0.00	2.9	1.9	19.9	800	39,899	20	0	39,899	238,000	44,900	12,031	0	103,000	72,000	0	0	0	0	0
19	0.25	3.6	1.9	21.1	1,050	28,111	46	3,961	32,072	242,000	45,200	18,046	0	145,000	72,000	0	45,810	0	0	36,600
20	0.00	3.3	2.0	21.6	380	33,504	31	2,908	36,412	192,000	45,200	0	0	123,000	80,000	0	42,766	0	12,091	34,200
21	0.00	3.2	2.0	18.7	0	37,851	32	2,998	40,849	192,000	45,300	0	0	118,000	80,000	0	73,626	0	0	58,900
22	0.00	2.4	2.0	22.1	100	35,182	35	2,728	37,910	185,000	44,400	0	0	79,000	80,000	0	0	0	0	0
23	0.00	3.4	2.0	22.0	0	39,334	36	2,803	42,137	189,000	46,200	6,027	0	129,000	80,000	0	50,024	0	0	40,000
24	0.00	3.3	2.0	15.7	3,370	41,423	31	0	41,423	185,000	44,800	0	0	123,000	80,000	0	45,892	0	0	36,700
25	0.00	3.2	2.0	17.6	3,650	40,619	35	2,878	43,497	185,000	45,300	18,076	0	118,000	80,000	0	0	0	0	0
26	0.00	3.6	2.0	22.4	0	35,241	42	2,915	38,156	178,000	30,500	18,116	0	145,000	80,000	0	43,318	0	0	34,700
27	0.00	3.1	2.0	17.4	1,350	30,886	39	2,466	33,352	170,000	32,000	0	0	113,000	80,000	0	46,204	0	12,073	37,000
28	0.00	2.7	2.0	17.8	2,130	32,064	45	5,088	37,152	180,000	32,100	0	0	93,000	80,000	0	45,776	0	0	36,600
29	0.00	2.1	2.0	21.3	220	35,339	13	0	35,339	185,000	29,200	0	0	65,000	80,000	0	0	0	0	0
30	0.00	2.9	2.0	17.8	0	47,649	53	2,985	50,634	214,000	33,500	0	0	103,000	80,000	0	0	0	0	0
31	0.10	3.5	2.0	21.1	3,510	47,179	50	2,736	49,915	238,000	31,500	6,014	0	140,000	80,000	0	42,762	0	0	34,200
Total	0.59				37,100	1,174,148	1,116	57,924	1,232,072		1,330,200	180,605	0				1,069,058	0	54,484	855,100
Daily Average		3.0	1.9	19.0	1,197	37,876	36	1,869	39,744	249,100				109,600	71,400	0				
Mo. Average													0				34,500	0	1,800	27,580

Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.

7. Column V, PPS-B sensor reading plus 9 inches.
8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
9. Column XI, calculated from depth in 575,000 gal. leachate tank.
10. Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
11. Column XXI includes 80% of the daily values from Columns XIV, XVIII, and XIX plus 5% of the daily values from column XVII.

projects\balance\2006\01-06\bal.xls (Revised by ler 2/22/06)

TABLE 2. FIELD DATA ENTRY FORM
JANUARY 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX
Day	Reading PS-B (in.)	Section 7-8 Leak Det. (gal.)	Section 7 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	12.4	147,814	2,074,181	5,642,756	9,946,926	12.42	0	0	0	0.10	2.3	1.5	0.0	44,317	0	0	0	0
2	9.3	147,856	2,074,181	5,642,870	9,983,834	12.25	0	0	0	0.00	3.1	1.5	0.0	50,537	49,219	0	0	0
3	9.1	147,898	2,076,989	5,642,870	23,267	12.25	0	18,066	0	0.00	3.0	1.5	0.0	44,204	0	0	0	0
4	8.4	147,936	2,079,285	5,645,910	63,566	11.42	0	6,019	0	0.00	3.6	1.7	0.0	46,725	22,110	0	0	0
5	7.6	147,965	2,079,285	5,648,520	103,548	11.33	0	0	0	0.00	3.6	1.8	0.0	44,979	48,350	0	18,190	0
6	6.5	148,004	2,081,994	5,650,300	148,696	11.25	0	12,035	0	0.00	3.3	2.0	0.0	51,039	77,300	0	0	0
7	24.4	148,044	2,081,994	5,652,085	180,226	10.75	0	0	0	0.00	2.6	2.0	0.0	46,314	67,556	0	0	0
8	6.6	148,081	2,084,639	5,654,173	214,583	10.50	0	0	0	0.00	2.3	1.8	0.0	42,121	0	0	0	0
9	9.1	148,118	2,084,639	5,656,010	245,280	10.25	0	12,033	0	0.00	2.9	1.9	0.0	46,865	46,994	0	0	0
10	7.8	148,154	2,087,308	5,657,310	278,286	9.58	0	18,049	0	0.00	3.1	1.9	0.0	58,145	51,062	0	0	0
11	10.2	148,193	2,087,308	5,657,740	316,007	8.75	0	6,017	0	0.00	2.9	1.9	0.0	40,737	50,512	0	0	0
12	7.0	148,205	2,089,602	5,657,740	356,348	8.67	0	12,032	0	0.00	2.7	1.9	0.0	46,704	50,877	0	0	0
13	6.5	148,261	2,089,602	5,659,330	398,670	8.42	0	6,015	0	0.01	2.6	1.9	0.0	44,502	34,074	0	12,130	0
14	6.8	148,295	2,092,199	5,660,005	443,608	8.58	0	0	0	0.00	2.4	1.9	0.0	44,544	54,274	0	0	0
15	8.7	148,333	2,092,199	5,660,135	484,020	8.50	0	0	0	0.00	2.9	1.9	0.0	37,173	0	0	0	0
16	10.5	148,367	2,094,882	5,660,154	520,860	8.50	0	0	0	0.00	2.9	1.8	0.0	47,430	0	0	0	0
17	8.6	148,381	2,094,882	5,661,610	560,805	8.42	0	12,029	0	0.13	3.6	1.8	0.0	44,047	80,552	0	0	0
18	10.9	148,401	2,094,882	5,662,410	600,704	8.25	0	12,031	0	0.00	2.9	1.9	0.0	44,865	0	0	0	0
19	12.1	148,447	2,098,843	5,663,460	628,815	8.42	0	18,046	0	0.25	3.6	1.9	0.0	45,211	45,810	0	0	0
20	12.6	148,478	2,101,751	5,663,840	662,319	6.67	0	0	0	0.00	3.3	2.0	0.0	45,249	42,766	0	12,091	0
21	9.7	148,510	2,104,749	5,663,840	700,170	6.67	0	0	0	0.00	3.2	2.0	0.0	45,293	73,626	0	0	0
22	13.1	148,545	2,107,477	5,663,940	735,352	6.42	0	0	0	0.00	2.4	2.0	0.0	44,430	0	0	0	0
23	13.0	148,581	2,110,280	5,663,940	774,686	6.58	0	6,027	0	0.00	3.4	2.0	0.0	46,208	50,024	0	0	0
24	6.7	148,612	2,110,280	5,667,310	816,109	6.42	0	0	0	0.00	3.3	2.0	0.0	44,782	45,892	0	0	0
25	8.6	148,647	2,113,158	5,670,960	856,728	6.42	0	18,076	0	0.00	3.2	2.0	0.0	45,349	0	0	0	0
26	13.4	148,689	2,116,073	5,670,960	891,969	6.17	0	18,116	0	0.00	3.6	2.0	0.0	30,528	43,318	0	0	0
27	8.4	148,728	2,118,539	5,672,310	922,855	5.92	0	0	0	0.00	3.1	2.0	0.0	31,965	46,204	0	12,073	0
28	8.8	148,773	2,123,627	5,674,440	954,919	6.25	0	0	0	0.00	2.7	2.0	0.0	32,064	45,776	0	0	0
29	12.3	148,786	2,123,627	5,674,660	990,258	6.42	0	0	0	0.00	2.1	2.0	0.0	29,209	0	0	0	0
30	8.8	148,839	2,126,612	5,674,660	1,037,907	7.42	0	0	0	0.00	2.9	2.0	0.0	33,456	0	0	0	0
31	12.1	148,889	2,129,348	5,678,170	1,085,086	8.25	0	6,014	0	0.10	3.5	2.0	0.0	31,535	42,762	0	0	0
Totals							0	180,605	0	0.59			0	1,330,527	1,069,058	0	54,484	0

projects\balance\2006\01-06bal.xls (Revised by ler 2/22/06)

Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
3. Column IV includes quantities from leak detection system.
4. Column XI, trace is less than 0.01 inches.
5. Columns III, IV, V, VI, VIII, IX, X, XIV, XV, XVI, XVII and XVIII are quantities from flow meters.
6. Columns XII and XIII measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Section 7 acres
Open	6	0
Intermediate	133.4	12.5
Final	23	0
Not Opened	0	0

TABLE 3. 2006 MONTHLY LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	0.00	0	0	0	0	0	0	0	0	0	0	0	0
March	0.00	0	0	0	0	0	0	0	0	0	0	0	0
April	0.00	0	0	0	0	0	0	0	0	0	0	0	0
May	0.00	0	0	0	0	0	0	0	0	0	0	0	0
June	0.00	0	0	0	0	0	0	0	0	0	0	0	0
July	0.00	0	0	0	0	0	0	0	0	0	0	0	0
August	0.00	0	0	0	0	0	0	0	0	0	0	0	0
September	0.00	0	0	0	0	0	0	0	0	0	0	0	0
October	0.00	0	0	0	0	0	0	0	0	0	0	0	0
November	0.00	0	0	0	0	0	0	0	0	0	0	0	0
December	0.00	0	0	0	0	0	0	0	0	0	0	0	0
YTD Total	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733

projects\balance\2006\2006-summary.xls (Revised by ler 2/22/06)

Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

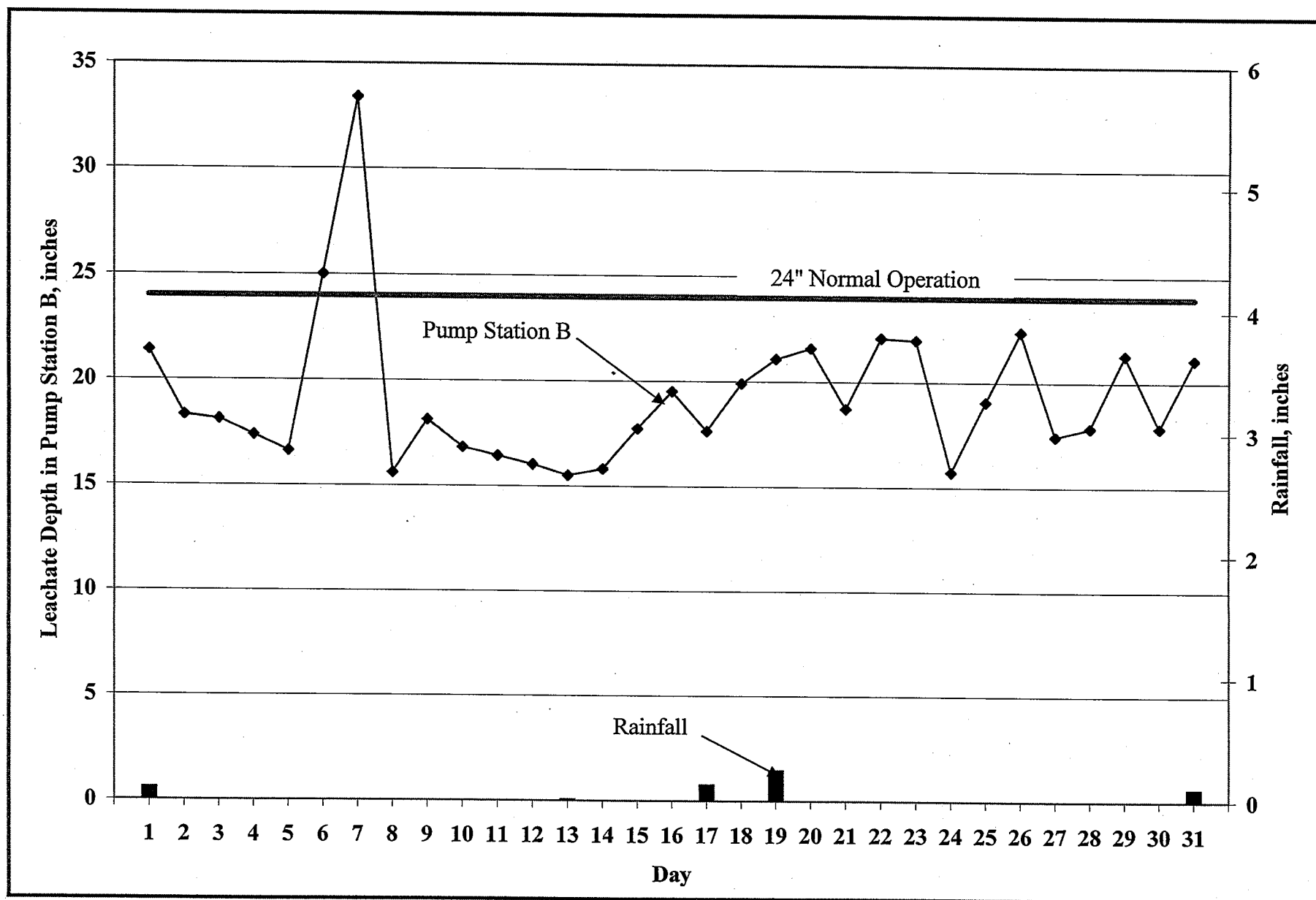


Figure 1. Leachate Levels in Pump Station B and Rainfall for January 2006.

**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) January, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate	Hauled	Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	1,686	0.00	12.4	35,988	2,757	41	12'5"	0	0	0	0.10
2	0.0	114	0.00	9.3	36,908	0	42	12'3"	0	0	0	0.00
3	0.0	0	0.00	9.1	39,433	2,808	42	12'3"	0	18,066	0	0.00
4	0.0	3,040	0.00	8.4	40,299	2,296	38	11'5"	0	6,019	0	0.00
5	0.0	2,610	0.00	7.6	39,982	0	29	11'4"	0	0	0	0.00
6	0.0	1,780	0.00	6.5	45,148	2,709	39	11'3"	0	12,035	0	0.00
7	0.0	1,785	0.00	24.4	31,530	0	40	10'9"	0	0	0	0.00
8	0.0	2,088	0.00	6.6	34,357	2,645	37	10'6"	0	0	0	0.00
9	0.0	1,837	0.00	9.1	30,697	0	37	10'3"	0	12,033	0	0.00
10	0.0	1,300	0.00	7.8	33,006	2,669	36	9'7"	0	18,049	0	0.00
11	0.0	430	0.00	10.2	37,721	0	75	8'9"	0	6,017	0	0.00
12	0.0	0	0.00	7.0	40,341	2,300	12	8'8"	0	12,032	0	0.00
13	0.0	1,590	0.00	6.5	42,322	0	56	8'5"	0	6,015	0	0.01
14	0.0	675	0.00	6.8	44,938	2,597	34	8'7"	0	0	0	0.00
15	0.0	130	0.00	8.7	40,412	0	38	8'6"	0	0	0	0.00
16	0.0	19	0.00	10.5	36,840	2,683	34	8'6"	0	0	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Jones

Revised Jan. 16, 2004

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LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year) January, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
17	0.0	1,456	0.00	8.6	39,945	0	14	8'5"	0	12,029	0	0.13
18	0.0	800	0.00	10.9	39,899	0	20	8'3"	0	12,031	0	0.00
19	0.0	1,050	0.00	12.1	28,111	3,961	46	8'5"	0	18,046	0	0.25
20	0.0	380	0.00	12.6	33,504	2,908	31	6'8"	0	0	0	0.00
21	0.0	0	0.00	9.7	37,851	2,998	35	6'8"	0	0	0	0.00
22	0.0	100	0.00	13.1	35,182	2,728	35	6'5"	0	0	0	0.00
23	0.0	330	0.00	13.0	39,334	2,803	36	6'7"	0	6,027	0	0.00
24	0.0	3,700	0.00	6.7	41,423	0	31	6'5"	0	0	0	0.00
25	0.0	3,650	0.00	8.6	40,619	2,878	35	6'5"	0	18,076	0	0.00
26	0.0	0	0.00	13.4	35,211	2,915	42	6'2"	0	18,116	0	0.00
27	0.0	1,350	0.00	8.4	30,886	2,466	39	5'11"	0	0	0	0.00
28	0.0	2,130	0.00	8.8	32,064	5,088	45	6'3"	0	0	0	0.00
29	0.0	220	0.00	12.3	35,339	0	13	6'5"	0	0	0	0.00
30	0.0	0	0.00	8.8	47,649	2,985	53	7'11"	0	0	0	0.10
31	0.0	3,510	0.00	12.1	47,179	2,736	50	8'3"	0	6,014	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Jones

Revised Jan. 16, 2004

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**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

January, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
1	2.30	1.50	0	44,317	0		0	0				
2	3.10	1.50	0	50,537	49,219		0	0				N
3	3.00	1.50	0	44,204	0		0	0				
4	3.60	1.70	0	46,725	22,110		0	0				N
5	3.60	1.80	0	44,979	48,350		0	18,190				N
6	3.30	2.00	0	51,039	77,300		0	0				N
7	2.60	2.00	0	46,314	67,556		0	0				N
8	2.30	1.80	0	42,121	0		0	0				
9	2.90	1.90	0	46,865	46,994		0	0				N
10	3.10	1.90	0	58,145	51,062		0	0				N
11	2.90	1.90	0	40,737	50,512		0	0				N
12	2.70	1.90	0	46,704	50,877		0	0				N
13	2.60	1.90	0	44,502	34,074		0	12,130				N
14	2.40	1.90	0	44,544	54,274		0	0				N
15	2.90	1.90	0	37,173	0		0	0				
16	2.90	1.80	0	47,430	0		0	0				

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond A. Davis

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

January, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent					Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)	
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)			Effluent Stored (gallons)
							Contractor (gallons)	County (gallons)				
17	3.60	1.80	0	44,047	80,552		0	0				N
18	2.90	1.90	0	44,865	0		0	0				
19	3.60	1.90	0	45,211	45,810		0	0				N
20	3.30	2.00	0	45,249	42,766		0	12,091				N
21	3.20	2.00	0	45,293	73,626		0	0				N
22	2.40	2.00	0	44,430	0		0	0				
23	3.40	2.00	0	46,208	50,024		0	0				N
24	3.30	2.00	0	44,782	45,892		0	0				N
25	3.20	2.00	0	45,349	0		0	0				
26	3.60	2.00	0	30,528	43,318		0	0				N
27	3.10	2.00	0	31,965	46,204		0	12,073				N
28	2.70	2.00	0	32,064	45,776		0	0				N
29	2.10	2.00	0	29,209	0		0	0				
30	2.90	2.00	0	33,456	0		0	0				
31	3.50	2.00	0	31,535	42,762		0	0				N

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

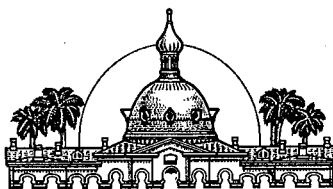
(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Starnes



Hillsborough County Florida

Office of the County Administrator
Patricia G. Bean

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March 31, 2006

Dept. of Environmental
Protection

APR 14 2006

Southwest District

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

RE: Southeast County Landfill -February 2006 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report Form for the month of February 2006. In addition, the SWMD is providing the February 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

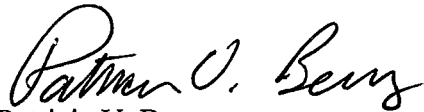
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO, Specific Condition No. 16.

As initiated with the April 1996 report, the Landfill leachate information for February 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches except for February 22 due to a malfunction of the bubbler system. The average depth of leachate in the PS-B sump for the recorded days in February 2006 was 18.8 inches.

Ms. Susan J. Pelz
March 31, 2006
Page Two

Please advise should you have any questions concerning the information provided.

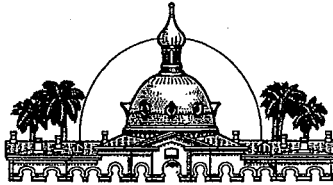
Sincerely,

A handwritten signature in black ink, appearing to read "Patricia V. Berry". The signature is fluid and cursive, with the first name "Patricia" being more prominent.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea0206.dep



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: March 24, 2006

TO: Patricia Berry, Section Manager, Solid Waste Management Department

FROM: Larry Ruiz, General Manager, Solid Waste Management Department *for*
Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT: Leachate Water Balance Report Forms for February 2006
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Department (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI and Section 7 of the Capacity Expansion for February 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 3.73 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

March 24, 2006

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 2.8 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the average depth of effluent stored in Pond B was 2.7 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches except for February 22 due to a malfunction of the bubbler system. The average depth of leachate in the PS-B sump was 18.8 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 608 gallons. A total of 17,020 gallons was pumped from TPS-6 to PS-B this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 37,009 gallons. A total of 1,036,262 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

March 24, 2006

Page 3 of 5

Leachate Pumped from Section 7-8 Leak Detection System (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7 and 8. The quantity is measured by a flow meter before being pumped back into the Section 7 sump for removal with Section 7 leachate. The removal rate did not exceed 1,250 gallons per day. This month a total of 1,834 gallons of leachate was removed from the leak detection system of Sections 7 and 8.

Leachate Pumped to MLPS from Section 7 (Column IX)

Column IX presents the quantity of leachate collected at Section 7 and pumped to the MLPS. Normally the quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7 and 8 (Column VIII). This month 100,705 gallons of leachate was pumped to the MLPS from Section 7.

Total Leachate Pumped to LTRF (Column X)

Column X presents the total quantity of leachate pumped to the LTRF through the MLPS from Phases I-VI and from Section 7. This month a total of 1,138,801 gallons of leachate was pumped from Phases I-VI and Section 7.

Leachate in 575,000-Gallon Tank (Column XI)

Column XI presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. The average daily amount of leachate stored in the tank this month was estimated at 315,300 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 901,500 gallons of leachate was treated at the LTRF.

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 246,866 gallons of leachate was hauled off site.

MEMORANDUM

March 24, 2006

Page 4 of 5

Leachate Dust Control (Sprayed) (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the Phases I-VI. This month a total of 87,519 gallons of leachate was used for dust control.

Pond A Storage (Column XV)

Column XV presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 105,100 gallons of effluent was stored in Pond A.

Pond B Storage (Column XVI)

Column XVI presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). The volume of the pond at varying depths is estimated using AutoCAD software and calculations based on the conic method for reservoir volumes. Under normal operating conditions, the daily amount of effluent stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month a daily average of 146,400 gallons of effluent was stored in Pond B.

Effluent Sprayed at Pond B (Column XVII)

Column XVII presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B. Effluent was not sprayed at Pond B this month.

Effluent Irrigation (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 790,611 gallons of effluent was used as spray irrigation.

MEMORANDUM

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Effluent Dust Control (Sprayed) (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XX)

Column XX presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month a total of 18,107 gallons of effluent was hauled off site.

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 702,600 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 1,136,967 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,235,885 gallons. The change in storage for the month of February decreased by 98,918 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
FEBRUARY 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (in.)	Estimated Depth at PS-B (in.)	Leachate Pumped to PS-B from TPS-6 (gal.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped from Section 7-8 Leak Det. (gal.)	Leachate Pumped to MLPS from Section 7 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.00	3.2	2.0	20.1	0	38,952	23	0	38,975	245,000	31,100	12,039	0	123,000	80,000	0	42,912	0	0	34,300
2	0.00	2.9	2.0	17.2	0	41,725	67	3,063	44,855	250,000	31,600	12,028	0	108,000	80,000	0	41,688	0	0	33,400
3	2.85	2.7	2.0	16.8	895	44,902	24	0	44,926	259,000	31,500	0	0	98,000	80,000	0	0	0	12,071	0
4	0.10	3.3	2.1	16.3	3,200	46,041	73	9,726	55,840	295,000	36,400	0	0	129,000	88,000	0	0	0	0	0
5	0.00	2.5	2.5	19.9	1,075	38,843	50	12,404	51,297	324,000	28,800	0	0	145,000	124,000	0	0	0	0	0
6	0.00	3.6	2.8	16.3	0	31,024	58	8,581	39,663	333,000	31,600	12,028	0	151,000	152,000	0	0	0	0	0
7	0.00	3.6	3.0	17.7	0	33,324	68	8,178	41,570	338,000	31,300	12,047	0	151,000	172,000	0	51,440	0	0	41,200
8	0.00	3.1	3.1	17.5	0	36,766	73	5,845	42,684	350,000	32,300	18,070	3,767	118,000	182,000	0	56,710	0	0	48,400
9	0.00	3.0	3.1	18.1	0	34,812	90	5,266	40,168	336,000	29,900	12,044	4,334	113,000	182,000	0	39,222	0	0	34,800
10	0.00	2.8	3.1	18.9	0	31,663	80	2,363	34,106	331,000	31,300	0	0	103,000	182,000	0	41,908	0	6,036	33,500
11	0.20	3.0	2.4	22.5	240	37,388	95	2,789	40,272	345,000	30,800	0	0	113,000	115,000	0	34,440	0	0	27,600
12	0.00	2.3	2.7	17.4	350	41,789	84	2,708	44,581	362,000	30,500	0	0	79,000	143,000	0	0	0	0	0
13	0.00	2.8	3.0	15.6	0	34,221	83	2,682	36,986	362,000	31,400	18,079	0	103,000	172,000	0	30,236	0	0	24,200
14	0.00	2.8	3.0	18.5	35	31,065	85	2,921	34,071	355,000	31,000	6,028	10,591	103,000	172,000	0	43,328	0	0	43,100
15	0.00	2.8	3.0	16.5	285	31,413	78	2,949	34,440	345,000	28,000	24,100	3,102	103,000	172,000	0	32,854	0	0	28,800
16	0.00	2.3	3.0	17.6	560	35,493	76	2,772	38,341	331,000	64,000	18,064	9,097	79,000	172,000	0	0	0	0	7,300
17	0.00	2.9	3.0	18.4	655	38,999	51	2,725	41,775	319,000	30,600	18,039	10,903	108,000	172,000	0	47,982	0	0	47,100
18	0.00	2.4	3.0	17.4	555	38,182	71	0	38,253	302,000	29,900	0	8,994	83,000	172,000	0	30,590	0	0	31,700
19	0.00	2.4	3.0	16.2	500	38,237	67	2,949	41,253	312,000	31,600	0	0	83,000	172,000	0	0	0	0	0
20	0.00	3.0	3.0	21.5	0	35,587	64	2,694	38,345	322,000	32,800	12,042	9,585	113,000	172,000	0	31,936	0	0	33,200
21	0.00	2.9	3.0	15.9	990	28,409	63	2,743	31,215	307,000	30,300	18,066	5,864	108,000	172,000	0	46,950	0	0	42,300
22	0.00	2.6	2.9	33.9	1,350	0	62	0	62	259,000	32,100	0	8,942	93,000	162,000	0	48,670	0	0	46,100
23	0.00	2.3	2.9	19.6	1,950	69,611	59	2,648	72,318	290,000	27,400	12,043	8,998	79,000	162,000	0	44,186	0	0	42,500
24	0.15	2.4	2.7	22.5	2,540	46,013	58	3,347	49,418	297,000	27,300	12,043	3,342	83,000	143,000	0	40,852	0	0	35,400
25	0.00	2.4	2.6	19.3	300	37,581	60	0	37,641	297,000	34,900	0	0	83,000	133,000	0	45,284	0	0	36,200
26	0.43	2.1	2.5	17.1	1,050	46,307	65	2,885	49,257	312,000	28,800	0	0	70,000	124,000	0	0	0	0	0
27	0.00	2.8	2.5	19.1	0	34,047	49	5,514	39,610	324,000	31,700	18,064	0	103,000	124,000	0	0	0	0	0
28	0.00	3.1	2.5	18.8	490	33,868	58	2,953	36,879	326,000	32,600	12,042	0	118,000	124,000	0	39,423	0	0	31,500
Total	3.73				17,020	1,036,262	1,834	100,705	1,138,801		901,500	246,866	87,519				790,611	0	18,107	702,600
Daily Average		2.8	2.7	18.8	608	37,009	66	3,597	40,671	315,300				105,100	146,400	0				
Mo. Average									40,671				3,100				28,200	0	600	25,090

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Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.

7. Column V, PPS-B sensor reading plus 9 inches.
8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
9. Column XI, calculated from depth in 575,000 gal. leachate tank.
10. Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
11. Column XXI includes 80% of the daily values from Columns XIV, XVIII, and XIX plus 5% of the daily values from column XVII.

TABLE 2. FIELD DATA ENTRY FORM
FEBRUARY 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX
Day	Reading PS-B (in.)	Section 7-8 Leak Det. (gal.)	Section 7 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	11.1	148,912	2,129,348	5,678,170	1,124,038	8.50	0	12,039	0	0.00	3.2	2.0	0.0	31,103	42,912	0	0	0.0
2	8.2	148,979	2,132,411	5,678,170	1,165,763	8.67	0	12,028	0	0.00	2.9	2.0	0.0	31,582	41,688	0	0	0.0
3	7.8	149,003	2,132,411	5,679,065	1,210,665	9.00	0	0	0	2.85	2.7	2.0	0.0	31,505	0	0	12,071	0.0
4	7.3	149,076	2,142,137	5,682,265	1,256,706	10.25	0	0	0	0.10	3.3	2.1	0.0	36,379	0	0	0	0.0
5	10.9	149,126	2,154,541	5,683,340	1,295,549	11.25	0	0	0	0.00	3.5	2.5	0.0	28,773	0	0	0	0.0
6	7.3	149,184	2,163,122	5,683,340	1,326,573	11.58	0	12,028	0	0.00	3.6	2.8	0.0	31,579	0	0	0	0.0
7	8.7	149,252	2,171,300	5,683,340	1,359,897	11.75	0	12,047	0	0.00	3.6	3.0	0.0	31,334	51,440	0	0	0.0
8	8.5	149,325	2,177,145	5,683,340	1,396,663	12.17	0	18,070	3,767	0.00	3.1	3.1	0.0	32,336	56,710	0	0	0.0
9	9.1	149,415	2,182,411	5,683,340	1,431,475	11.67	0	12,044	4,334	0.00	3.0	3.1	0.0	29,895	39,222	0	0	0.0
10	9.9	149,495	2,184,774	5,683,340	1,463,138	11.50	0	0	0	0.00	2.8	3.1	0.0	31,312	41,908	0	6,036	0.0
11	13.5	149,590	2,187,563	5,683,580	1,500,526	12.00	0	0	0	0.20	3.0	2.4	0.0	30,818	34,440	0	0	0.0
12	8.4	149,674	2,190,271	5,683,930	1,542,315	12.58	0	0	0	0.00	2.3	2.7	0.0	30,514	0	0	0	0.0
13	6.6	149,757	2,192,953	5,683,930	1,576,536	12.58	0	18,079	0	0.00	2.8	3.0	0.0	31,368	30,236	0	0	0.0
14	9.5	149,842	2,195,874	5,683,965	1,607,601	12.33	0	6,028	10,591	0.00	2.8	3.0	0.0	30,996	43,328	0	0	0.0
15	7.5	149,920	2,198,823	5,684,250	1,639,014	12.00	0	24,100	3,102	0.00	2.8	3.0	0.0	27,980	32,854	0	0	0.0
16	8.6	149,996	2,201,595	5,684,810	1,674,507	11.50	0	18,064	9,097	0.00	2.3	3.0	0.0	63,956	0	0	0	0.0
17	9.4	150,047	2,204,320	5,685,465	1,713,506	11.08	0	18,039	10,903	0.00	2.9	3.0	0.0	30,643	47,982	0	0	0.0
18	8.4	150,118	2,204,320	5,686,020	1,751,688	10.50	0	0	8,994	0.00	2.4	3.0	0.0	29,866	30,590	0	0	0.0
19	7.2	150,185	2,207,269	5,686,520	1,789,925	10.83	0	0	0	0.00	2.4	3.0	0.0	31,571	0	0	0	0.0
20	12.5	150,249	2,209,963	5,686,520	1,825,512	11.17	0	12,042	9,585	0.00	3.0	3.0	0.0	32,845	31,936	0	0	0.0
21	6.9	150,312	2,212,706	5,687,510	1,853,921	10.67	0	18,066	5,864	0.00	2.9	3.0	0.0	30,252	46,950	0	0	0.0
22	24.9	150,374	2,212,706	5,688,860	1,853,921	9.00	0	0	8,942	0.00	2.6	2.9	0.0	32,088	48,670	0	0	0.0
23	10.6	150,433	2,215,354	5,690,810	1,923,532	10.08	0	12,043	8,998	0.00	2.3	2.9	0.0	27,381	44,186	0	0	0.0
24	13.5	150,491	2,218,701	5,693,350	1,969,545	10.17	0	12,043	3,342	0.15	2.4	2.7	0.0	27,282	40,852	0	0	0.0
25	10.3	150,551	2,218,701	5,693,650	2,007,126	10.33	0	0	0	0.00	2.4	2.6	0.0	34,943	45,284	0	0	0.0
26	8.1	150,616	2,221,586	5,694,700	2,053,433	10.83	0	0	0	0.43	2.1	2.5	0.0	28,758	0	0	0	0.0
27	10.1	150,665	2,227,100	5,694,760	2,087,480	11.25	0	18,064	0	0.00	2.8	2.5	0.0	31,709	0	0	0	0.0
28	9.8	150,723	2,230,053	5,695,190	2,121,348	11.33	0	12,042	0	0.00	3.1	2.5	0.0	32,633	39,423	0	0	0.0
Totals							0	246,866	87,519	3.73			0	901,401	790,611	0	18,107	0

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Notes:

- NR = No Records, NA = Not Available.
- Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
- Column IV includes quantities from leak detection system.
- Column XI, trace is less than 0.01 inches.
- Columns III, IV, V, VI, VIII, IX, X, XIV, XV, XVI, XVII and XVIII are quantities from flow meters.
- Columns XII and XIII measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Section 7 acres
Open	6	0
Intermediate	133.4	12.5
Final	23	0
Not Opened	0	0

TABLE 3. 2006 MONTHLY LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/IRLF (gal.)	Leachate from Section 7 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.00	0	0	0	0	0	0	0	0	0	0	0	0
April	0.00	0	0	0	0	0	0	0	0	0	0	0	0
May	0.00	0	0	0	0	0	0	0	0	0	0	0	0
June	0.00	0	0	0	0	0	0	0	0	0	0	0	0
July	0.00	0	0	0	0	0	0	0	0	0	0	0	0
August	0.00	0	0	0	0	0	0	0	0	0	0	0	0
September	0.00	0	0	0	0	0	0	0	0	0	0	0	0
October	0.00	0	0	0	0	0	0	0	0	0	0	0	0
November	0.00	0	0	0	0	0	0	0	0	0	0	0	0
December	0.00	0	0	0	0	0	0	0	0	0	0	0	0
YTD Total	4.32	0	158,629	2,210,410	427,471	87,519	2,231,700	72,591	0	1,859,669	2,369,039	2,746,690	-377,651

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Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

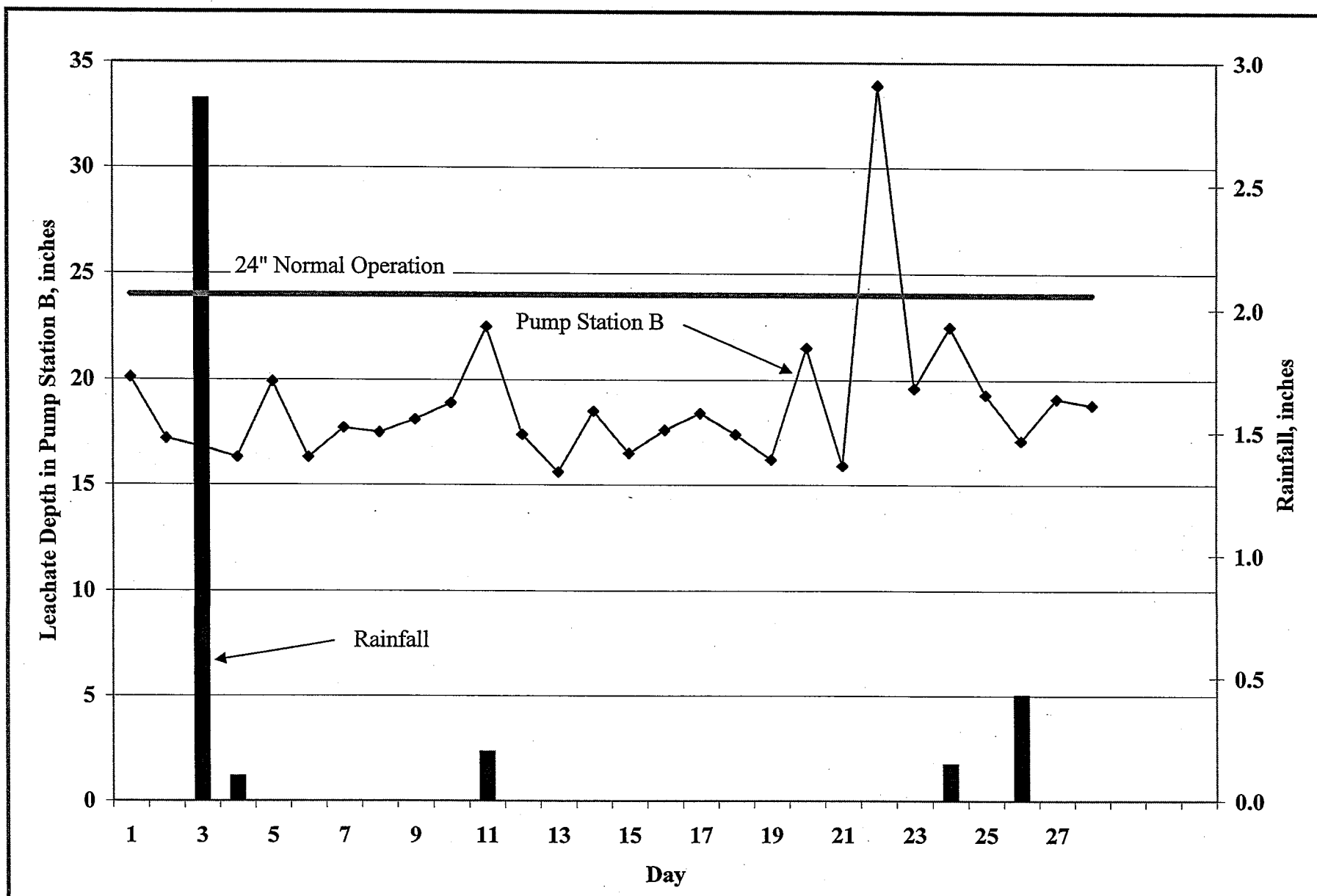


Figure 1. Leachate Levels in Pump Station B and Rainfall for February 2006.

**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) February, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	0	0.00	11.1	38,952	0	23	8'6"	0	12,039	0	0.00
2	0.0	0	0.00	8.2	41,725	3,063	67	8'8"	0	12,028	0	0.00
3	0.0	895	0.00	7.8	44,902	0	24	9'1"	0	0	0	2.85
4	0.0	3,200	0.00	7.3	46,041	9,726	73	10'3"	0	0	0	0.10
5	0.0	1,075	0.00	10.9	38,843	12,404	50	11'3"	0	0	0	0.00
6	0.0	0	0.00	7.3	31,024	8,581	58	11'7"	0	12,028	0	0.00
7	0.0	0	0.00	8.7	33,324	8,178	68	11'9"	0	12,047	0	0.00
8	0.0	0	0.00	8.5	36,766	5,845	73	12'2"	0	18,070	3,767	0.00
9	0.0	0	0.00	9.1	34,812	5,266	90	11'8"	0	12,044	4,334	0.00
10	0.0	0	0.00	9.9	31,723	2,363	80	11'6"	0	0	0	0.00
11	0.0	240	0.00	13.5	37,388	2,789	95	12'0"	0	18,079	0	0.20
12	0.0	350	0.00	8.4	41,789	2,708	84	12'7"	0	6,028	0	0.00
13	0.0	0	0.00	6.6	34,221	2,682	83	12'7"	0	0	0	0.00
14	0.0	35	0.00	9.5	31,065	2,921	85	12'4"	0	0	10,591	0.00
15	0.0	285	0.00	7.5	31,413	2,981	78	12'0"	0	24,100	3,102	0.00
16	0.0	560	0.00	8.6	35,493	2,772	76	11'6"	0	18,064	9,097	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Jones

Revised Jan. 16, 2004

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**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) February, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
17	0.0	655	0.00	9.4	38,999	2,725	51	11'1"	0	18,039	10,903	0.00
18	0.0	555	0.00	8.4	38,182	0	71	10'6"	0	0	8,994	0.00
19	0.0	0	0.00	7.2	38,237	2,949	67	10'10"	0	0	0	0.00
20	0.0	0	0.00	12.5	35,587	2,694	64	11'2"	0	12,042	9,585	0.00
21	0.0	990	0.00	6.9	28,409	2,743	63	10'8"	0	18,066	5,864	0.00
22	0.0	1,350	0.00	24.9	0	0	62	9'0"	0	0	8,942	0.00
23	0.0	1,950	0.00	10.6	69,611	2,648	59	10'1"	0	12,043	8,998	0.00
24	0.0	2,540	0.00	13.5	46,013	3,347	58	10'2"	0	12,043	3,342	0.15
25	0.0	300	0.00	10.3	37,581	0	60	10'4"	0	0	0	0.00
26	0.0	1,050	0.00	8.1	46,307	2,885	65	10'10"	0	0	0	0.43
27	0.0	60	0.00	10.1	34,047	5,514	49	11'3"	0	18,064	0	0.00
28	0.0	430	0.00	9.8	33,868	2,953	58	11'4"	0	12,042	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Lanes

Revised Jan. 16, 2004

09200020.24\Leachate Balance\LeachateData_\LeachateData_FEBUARY,2006.xls

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

February, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent					Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)	
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)			Effluent Stored (gallons)
							Contractor (gallons)	County (gallons)				
1	3.20	2.00	0	31,103	42,912		0	0				N
2	2.90	2.00	0	31,582	41,688		0	0				N
3	2.70	2.00	0	31,505	0		0	12,071				
4	3.30	2.10	0	36,379	0		0	0				
5	3.50	2.50	0	28,773	0		0	0				
6	3.60	2.80	0	31,579	0		0	0				
7	3.60	3.00	0	31,334	51,440		0	0				N
8	3.10	3.10	0	32,336	56,710		0	0				N
9	3.00	3.10	0	29,895	39,222		0	0				N
10	2.80	3.10	0	31,312	41,908		0	6,036				N
11	3.00	2.40	0	30,818	34,440		0	0				N
12	2.30	2.70	0	30,514	0		0	0				
13	2.80	3.00	0	31,368	30,236		0	0				N
14	2.80	3.00	0	30,996	43,328		0	0				N
15	2.80	3.00	0	27,980	32,854		0	0				N
16	2.30	3.00	0	63,956	0		0	0				

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Davis

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

February, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
17	2.90	3.00	0	30,643	47,982		0	0				N
18	2.40	3.00	0	29,866	30,590		0	0				N
19	2.40	3.00	0	31,571	0		0	0				
20	3.00	3.00	0	32,845	31,936		0	0				N
21	2.90	3.00	0	30,252	46,950		0	0				N
22	2.60	2.90	0	32,088	48,670		0	0				N
23	2.30	2.90	0	27,381	44,186		0	0				N
24	2.40	2.70	0	27,282	40,852		0	0				N
25	2.40	2.60	0	34,943	45,284		0	0				N
26	2.10	2.50	0	28,758	0		0	0				
27	2.80	2.50	0	31,709	0		0	0				
28	3.10	2.50	0	32,633	39,423		0	0				N

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

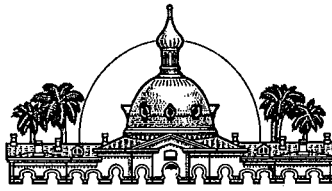
(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Jones



Hillsborough County Florida

Office of the County Administrator
Patricia G. Bean

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April 13, 2006

Dept. of Environmental
Protection

APR 14 2006

Southwest District

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

RE: Southeast County Landfill –March 2006 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report Form for the month of March 2006. In addition, the SWMD is providing the March 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

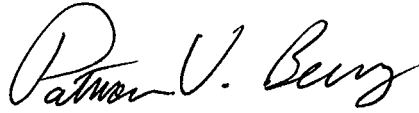
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO, Specific Condition No. 16.

As initiated with the April 1996 report, the Landfill leachate information for March 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches. The average depth of leachate in the PS-B sump for the recorded days in March 2006 was 18.4 inches.

Ms. Susan J. Pelz
April 13, 2006
Page Two

Please advise should you have any questions concerning the information provided.

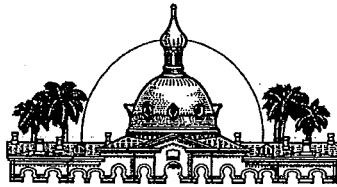
Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry". The signature is written in black ink and is positioned above the printed name.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea0406.dep



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: April 13, 2006

TO: Patricia Berry, Section Manager, Solid Waste Management Department

FROM: *fel* Larry Ruiz, General Manager, Solid Waste Management Department
Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT: Leachate Water Balance Report Forms for March 2006
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Department (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI and Section 7 of the Capacity Expansion for March 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 0.10 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

April 13, 2006

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 2.8 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the average depth of effluent stored in Pond B was 2.0 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches. The average depth of leachate in the PS-B sump was 18.4 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 695 gallons. A total of 21,550 gallons was pumped from TPS-6 to PS-B this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 36,977 gallons. A total of 1,146,298 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

April 13, 2006

Page 3 of 5

Leachate Pumped from Section 7-8 Leak Detection System (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7 and 8. The quantity is measured by a flow meter before being pumped back into the Section 7 sump for removal with Section 7 leachate. The removal rate did not exceed 1,250 gallons per day. This month a total of 1,427 gallons of leachate was removed from the leak detection system of Sections 7 and 8.

Leachate Pumped to MLPS from Section 7 (Column IX)

Column IX presents the quantity of leachate collected at Section 7 and pumped to the MLPS. Normally the quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7 and 8 (Column VIII). This month 58,666 gallons of leachate was pumped to the MLPS from Section 7.

Total Leachate Pumped to LTRF (Column X)

Column X presents the total quantity of leachate pumped to the LTRF through the MLPS from Phases I-VI and from Section 7. This month a total of 1,204,964 gallons of leachate was pumped from Phases I-VI and Section 7.

Leachate in 575,000-Gallon Tank (Column XI)

Column XI presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. The average daily amount of leachate stored in the tank this month was estimated at 340,400 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,034,200 gallons of leachate was treated at the LTRF.

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 235,508 gallons of leachate was hauled off site.

MEMORANDUM

April 13, 2006

Page 4 of 5

Leachate Dust Control (Sprayed) (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the Phases I-VI. This month a total of 160,066 gallons of leachate was used for dust control.

Pond A Storage (Column XV)

Column XV presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 100,600 gallons of effluent was stored in Pond A.

Pond B Storage (Column XVI)

Column XVI presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). The volume of the pond at varying depths is estimated using AutoCAD software and calculations based on the conic method for reservoir volumes. Under normal operating conditions, the daily amount of effluent stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month a daily average of 76,800 gallons of effluent was stored in Pond B.

Effluent Sprayed at Pond B (Column XVII)

Column XVII presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B. Effluent was not sprayed at Pond B this month.

Effluent Irrigation (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 985,357 gallons of effluent was used as spray irrigation.

MEMORANDUM

April 13, 2006

Page 5 of 5

Effluent Dust Control (Sprayed) (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XX)

Column XX presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month effluent was not hauled off site.

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 916,400 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 1,204,964 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,429,774 gallons. The change in storage for the month of March decreased by 224,810 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
MARCH 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (in.)	Estimated Depth at PS-B (in.)	Leachate Pumped to PS-B from TPS-6 (gal.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped from Section 7-8 Leak Det. (gal.)	Leachate Pumped to MLPS from Section 7 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.00	2.9	2.5	17.2	680	38,947	58	3,002	41,949	322,000	32,600	0	2,963	103,000	124,000	0	45,622	0	0	38,900
2	0.00	3.1	2.3	18.4	760	39,567	60	2,897	42,464	331,000	31,600	0	9,024	113,000	106,000	0	36,816	0	0	36,700
3	0.00	3.3	2.0	19.7	1,045	41,205	30	2,332	43,537	343,000	39,800	6,067	9,005	123,000	80,000	0	42,285	0	0	41,000
4	0.00	3.2	2.0	19.6	1,045	40,145	59	2,289	42,434	345,000	33,000	0	10,479	118,000	80,000	0	30,508	0	0	32,800
5	0.00	3.1	2.0	21.7	430	33,326	23	0	33,326	341,000	30,900	0	0	113,000	80,000	0	0	0	0	0
6	0.00	3.5	2.0	18.8	0	33,961	52	3,044	37,005	350,000	31,700	0	9,033	140,000	80,000	0	58,626	0	0	54,100
7	0.00	2.9	2.0	16.0	1,270	39,814	56	2,676	42,490	355,000	31,400	0	11,426	103,000	80,000	0	27,446	0	0	31,100
8	0.00	3.0	2.0	21.6	770	36,160	56	2,279	38,439	355,000	36,900	6,027	0	108,000	80,000	0	31,233	0	0	25,000
9	0.00	2.9	2.0	16.4	980	37,491	49	0	37,491	355,000	25,100	12,055	8,994	103,000	80,000	0	31,134	0	0	32,100
10	0.00	2.8	2.0	17.4	1,120	41,111	54	3,009	44,120	360,000	29,800	6,021	10,543	98,000	80,000	0	38,356	0	0	39,100
11	0.00	2.6	2.0	19.7	770	37,424	15	0	37,424	343,000	30,100	18,070	7,147	88,000	80,000	0	39,396	0	0	37,200
12	0.00	2.3	2.0	20.2	515	33,320	76	3,055	36,375	336,000	32,000	0	0	74,000	80,000	0	0	0	0	0
13	0.00	2.9	2.0	21.8	0	36,365	57	0	36,365	348,000	31,600	12,122	0	103,000	80,000	0	31,648	0	0	25,300
14	0.00	2.8	2.0	16.3	1,115	40,169	8	0	40,169	345,000	30,900	12,050	0	98,000	80,000	0	60,231	0	0	48,200
15	0.00	2.1	2.0	13.3	940	35,401	98	0	35,401	348,000	27,000	18,154	8,998	65,000	80,000	0	23,480	0	0	26,000
16	0.00	2.2	2.0	19.1	240	35,460	7	0	35,460	333,000	31,900	6,023	11,693	70,000	80,000	0	47,661	0	0	47,500
17	0.00	1.8	2.0	18.3	905	36,851	98	6,833	43,684	326,000	29,700	12,045	8,996	52,000	80,000	0	38,608	0	0	38,100
18	0.00	1.6	1.9	17.6	855	38,482	53	0	38,482	326,000	30,700	0	0	44,000	72,000	0	0	0	0	0
19	0.00	2.2	1.9	20.9	940	36,894	54	2,894	39,788	341,000	33,000	0	0	70,000	72,000	0	0	0	0	0
20	0.00	2.9	1.9	16.6	0	41,848	17	0	41,848	353,000	34,800	6,027	0	103,000	72,000	0	0	0	0	0
21	0.00	3.4	1.9	19.8	2,760	41,929	54	6,023	47,952	365,000	33,700	12,054	10,522	129,000	72,000	0	46,586	0	0	45,700
22	0.00	3.1	1.9	16.2	620	40,351	50	2,892	43,243	355,000	38,500	18,073	7,119	113,000	72,000	0	43,131	0	0	40,200
23	0.10	2.9	1.9	19.4	110	35,676	14	0	35,676	355,000	32,300	12,051	3,546	103,000	72,000	0	28,779	0	0	25,900
24	0.00	3.0	1.9	16.3	720	37,957	65	2,833	40,790	343,000	30,100	18,062	3,098	108,000	72,000	0	42,031	0	0	36,100
25	0.00	2.7	1.8	17.5	535	36,169	50	3,879	40,048	343,000	28,500	0	0	93,000	64,000	0	36,815	0	0	29,500
26	0.00	2.5	1.8	18.6	335	32,607	12	0	32,607	345,000	38,200	0	0	83,000	64,000	0	0	0	0	0
27	0.00	3.1	1.8	19.7	10	32,071	46	2,890	34,961	353,000	33,500	6,026	2,537	113,000	64,000	0	28,520	0	0	24,800
28	0.00	3.3	1.8	18.7	530	31,361	40	2,556	33,917	336,000	38,700	12,050	3,507	123,000	64,000	0	44,516	0	0	38,400
29	0.00	3.2	1.8	17.5	320	32,844	49	2,956	35,800	331,000	40,800	12,045	10,895	118,000	64,000	0	55,567	0	0	53,200
30	0.00	3.0	1.8	18.5	750	36,438	16	0	36,438	302,000	42,900	18,452	10,541	108,000	64,000	0	17,761	0	0	22,600
31	0.00	3.5	1.8	18.9	460	34,954	51	327	35,281	269,000	48,100	12,034	0	140,000	64,000	0	58,601	0	0	46,900
Total	0.10				21,550	1,146,298	1,427	58,666	1,204,964		1,034,200	235,508	160,066				985,357	0	0	916,400
Daily Average		2.8	2.0	18.4	695	36,977	46	1,892	38,870	340,400				100,600	76,800	0				
Mo. Average													5,200				31,800	0	0	29,560

Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.

7. Column V, PPS-B sensor reading plus 9 inches.
8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
9. Column XI, calculated from depth in 575,000 gal. leachate tank.
10. Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
11. Column XXI includes 80% of the daily values from Columns XIV, XVIII, and XIX plus 5% of the daily values from column XVII.

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TABLE 2. FIELD DATA ENTRY FORM
MARCH 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX
Day	Reading PS-B (in.)	Section 7-8 Leak Det. (gal.)	Section 7 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	8.2	150,781	2,233,055	5,695,870	2,160,295	11.17	0	0	2,963	0.00	2.9	2.5	0	32,633	45,622	0	0	0
2	9.4	150,841	2,235,952	5,696,630	2,199,862	11.50	0	0	9,024	0.00	3.1	2.3	0	31,625	36,816	0	0	0
3	10.7	150,871	2,238,284	5,697,675	2,241,067	11.92	0	6,067	9,005	0.00	3.3	2.0	0	39,848	42,285	0	0	0
4	10.6	150,930	2,240,573	5,698,720	2,281,212	12.00	0	0	10,479	0.00	3.2	2.0	0	32,995	30,508	0	0	0
5	12.7	150,953	2,240,573	5,699,170	2,314,538	11.83	0	0	0	0.00	3.1	2.0	0	30,271	0	0	0	0
6	9.8	151,005	2,243,617	5,699,170	2,348,499	12.17	0	0	9,033	0.00	3.5	2.0	0	31,666	58,626	0	0	0
7	7.0	151,061	2,246,293	5,700,440	2,388,313	12.33	0	0	11,426	0.00	2.9	2.0	0	31,431	27,446	0	0	0
8	12.6	151,117	2,248,572	5,701,210	2,424,473	12.33	0	6,027	0	0.00	3.0	2.0	0	36,879	31,233	0	0	0
9	7.4	151,166	2,248,572	5,702,190	2,461,964	12.33	0	12,055	8,994	0.00	2.9	2.0	0	25,115	31,134	0	0	0
10	8.4	151,220	2,251,581	5,703,310	2,503,075	12.50	0	6,021	10,543	0.00	2.8	2.0	0	29,827	38,356	0	0	0
11	10.7	151,235	2,251,581	5,704,080	2,540,499	11.92	0	18,070	7,147	0.00	2.6	2.0	0	30,070	39,396	0	0	0
12	11.2	151,311	2,254,636	5,704,595	2,573,819	11.67	0	0	0	0.00	2.3	2.0	0	32,042	0	0	0	0
13	12.8	151,368	2,254,636	5,704,595	2,610,184	12.08	0	12,122	0	0.00	2.9	2.0	0	31,563	31,648	0	0	0
14	7.3	151,376	2,254,636	5,705,710	2,650,353	12.00	0	12,050	0	0.00	2.8	2.0	0	30,855	60,231	0	0	0
15	4.3	151,474	2,254,636	5,706,650	2,685,754	12.08	0	18,154	8,998	0.00	2.1	2.0	0	27,005	23,480	0	0	0
16	10.1	151,481	2,254,636	5,706,890	2,721,214	11.58	0	6,023	11,693	0.00	2.2	2.0	0	31,882	47,661	0	0	0
17	9.3	151,579	2,261,469	5,707,795	2,758,065	11.33	0	12,045	8,996	0.00	1.8	2.0	0	29,691	38,608	0	0	0
18	8.6	151,632	2,261,469	5,708,650	2,796,547	11.33	0	0	0	0.00	1.6	1.9	0	30,731	0	0	0	0
19	11.9	151,686	2,264,363	5,709,590	2,833,441	11.83	0	0	0	0.00	2.2	1.9	0	33,047	0	0	0	0
20	7.6	151,703	2,264,363	5,709,590	2,875,289	12.25	0	6,027	0	0.00	2.9	1.9	0	34,830	0	0	0	0
21	10.8	151,757	2,270,386	5,712,350	2,917,218	12.67	0	12,054	10,522	0.00	3.4	1.9	0	33,666	46,586	0	0	0
22	7.2	151,807	2,273,278	5,712,970	2,957,569	12.33	0	18,073	7,119	0.00	3.1	1.9	0	38,530	43,131	0	0	0
23	10.4	151,821	2,273,278	5,713,080	2,993,245	12.33	0	12,051	3,546	0.10	2.9	1.9	0	32,342	28,779	0	0	0
24	7.3	151,886	2,276,111	5,713,800	3,031,202	11.92	0	18,062	3,098	0.00	3.0	1.9	0	30,076	42,031	0	0	0
25	8.5	151,936	2,279,990	5,714,335	3,067,371	11.92	0	0	0	0.00	2.7	1.8	0	28,538	36,815	0	0	0
26	9.6	151,948	2,279,990	5,714,670	3,099,978	12.00	0	0	0	0.00	2.5	1.8	0	33,195	0	0	0	0
27	10.7	151,994	2,282,880	5,714,680	3,132,049	12.3	0	6,026	2,537	0.00	3.1	1.8	0	33,489	28,520	0	0	0
28	9.7	152,034	2,285,436	5,715,210	3,163,410	11.67	0	12,050	3,507	0.00	3.3	1.8	0	38,686	44,516	0	0	0
29	8.5	152,083	2,288,392	5,715,530	3,196,254	11.50	0	12,045	10,895	0.00	3.2	1.8	0	40,790	55,567	0	0	0
30	9.5	152,099	2,288,392	5,716,280	3,232,692	10.50	0	18,452	10,541	0.00	3.0	1.8	0	42,898	17,761	0	0	0
31	9.9	152,150	2,288,719	5,716,740	3,267,646	9.33	0	12,034	0	0.00	3.5	1.8	0	48,088	58,601	0	0	0
Totals							0	235,508	160,066	0.10			0	1,034,304	985,357	0	0	0

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Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
3. Column IV includes quantities from leak detection system.
4. Column XI, trace is less than 0.01 inches.
5. Columns III, IV, V, VI, VIII, IX, X, XIV, XV, XVI, XVII and XVIII are quantities from flow meters.
6. Columns XII and XIII measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Section 7 acres
Open	6	0
Intermediate	133.4	12.5
Final	23	0
Not Opened	0	0

**TABLE 3. 2006 MONTHLY LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.10	0	58,666	1,146,298	235,508	160,066	1,034,200	0	0	985,357	1,204,964	1,429,774	-224,810
April	0.00	0	0	0	0	0	0	0	0	0	0	0	0
May	0.00	0	0	0	0	0	0	0	0	0	0	0	0
June	0.00	0	0	0	0	0	0	0	0	0	0	0	0
July	0.00	0	0	0	0	0	0	0	0	0	0	0	0
August	0.00	0	0	0	0	0	0	0	0	0	0	0	0
September	0.00	0	0	0	0	0	0	0	0	0	0	0	0
October	0.00	0	0	0	0	0	0	0	0	0	0	0	0
November	0.00	0	0	0	0	0	0	0	0	0	0	0	0
December	0.00	0	0	0	0	0	0	0	0	0	0	0	0
YTD Total	4.42	0	217,295	3,356,708	662,979	247,585	3,265,900	72,591	0	2,845,026	3,574,003	4,176,464	-602,461

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Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

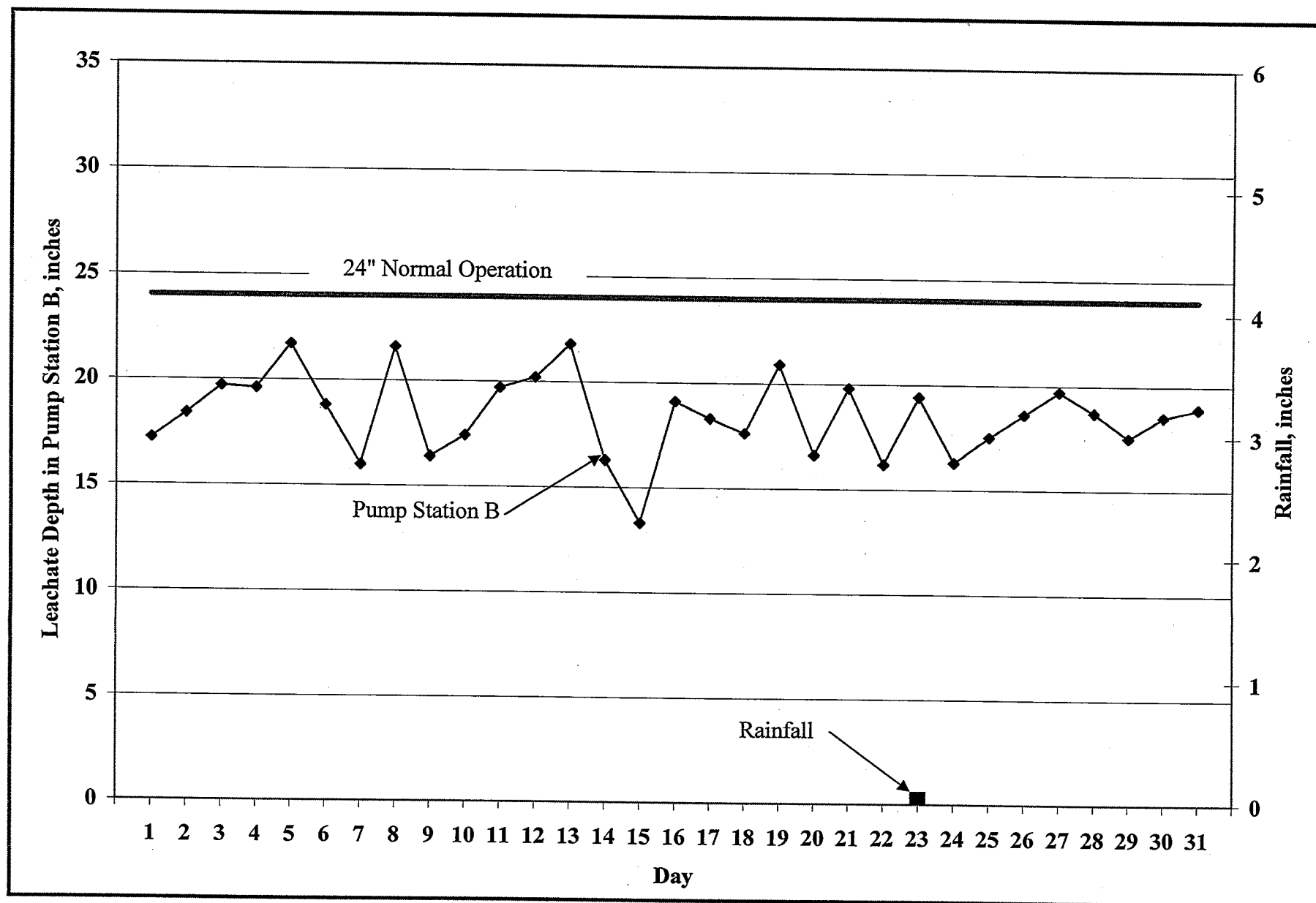


Figure 1. Leachate Levels in Pump Station B and Rainfall for March 2006.

**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) March,2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	680	0.00	8.2	38,947	3,002	58	11'2"	0	6,067	2,963	0.00
2	0.0	760	0.00	9.4	39,567	2,897	60	11'6"	0	0	9,024	0.00
3	0.0	1,045	0.00	10.7	41,205	2,332	30	11'11"	0	0	9,005	0.00
4	0.0	1,055	0.00	10.6	40,145	2,289	59	12'0"	0	0	10,479	0.00
5	0.0	450	0.00	12.7	33,326	0	23	11'10"	0	0	0	0.00
6	0.0	0	0.00	9.8	33,961	3,044	52	12'2"	0	0	9,033	0.00
7	0.0	1,270	0.00	7.0	39,814	2,676	56	12'4"	0	0	11,426	0.00
8	0.0	770	0.00	12.6	36,160	2,279	56	12'4"	0	6,027	0	0.00
9	0.0	980	0.00	7.4	37,491	0	49	12'4"	0	12,055	8,993	0.00
10	0.0	1,120	0.00	8.4	41,111	3,009	54	12'6"	0	6,021	10,543	0.00
11	0.0	770	0.00	10.7	37,424	0	15	11'11"	0	18,070	7,147	0.00
12	0.0	515	0.00	11.2	33,320	3,055	24	11'8"	0	0	0	0.00
13	0.0	0	0.00	12.8	36,365	0	57	12'1"	0	12,122	0	0.00
14	0.0	1,115	0.00	7.3	40,169	0	8	12'0"	0	12,050	0	0.00
15	0.0	940	0.00	4.3	35,401	0	98	12'1"	0	18,154	8,998	0.00
16	0.0	240	0.00	10.1	35,460	0	7	11'7"	0	6,023	11,693	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Silva

Revised Jan. 16, 2004

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LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL
(Month/Year) March, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
17	0.0	905	0.00	9.3	36,851	6,833	98	11'4"	0	12,045	8,996	0.00
18	0.0	855	0.00	8.6	38,482	0	53	11'4"	0	0	0	0.00
19	0.0	940	0.00	11.9	36,894	2,894	54	11'10"	0	0	0	0.00
20	0.0	0	0.00	7.6	41,848	0	17	12'3"	0	6,027	0	0.00
21	0.0	2,760	0.00	10.8	41,929	6,023	54	12'8"	0	12,054	10,522	0.00
22	0.0	620	0.00	7.2	40,351	2,892	50	12'4"	0	18,073	7,119	0.00
23	0.0	110	0.00	10.4	35,676	0	14	12'4"	0	12,051	3,546	0.10
24	0.0	720	0.00	7.3	37,957	2,833	65	11'11"	0	18,062	3,098	0.00
25	0.0	535	0.00	8.5	36,169	3,879	50	11'11"	0	0	0	0.00
26	0.0	335	0.00	9.6	32,607	0	12	12'0"	0	0	0	0.00
27	0.0	10	0.00	10.7	32,071	2,882	46	12'3"	0	6,026	2,537	0.00
28	0.0	530	0.00	9.7	31,361	2,556	40	11'8"	0	12,050	3,507	0.00
29	0.0	320	0.00	8.5	32,844	2,956	49	11'6"	0	12,045	10,895	0.00
30	0.0	750	0.00	9.5	36,438	0	16	10'6"	0	18,452	10,541	0.00
31	0.0	460	0.00	9.9	34,954	327	51	9'4"	0	12,034	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: *Kaymuk*

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

March, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
1	2.90	2.50	0	32,633	45,622		0	0				N
2	3.10	2.30	0	31,625	36,816		0	0				N
3	3.30	2.00	0	39,848	42,285		0	0				N
4	3.20	2.00	0	32,995	30,508		0	0				N
5	3.10	2.00	0	30,271	0		0	0				
6	3.50	2.00	0	31,666	58,626		0	0				N
7	2.90	2.00	0	31,431	27,446		0	0				N
8	3.00	2.00	0	36,879	31,233		0	0				N
9	2.90	2.00	0	25,115	31,734		0	0				N
10	2.80	2.00	0	29,827	38,356		0	0				N
11	2.60	2.00	0	30,070	39,396		0	0				N
12	2.30	2.00	0	32,042	0		0	0				
13	2.90	2.00	0	31,563	31,648		0	0				N
14	2.80	2.00	0	30,855	60,231		0	0				N
15	2.10	2.00	0	27,005	23,480		0	0				N
16	2.20	2.00	0	31,882	47,661		0	0				N

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Stuenkel

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

March, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
17	1.80	2.00	0	29,691	38,608		0	0				N
18	1.60	1.90	0	30,731	0		0	0				
19	2.20	1.90	0	33,047	0		0	0				
20	2.90	1.90	0	34,830	0		0	0				
21	3.40	1.90	0	33,666	46,586		0	0				N
22	3.10	1.90	0	38,530	43,131		0	0				N
23	2.90	1.90	0	32,342	28,779		0	0				N
24	3.00	1.90	0	30,076	42,031		0	0				N
25	2.70	1.80	0	28,538	36,815		0	0				N
26	2.50	1.80	0	33,195	0		0	0				
27	3.10	1.80	0	33,489	28,520		0	0				N
28	3.30	1.80	0	38,686	44,516		0	0				N
29	3.20	1.80	0	40,790	55,567		0	0				N
30	3.00	1.80	0	42,898	17,761		0	0				N
31	3.50	1.80	0	48,088	58,601		0	0				N

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Jones