

BOARD OF COUNTY COMMISSIONERS

Brian Blair Rose V. Ferlita Ken Hagan Al Higginbotham Jim Norman Mark Sharpe Kevin White

Office of the County Administrator Patricia G. Bean

July 10, 2007

Deputy County Administrator Wally Hill

Assistant County Administrators Kenneth C. Griffin Carl S. Harness Manus J. O' Donnell

ENVIRONMENTAL PROTECTION

JUL 12 2007

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 - 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 July 15, 2007.

The data is being submitted as separate monthly reports for April, May, and June 2007. 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.

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 Joe O'Neill, JEA Paul Schipfer, EPC

TABLE 1. APPROXIMATE TOP OF CLAY ELEVATIONS PUMP STATION B SUMP SOUTHEAST COUNTY LANDFILL

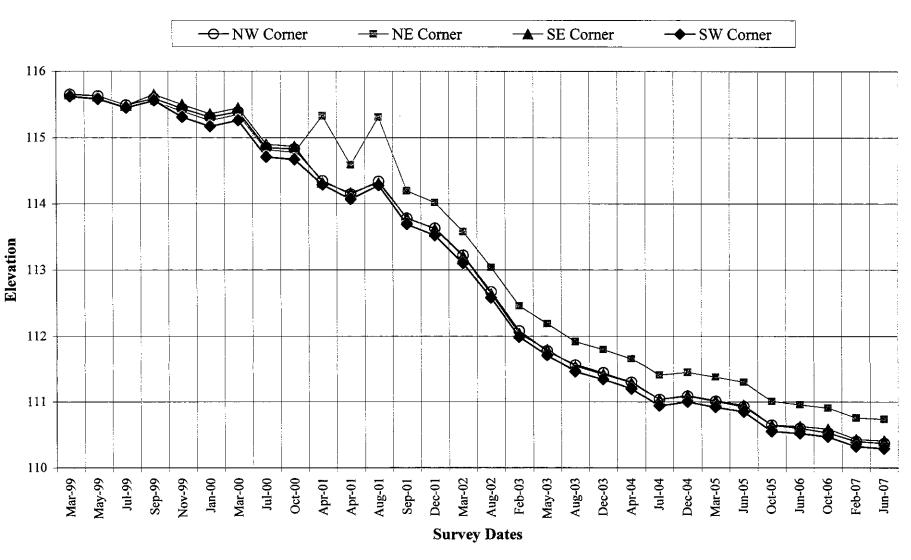
<u> </u>	T	 		
DATE	NW	NE	SE	sw
March 3, 1999	115.65	115.63	115.66	115.62
May 4, 1999	115.63	115.59	115.63	115.58
July 28, 1999	115.49	115.46	115.49	115.45
September 17, 1999 ²	115.59	115.55	115.65	115.56
November 11, 1999	115.44	115.40	115.50	115.31
January 3, 2000	115.31	115.26	115.36	115.17
March 30, 2000	115.39	115.35	115.45	115.26
July 5, 2000 ³	114.85	114.82	114.90	114.71
October 5, 2000	114.83	114.78	114.87	114.67
April 6, 2001	114.35	115.33	114,33	114.29
April 18, 2001 ²	114.15	114.59	114.17	114.07
August 8, 2001	114.34	115.31	114.32	114.28
September 19, 2001 ²	113.78	114.20	113.79	113.69
December 18, 2001	113.63	114.02	113.62	113.52
March 29, 2002	113.22	113.58	113.21	113.10
August 15, 2002 ²	112.67	113.04	112.64	112.58
February 1, 2003	112.08	112.46	112.04	111.99
May 1, 2003	111.78	112.19	111.80	111.71
September 2, 2003	111.56	111.92	111.54	111.46
December 1, 2003	111.44	111.80	111.42	111.34
April 1, 2004	111.30	111.66	111.29	111.20
July 31, 2004	111.04	111.41	111.04	110.94
December 1, 2004	111.09	111.45	111.10	111.00
March 1, 2005	111.01	111.38	111.02	110.92
June 2, 2005	110.93	111.30	110.95	110.85
October 1, 2005	110.65	111.01	110.65	110.55
February 1, 2006	110.67	111.03	110.69	110.58
June 6, 2006	110.60	110.96	110.63	110.52
October 2, 2006	110.53	110.91	110.59	110.47
February 1, 2007	110.40	110.76	110.43	110.32
June 1, 2007	110.37	110.74	110.41	110.29

leachate\calcs\ClayTop.xls; updated 6/22/07 ler

Notes:

- 1. Vertical Datum based on feet NGVD 1929.
- 2. WMI extended the rods of the settling plates.
- 3. Benchmarks used in March 30, 2000 survey were found to have settled; elevations shown for July 5, 2000 were tied into new benchmarks.

Settlement of Pump Station B Sump





REPORT OF SURVEY

NOTE: THIS REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

PICKETT & ASSOCIATES, PROJECT NO.: 12131-1

DRAWING NO: N/A

TITLE/TYPE OF SURVEY: SPECIFIC PURPOSE SURVEY

DATE OF SURVEY:06/01/07

SUBJECT: SOUTHEAST HILLSBOROUGH COUNTY LANDFILL SITE

CLIENT: WASTE MANAGEMENT, INC. OF FLORIDA

PIPE	NORTHING	EASTING	ELEVATION	DESCRIPTION
SW	1251010.3	596333.8	172.81	Top of 4" pipe
			172.52	Top of 1" pipe
SE	1251004.7	596339.5	172.94	Top of 4" pipe
			172.72	Top of 1" pipe
NE	1251014.2	596344.4	173.07	Top of 4" pipe
			172.65	Top of 1" pipe
NW	1251014.5	596336.5	172.47	Top of 4" pipe
			172.54	Top of 1" pipe

METHODOLOGY AND ACCURACY STATEMENT:

The top of the 4" pipe located at the northwest corner of the vault was used as a benchmark and surveyed with RTK GPS and was observed at least twice with a new initialization between each observation. Observation time at that point did not exceed 10 minutes. This point has an estimated horizontal positional accuracy of 0.08' or less and a vertical positional accuracy of 0.10' or less.

DATUM:

HORIZONTAL: North and the Coordinates are based on the West Zone of the Florida State Plane Coordinate System, NAD 83 1990 adjustment and are based upon provided control referenced to Hillsborough County Horizontal Control Monument LW-E (PID AG8960) and LW-D (PID AG8959).

VERTICAL: Elevations are to National Geodetic Vertical Datum of 1929 and are based upon provided control referenced to Hillsborough County Horizontal Control Monument LW-D (PID AG8959), elevation is 118.68' from Hillsborough County's Vertical Control Network.

Pickett & Associates, Inc.

NOTES:

The quarterly Specific Purpose Survey was prepared to show the existing conditions of the above ground pipes coming from the vault located at the above referenced landfill.

Eric M. Presnell, PSM

Florida Registration No. 5568

Pickett & Associates, Inc.

Florida Registration No. 364



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July 10, 2007

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13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

JUL 12 2007

SOUTHWEST DISTRICT

RE: Southeast County Landfill -June 2007 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 June 2007. In addition, the SWMD is providing the June 2007 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 June 2007 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 June 2007 was 18.8 inches.

Ms. Susan J. Pelz July 10, 2007 Page Two

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

Sincerely,

Patricia V. Berry

Landfill Services Section Manager Solid Waste Management Department

Attachments

glfs/lea0607.dep



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MEMORANDUM

DATE:

July 3, 2007

TO:

Patricia Berry, Section Manager, Solid Waste Management Department

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

SUBJECT:

Leachate Water Balance Report Forms for June 2007

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 Sections 7-8 of the Capacity Expansion for June 2007. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2007 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 4.9 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM July 3, 2007 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 effluent was not stored in Pond A.

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. On June 7, 2007 the SWMD began placing leachate in Pond B in order to re-inspect the bottom of the leachate storage tank. This month the daily average depth in Pond B was 1.9 inches.

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 18.8 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 173 gallons. A total of 5,200 gallons of leachate was pumped 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 30,539 gallons. A total of 916,160 gallons of leachate was pumped this month.

MEMORANDUM July 3, 2007 Page 3 of 5

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

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 439 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 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 7-8 (Column VIII). This month an estimated 47,470 gallons of leachate was pumped from Sections 7-8.

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 Sections 7-8. This month a total of 963,630 gallons of leachate was pumped from Phases I-VI and Sections 7-8.

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. This month an average of 212,100 gallons of leachate was stored in the tank. On June 7, 2007, the SWMD began to empty the storage tank for re-inspection.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. On November 27, 2006, the SWMD began shut-down procedures in preparation for tankage inspection. At this time the SWMD is awaiting to complete the recommended repairs to the process tank. This month leachate was not 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 1,170,278 gallons of leachate was hauled off site.

MEMORANDUM July 3, 2007 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 landfill. 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 effluent was not 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 amount 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 121,100 gallons of leachate 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 effluent was not used as spray irrigation.

MEMORANDUM July 3, 2007 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 Column 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 zero 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 963,630 gallons. Total outflow quantity from the LTRF was 1,170,278 gallons. The change in storage for the month of June decreased by 206,648 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM **JUNE 2007**

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

1	II	III	1V	V	VI	VII	Viii	īΧ	х	ΧI	XII	XIII	XIV	χv	XVI	XVII	XVIII	XIX	xx	XXI
		Depth	Depth	Estimated	Leachate	Leachate	Leachate	Leachate	Total	Leachate	Leachate					Effluent				
	. 1	in	in	Depth	Pumped	Pumped	Pumped from	Pumped to	Leachate	in	Treated	Total	Leachate	Pond	Pond	Sprayed	EMuent	Effluent	Total	
		Pond	Pond	21	to PS-B	to MLPS	Sections 7-8	MLPS from	Pumped	575K	at	Leachate	Dust Control	A	В	Pond	Irrigation	Dust Control	Effluent	Total
	Rainfall	A	В	PS-B	from TPS-6	from Phases I-VI	Leak Det	Sections 7-8	10 LTRF	Tank	LTRF	Hauled	(Sprayed)	Storage	Storage	8		(Sprayed)	Hauled	Evaporation
Day	(in.)	(ft.)	(in.)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal)	(gal)	(gal.)	(gal.)	(gal.)	(gal.)
I	1 \$5	0,0	0.0	19.8	190	30,964	15	585	31,549	420,000	0	50,360	0	0	0	0	0	0	. (0 (
2	0.40	0,0	0.0	19.9	155	36,584	14	3,350	39,934	410,000	0	32,362	0	U	0	0	0	0		0 (
3	0.00	0.0	0.0	9.9	260	33,976	18	0	33,976	415,000	0	32,178	0	0	0	0	0	0	(0 (
4	0.00	0,0	0.0	9.2	0	31,060	15	3,295	34,355	415,000	0	25,038	0	0	0	0	0	0	(0 (
5	0.00	0.0	0.0	9.6	155	32,378	25	0	32,378	420,000	0	18,616	0	0	0	Û	0	0		0 (
6	0.73	0,0	0.0	18.3	40	28,510	5	3,310	31,820	432,000	0	12,662	0	0	0	0	0	0	(0 (
7	0.40	0,0	0,0	22.1	160	28.222	13	0	28,222	441,000	0	50,918	0	0	0	0	0	0	(0 (
8	0.27	0.0	1.1	21.4	10	26,410	15	3,410	29,820	394,000	0	45,168	0	0	23,000	0	0	0	(0 (
9	0.00	0.0	1.5	20,2	210	29,434	15	0	29,434	353,000	0	32.118	0	0	44,000	0	0	0	(0 1
10	0.00	0.0	1.8	17.7	225	35,330	14	3,488	38,818	331,000	0	0	0	0	64,000	0	0	0	(0 0
- 11	0,00	0.0	2.1	22.6	0	33,270	15	3.322	36,592	331,000	0	12,062	0	0	88,000	0	0	0	(0 0
12	0.10	0.0	2.4	17.4	105	31,906	24	0	31,906	317,000	0	44,170	0	0	115,000	0	0	0	(0 (
13	0.30	0.0	2.7	19.1	220	34,260	5	3,180	37.440	274,000	U	44,374	0	0	143,000	0	0	0		0 0
14	0.00	0.0	3 0	20,9	30	34,258	25	10	34.268	233,000	υ	38,737	0.	0	172,000	0	0	0		0 (1
15	0.24	0,0	3.0	20.6	220	32,344	5	3,260	35,604	192,000	()	46,092	0	U	172,000	0	0	0.		0 0
16	0.00	0.0	3 0	21 7	380	31.134	25	3.130	34,264	185,000	υ	65,178	0	0	172,000	U	0	0	- (0 0
17	0,00	0.0	3.2	18.3	230	30,198	5	0	30,198	158,000	0	0	0	0	192,000	0	0	0	(0 0
18	0.25	0.0	3.3	194	0	24,498	14:	0	24,498	158,000	n	62,969	0	0	202,000	0	()	0	(0 0
19	0.00	0,0	3.4	19.8	70	28,048	14	3,260	31,308	120,000	()	75.824	0	0	213,000	I)	()	0	(0 (
20	0.00	0.0	3.4	193	320	28,756	13	0	28,756	70,000	0	70,022	0	0	213,000	0	()	0	(0 0
21	0.00	0.0	3 ()	17.4	130	24,342	15	2,810	27.152	60,000	0	79,129	0	0	172,000	0	0	0	(0 0
22	0,00	0.0	2.5	18 7	270	31.604	15	0	31,604	60,000	0	87,833	0	0	124,000	0	0	0	() (
23	0,00	0.0	2.0	17.4	220	14,042	24	2,995	17,037	58,000	0	30,417	0	0	80,000	()	()	υ	(0 0
24	0.00	0.0	1.7	17.2	170	548	5	. 0	548	58,000	0	0	0	0.	57,000	0	0	0	(0 0
25	0.00	0.0	2.2	21.8	0	57,704	10	2,955	60,659	58,000	0	63,447	0	0	97,000	0	()	U	() (
26	0.00	0.0	2.3	[9.0	300	32.734	13	0	32,734	0	()	43,129	0	0	106,000	0	- 0	0	(0 0
27	0.48	0,0	20	22.2	0	32,074	13	0	32,074	U	()	41,493	0	0	80,000	0	U	0	() (
28	0.18	0,0	2.0	20.9	270	32.372	14	2,050	34,422	. 0	()	30,722	0	0	80,000	. 0	()	0	(0 0
29	0,00	0,0	2.1	22.9	260	34.220	24	3,060	37,280	0	0	35.260	0	0	88,000	0	Ð	0	() (°
30	0,00	0.0	2.1	20-4	600	34,980	4	0	34,980	0	0	U	0	0	88,000	0	0	0		0 (
																				T
Total	4 90				5,200	916,160	431	47,470	963,630		0	1,170,278	0				0	0	{	0 (
Daily Average		0.0	1.9	18.8	173	30,539	14	1,582	32,121	212,100				0	121,100	0				T
Mo. Average							·					T	0				0	0		a (

- I 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
- Columns VIII & IX, Sections 7-8 leak detection pumped into leachate sump riser
 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 **JUNE 2007**

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

1	II	Ш	JV	v	VI	VII	VIII	IX	X	ΧI	XII	XIII	XIV	xv	XVI	XVI	XVIII	XIX
								·	Leachate				Effluent	Leachate	Effluent			Effluent
li l	Reading	Sections 7-8	Sections 7-8	Flow Meter	Flow Meter	Depth in	Leachate	Hauled	Dust Control		Depth in	Depth in	Sprayed	Treated	Irrigation	Effluent	Hauled	Dust Control
	PS-B	Leak Det.	Flow Meter	TPS-6	Pump Sta. A	575K Tank	Contractor	County	(Sprayed)	Rainfall	Pond A	Pond B	(Pond B)	at LTRF		Contractor	County	(Sprayed)
Day	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(ft.)	(gal.)	(gal.)	(gal.)	(in.)	(ft.)	(ft.)	(gal)	(gal.)	(gal.)	(gal.)	(gal.)	(gal)
l	10.8	7,046	12,842,265	5,850,020	8,665,368	14.58	0	50,360	0	1.55	0,0	0.0	0.0	0	0	0	0	0
2	10.9	7,060	12,845,615	5,850,175	8,701,952	14.25	0	32,362	0	0.40	0.0	0.0	0.0	0	0	0	0	0
3	0.9	7,078	12,845,615	5,850,435	8,735,928	14.42	0	32,178	0	0.00	0.0	0.0	0.0	0	0	0	0	. 0
4	0.2	7,093	12,848,910	5,850,435	8,766,988	14.42	0	25,038	0	0.00	0.0	0.0	0.0	0	0	0	0	0
5	0.6	7,118	12,848,910	5,850,590	8,799,366	14.58	0	18,616	0	0.00	0.0	0.0	0.0	0	0	0	0	0
6	9.3	7,123	12,852,220	5,850,630	8,827,876	15.00	0	12,662	0	0.73	0.0	0.0	0.0	0	0	0	0	0
7	13.1	7,136	12,852,220	5,850,790	8,856,098	15.33	0	50,918	0	0.40	0.0	0.0	0.0	0	0	0	0	0
8	12.4	7,151	12,855,630	5,850,800	8,882,508	13.67	0	45,168	0	0.27	0.0	1.1	0.0	0	0	0	0	0
9	11.2	7,166	12,855,630	5,851,010	8,911,942	12.25	0	32,118	0	0.00	0.0	1.5	0.0	0	0	0	0	0
10	8.7	7,180	12,859,118	5,851,235	8,947,272	11.50	0	0	0	0.00	0.0	1.8	0.0	. 0	0	0	0	0
11	13.6	7,195	12,862,440	5,851,235	8,980,542	11.50	0	12,062	0	0.00	0.0	2.1	0.0	0	0	0	0	0
12	8.4	7,219	12,862,440	5,851,340	9,012,448	11.00	0	44,170	0	0.10	0.0	2.4	0.0	0	0	0	0	0
13	10.1	7,224	12,865,620	5,851,560	9,046,708	9.50	0	44,374	0	0.30	0.0	2.7	0.0	0	0	0	0	0
14	11.9	7,249	12,865,630	5,851,590	9,080,966	8.08	13,871	24,866	0	0.00	0.0	3.0	0.0	0	0	0	0	0
. 15	11,6	7,254	12,868,890	5,851,810	9,113,310	6.67	28,042	18,050	0	0.24	0.0	3.0	0.0	0	0	0	0	0
16	12.7	7,279	12,872,020	5,852,190	9,144,444	6.42	35,070	30,108	0	0.00	0.0	3.0	0.0	0	0	0	00	0
17	9.3	7,284	12,872,020	5,852,420	9,174,642	5,50	0	0	0	0.00	0.0	3.2	0.0	0	0	0	0	0
18	10.4	7,298	12,872,020	5,852.420	9,199,140	5.50	20,851	42,118	0	0.25	0,0	3.3	0.0	0	0	0	0	0
19	10.8	7,312	12,875,280	5,852,490	9,227,188	4.17	27,680	48,144	0	0.00	0.0	3.4	0.0	0	0	0	0	0
20	10.3	7,325	12,875,280	5,852,810	9,255,944	2.42	27,916	42,106	0	0.00	0.0	3.4	0.0	0	0	0	0	0
21	8.4	7,340	12,878,090	5,852,940	9,280,286	2.08	37,044	42,085	0	0.00	0.0	3.0	0.0	0	0	0	0	0
22	9.7	7,355	12,878,090	5,853,210	9,311,890	2.08	51,695	36,138	0	0.00	0.0	2.5	0.0	0	0	0	0	0
23	8.4	7,379	12,881,085	5,853,430	9,325,932	2.00	0	30,417	0	0.00	0,0	2.0	0.0	0	0	0	0	0
24	8,2	7,384	12,881,085	5,853,600	9,326,480	2.00	0	0	0	0.00	0.0	1.7	0.0	0	0	0	0	0
25	12.8	7,394	12,884,040	5,853,600	9,384,184	2.00	51,435	12,012	0	0.00	0.0	2.2	0.0	0	0	0	0	0
26	10.0	7,407	12,884,040	5,853,900	9,416,918	0.00	36,133	6,996	0	0.00	0.0	2.3	0.0	0	0	0	0	0
27	13.2	7,420	12,884,040	5,853,900	9,448,992	0.00	29,470	12,023	0	0.48	0.0	2.0	0.0	0	0	0	0	0
28	11.9	7,434	12,886,090	5,854,170	9,481,364	0.00	30,722	0	0	0.18	0.0	2.0	0.0	0	0	0	0	0
29	13.9	7,458	12,889,150	5,854,430	9,515,584	0.00	35,260	0	0	0.00	0.0	2.1	0.0	0	0	0	0	0
30	11.4	7,462	12,889,150	5,855,030	9,550,564	0.00	0	0	0	0.00	0.0	2.1	0.0	0	0	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.

Type of Cover	Phases I-VI	Sections 7-8
Type of Cover	acres	acres
Open	6	0
Intermediate	133.4	19,3
Final	23	0
Not Opened	0	0

- 4. Column XI, trace is less than 0.01 inches.
- 6. Columns XII and XIII measured from staff gages in each pond.

Revised August 1, 2005 Form #6 - Leachate Balance Data

TABLE 3. 2007 MONTHLY LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA

		Le	achate Arriving at L	TRF	Lea	chate Leaving LT	'RF		Effluent Disposal		Inflo	w / Outflow For I	TRF
		Leachate Hauled	Leachate	Leachate	Total Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow	Change
	Rainfall	to LTRF from	from Sections 7-8	from Phases I-VI	Hauled	Dust Control	Treated at	Effluent	Dust Control	Irrigation	to	from	in
		HHLF/TRLF	Pumped to LTRF	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	Hauled	(Sprayed)		LTRF	LTRF	Storage ³
Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
January	3.02	0	82,740	1,042,128	1,161,110	0	0	0	0	0	1,124,868	1,161,110	-36,242
February	2.50	0	80,265	931,149	1,205,428	0	0	0	О	0	1,011,414	1,205,428	-194,014
March	0.77	0	42,020	967,447	875,037	0	0	0	0-	0	1,009,467	875,037	134,430
April	3.95	0	80,340	935,221	933,917	0	0	0	0	0	1,015,561	933,917	81,644
May	0.54	0	37,270	947,356	932,067	3,992	0	0	0	0	984,626	936,059	48,567
June	4.90	0	47,470	916,160	1,170,278	0	0	0	0	0	963,630	1,170,278	-206,648
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	15.68	0	370,105	5,739,461	6,277,837	3,992	0	0	0	0	6,109,566	6,281,829	-172,263

projects\balance\2007\2007-summary xls (Revised by ler 7/3/07)

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.

Revised August 1, 2005

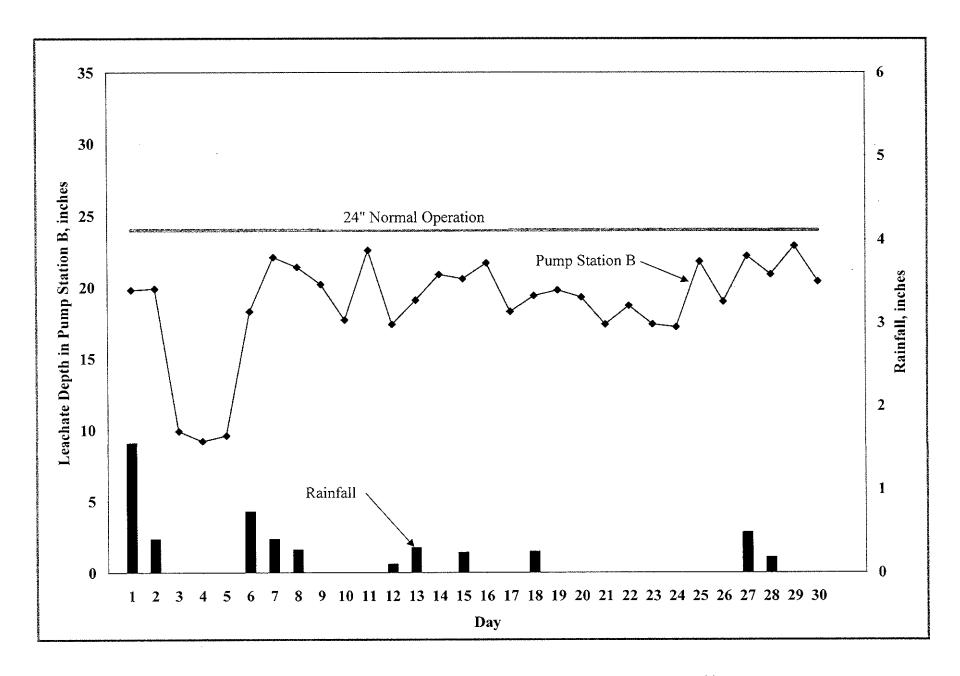


Figure 1. Leachate Levels in Pump Station B and Rainfall for June 2007.

LEACHATE DEPTH/SUMMARY DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)

June,2007

	TP	S-6				Sectio	ns 7-8		Leachate	Hauled	Leachate	
Date	Depth (inches)	Flowmeter (gallons)	Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Flowmeter (gallons)	Leak Detection (gallons)	Depth in 575k Tank (feet)	Contractor (gallons)	County (gallons)	Dust Control/ Evap. (gallons)	Rainfall (inches)
1	0.0		0.00	10.8	\ <u>\</u>		15	` '		50,360		1.55
2	0.0		0.00	10.9			14		0		0	0.40
3	0.0		0.00	0.9	33,976	0.000	18	14'5"	0	32,178	·	0.00
4	0.0		0.00	0.2	31,060	3,295	15	14'5"	0	25,038		0.00
5	0.0		0.00	0.6			25	14'7'	0			0.00
6	0.0			9.3	1		5	-	0			0.73
7	0.0			13.1	28,222	0,510	13		0			0.40
8	0.0			12.4			15		0			0.27
9	0.0	_		11.2		ï	15		0	32,118		0.00
10	0.0		1.80		35,330		14		0	0	1	0.00
11	0.0		2.10	13.6			15	i e	0	12,062	0	0.00
12	0.0		2.40		i		24		0	44,170		0.10
13	0.0	· · · · · ·			34,260		5	9'6"	0		1	0.30
14	0.0		i			i	25		13,871	24,866		0.00
15	0.0			11.6	1			6'8"		18,050		0.24
16	0.0	· · · · · ·						6'5"	l .	30,108	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:				 <u> </u>	
			<u></u>	 	
Prepared by:	Carmon C.S	Laur /		-	· · · · ·

LEACHATE DEPTH/SUMMARY DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	June,2007

	TP	S-6				Sectio	ns 7-8		Leachate	Hauled	Leachate	
	Depth	Flowmeter	Depth in Pond B	Pump ² Station B	PS-A Flow Meter	Flowmeter	Leak Detection	Depth in 575k Tank	Contractor	County	Dust Control/ Evap.	Rainfall
Date	(inches)	(gallons)	(feet)	(inches)	(gallons)	(gallons)	(gallons)	(feet)	(gallons)	(gallons)	(gallons)	(inches)
17	0.0	230	3.20	9.3	30,198	0	5	5'6"	0	0	0	0.00
18	0.0	0	3.30	10.4	24,498	0	14	5'6"	20,851	42,118	0	0.25
19	0.0	70	3.40	10.8	27,768	3,260	14	4'2"	27,680	48,144	0	0.00
20	0.0	320	3.40	10.3	28,756	0	13	2'5"	27,916	42,106	0	0.00
21	0.0	130	3.00	8.4	24,342	2,710	15	2'1"	37,044	42,085	0	0.00
22	0.0	270	2.50	9.7	31,604	0	15	2'1"	51,695	36,138	0	0.00
23	0.0	220	2.00	8.4	14,042	2,995	24	2'0"	0	30,417	0	0.00
24	0.0	170	1.70	8.2	548	0	5	2'0"	0	0	0	0.00
25	0.0	0	2.20	12.8	57,704	2,955	10	2'0"	51,435	12,012	0	0.00
26	0.0	300	2.30	10.0	32,734	0	13	0.00	36,133	6,996	0	0.00
27	0.0	0	2.00	13.2	32,074	0	13	0.00	29,470	12,023	0	0.48
28	0.0	270	2.00	11.9	32,372	2,050	14	0.00	30,722	0	0	0.18
29	0.0	260	2.10	13.9	34,220	3,060	24	0.00	35,260	0	0	0.00
30	0.0	600	2.10	11.4	34,980	0	4	0.00	0	0	0	0.00
		1										

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:	Rumanler Langer		

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	June,2007

	Depth in	Depth in	Pond B				Effluent ⁴					
	Pond A ¹	Pond B ²	Leak	Leachate	Spray	Evaporated	Hau	ıled	Dust Control/	Effluent	Time at	Runoff to
			Detection ³	Treated	Irrigated	at Pond B	Contractor	County	Evap.	Stored	End of	Retention
Date	(feet)	(feet)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	Rainfall	Area (Y/N)
1	0.00	0.00	0	0	0	0	0	0				
2	0.00	0.00	0	0	0	0	0	0				
3	0.00	0.00	0	0	0	0	0	0				
4	0.00	0.00	0	0	0	0	0	0				
5	0.00		0	0	0	0	0	0				
6	0.00		1 "	0	0	0	0	0				
7	0.00		0	0	0	0	0	0				
8	0.00	0.00	0	0	0	0	0	0				
9	0.00	T."	0	0	0	0	0	0				
10	0.00	0.00	0	0	0	0	0	0				
11	0.00		0	0	0	0	0	0				
12	0.00			0	0	0	0	0				
13	0.00			0	0	0	0	0				
14	0.00		· · · · ·	0	0	0	0	0				
15	0.00	†		0	0	0	0	0				
16	0.00		1	0	0	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 ves. contact Supervisor immediately. Complete Evaluation Report Form.

	(4) If yes, contact supervisor infinediately. Complete Evaluation Report Forms
Comments:	
	7
Prepared by:	Kadman Contraver

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	June,2007

	Depth in	Depth in	Pond B				Effluent ⁴					
	Pond A	Pond B ²	Leak	Leachate	Spray	Evaporated	Hau	led	Dust Control/	Effluent	Time at	Runoff to
			Detection ³	Treated	Irrigated	at Pond B	Contractor	County	Evap.	Stored	End of	Retention
Date	(feet)	(feet)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	Rainfall	Area (Y/N)
17	0.00	0.00	0	0	0		0	0				
18	0.00	0.00	0	0	0		0	0				
19	0.00	0.00	0	0	0		_0	0				
20	0.00	0.00	0	0	0		0	0				
21	0.00	0.00	0	0	0		0	0				
22	0.00	0.00	0	0	0		0	0				
23	0.00	0.00	0	0	0		0	0				
24	0.00	0.00	0	0	0		0	0				
25	0.00	0.00	0	0	0		0	0				
26	0.00	0.00	0	0	0		0	0				
27	0.00	0.00	0	0	0		0	0				
28	0.00	0.00	0	0	0		0	0				
29	0.00	0.00	0	0	0		0	0]		
30	0.00	0.00	0	0	0		0	0				
	Ī											

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 St	are)	 <u> </u>		



BOARD OF COUNTY COMMISSIONERS

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June 22, 2007

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 -May 2007 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 May 2007. In addition, the SWMD is providing the May 2007 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 May 2007 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 May 2007 was 20 inches.

Ms. Susan J. Pelz June 22, 2007 Page Two

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

Sincerely,

Patricia V. Berry

Landfill Services Section Manager Solid Waste Management Department

Attachments

glfs/lea0507.dep



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Iim Norman Mark Sharpe Kevin White Office of the County Administrator Patricia G. Bean

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MEMORANDUM

DATE:

June 20, 2007

TO:

Patricia Berry, Section Manager, Solid Waste Management Department

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

SUBJECT:

Leachate Water Balance Report Forms for May 2007

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 Sections 7-8 of the Capacity Expansion for May 2007. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2007 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 0.54 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM June 20, 2007 Page 2 of 5

1

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 effluent was not stored in Pond A.

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 effluent/leachate was not stored in Pond B.

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 20 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 207 gallons. A total of 6,410 gallons of leachate was pumped 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 30,560 gallons. A total of 947,356 gallons of leachate was pumped this month.

MEMORANDUM June 20, 2007 Page 3 of 5

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

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 1,332 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 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 7-8 (Column VIII). This month an estimated 32,270 gallons of leachate was pumped from Sections 7-8.

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 Sections 7-8. This month a total of 984,626 gallons of leachate was pumped from Phases I-VI and Sections 7-8.

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. This month an average of 428,400 gallons of leachate was stored in the tank.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. On November 27, 2006, the SWMD began shut-down procedures in preparation for tankage inspection. At this time the SWMD is awaiting to complete the recommended repairs to the process tank. This month leachate was not 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 932,067 gallons of leachate was hauled off site.

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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 landfill. This month 3,992 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 effluent was not 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 amount 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 effluent/leachate was not 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 effluent was not used as spray irrigation.

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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 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 3,200 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 984,626 gallons. Total outflow quantity from the LTRF was 936,059 gallons. The change in storage for the month of May increased by 48,567 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM MAY 2007 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

	Щ	Ш	IV	v	<u>Vī</u>	vii	VIII	. IX	x	ХI	XII	7711	w.m.							
		Depth	Depth	Estimated	Leachate	Leachate	Leachate	Leachate	Total	Leachate	Leachate	XIII	XIV	xv	XVI	XVII	XVIII	XIX	XX	XXI
	1 1	in	in	Depth	Pumped	Pumped	Pumped from	Pumped	Leachate	in	Treated	Total	Leachate	D1	١	Effluent				
		Pond	Pond	at	to PS-B	to MLPS	Sections 7-8	to MLPS from	Pumped	575K	Bt	Leachate	Dust Control	Pond	Pond	Sprayed	Effluent	Effluent	Total	
	Rainfall	Ä	В	PS-B	from TPS-6	from Phases I-VI	Leak Det	Sections 7-8	to LTRF	Tank	LTRF	Hauled		A	В	Pond _	brigation	Dust Control	Effluent	Tota
Day	(in.)	(fl.)	(in.)	(in.)	(gal.)	(gal.)	(gal.)	(gai.)	(gal.)	(gai.)	(gal.)	(gal.)	(Sprayed) (gal.)	Storage	Storage	В		(Sprayed)	Hauled	Evapor
1	0.00	0.0	0,0	20.9	350	31,340	34		31,340	374,000	(<u>ga.</u> ,	37,561		(gal.) 0	(gal)	(gal)	(gal.)	(gal.)	(gal.)	(gal
2	0.00	0,0	0.0	17.0	340	30,662	65	3,110	33,772	367,000	0:	24,949		0				0		`
3	0.00	0.0	0.0	21.6	300	33,260	24	10		379,000		24,946				0	0	0	0	<u> </u>
4	0.00	0.0	0,0	18.1	300	32,669	68	3,090	35,759	384,000		31,586		- 0	0	0	0	0		-
.5	0.42	0.0	0,0	17.3	280	31,703	72	0	31,703	379,000		25,695				0	0		0	`\
6	0.00	0,0	0,0	22,4	225	30,591	88	2,920	33,511	401,000		23,093	 	0	. 0	0	0			اد
7	0.00	0,0	0,0	22.0	0	31,470	101	0	31,470	434,000		18,508			- 0	- 0	. 0		0	<u> </u>
8	0.00	0.0	0,0	18.3	235	29,677	56	2,690	32,367	446,000		38,610		0.	0	0			0	<u> </u>
9	0,00	0.0	0.0	19.0	230	35,696	50	0,000	35,696	441,000		18,138	0	<u>_</u>	0	0	0		0)
10	0.00	0.0	0.0	19.4	280	34,965	23	2,760	37,725	461,000				0	0	0	0		0)
11	0.00	0,0	0,0	19.3	300	32,803	21		32,803	437,000		49,934		. 0	0		0	0:	0	اد
12	0.00	0.0	0,0	20.0	310	33,470	19		33,470	427,000		43,931	0	0	0		0		0	>
13	0.00	0.0	0.0	21.5	160	30,351	29	3,220	33,571		0	25,810	0	0	0		0	0	0)
14	0.00	0,0	0,0	19,4	0	29,188	13	3,220	29,188	439,000	0	0	- 0	0	0	0	0	0	0	7
15	0.00	0.0	0.0	21.0	520	27,181	37	0	27,181	468,000	0	37,634	0	0	0	0	0	0	. 0	<u> </u>
16	0.12	0.0	0.0	22.1	0	27,572	13	3,260	30,832	446,000	- 0	50,000	0	0	. 0	0	0	0	0	3
17	0.00	0.0	0.0	23.3	320	32,721	29	3,200	30,832	432,000	0	38,747	0	0	0	0	0	0	. 0)
18	0.00	0,0	0.0	23.9	30	33,088	19	3,130	36,218	439,000		38,083	0		0	- 0	0	0	0	4
19	0.00	0.0	0.0	23.5	110	31,611	30	3,130	31,611			38,094	0	. 0		0	0	0	0)
20	0.00	0.0	0.0	18.8	195	27,823	35	0	27,823	415,000 422,000	0	25,734	0	0	<u> </u>	0	- 0	0	0	1
21	0.00	0.0	0.0	18.6	0	28,774	39	3,180	31,954	449,000	0	- 0	0	0	0	0	0	0	0	,
22	0.00	0,0	0,0	19.9	115	29,744	50	100	29,844		0	38,452	0	0		0	. 0	0	0	<u> </u>
23	0.00	0.0	0,0	17.9	90	27,737	40	0	27,737	439,000	0	6,453	0	0	0	0	0	0	0	4
24	0.00	0.0	0.0	19.1	310	26,990	30.	3,180		461,000	0	38,057	0	0	- 0	이	0	0	0	4
25	0.00	0.0	0,0	22,1	135	29,140	36	3,180	30,170	441,000	0	44,072	0	0	0	. 0	0	0	0	,
26	0.00	0.0	0.0	19.6	340	26,556	72		29,140	422,000	0	44,307	0	0	0	0	0	0	. 0	1
27	0.00	0.0	0.0	19.0	85	30,936	13	3,230	26,556	437,000	- 0	32,348	0	0	0	0	0	0	0	
28	0.00	0.0	0.0	16.9	0	30,456	55	100	34,166 30,556	430,000	0	0	0	0	. 0	0	0	0	0	4
29	0.00	0.0	0.0	20.7	560	29,300	18	- 100		449,000	0	32,408	0	0	0	0	0	0	0	1
30	0.00	0.0	0.0	19.3	- 0	29,538	135	3,290	29,300	441,000	0	45,022	. 0	. 0	0	. 0	0	0	0	_
31	0.00	0.0	0.0	19.0	290	30,344	13.5		32,828	453,000	0]	44,650	3,992	0	0	0	0	0	0) :
			-			30,344			30,344	439,000	0	38,338	. 0	0	0	0	0	0	0	_
1	0.54		 j		6,410	947,356	1,332	22.550	004.65											\Box
y Average	- 1	0,0	0,0	20,0	207	30,560	1,332	37,270	984,626		0	932,067	3,992				0	0	0	
Average		-			2011	30,3601	43	1,202	31,762	428,400				0	0	0				
						<u></u>							100				0	0		1

- 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.

- Column V, PYS-B sensor reasons puts 9 incness.
 Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
 Column XI, calculated from depth in 575,000 gal. leachate tank.
 Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
 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 MAY 2007

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	П	III	ĪV	V	vi	VII	VIII	IX	_ x	XI	XII	XIII	XIV	χv	XVI	XVI	XVIII	XIX
		}							Leachate				Effluent	Leachate	Effluent			Effluent
	Reading	Sections 7-8	Sections 7-8	Flow Meter	Flow Meter	Depth in	Leachate	Hauled	Dust Control		Depth in	Depth in	Sprayed	Treated	Irrigation	Effluent	Hauled	Dust Control
	PS-B	Leak Det.	Flow Meter	TPS-6	Pump Sta. A	575K Tank	Contractor	County	(Sprayed)	Rainfall	Pond A	Pond B	(Pond B)	at LTRF	*****	Contractor	County	(Sprayed)
Day	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(ft.)	(gal.)	(gal.)	(gal.)	(in.)	(ft.)	(ft.)	(gal)	(gal.)	(gal.)	(gal.)	(gal.)	(gal)
1	11.9	5,733	12,804,410	5,843,770	7,718,388	13.00	0	37,561	0	0.00	0.0	0.0	0.0	0	0	0	0	V-40/
. 2	8.0	5,798	12,807,520	5,844,110	7,749,050	12.75	0	24,949	0	0.00	0.0	0.0	0.0	0	0	ő	0	
3	12.6	5,822	12,807,530	5,844,410	7,782,310	13.17	0	24,946	0	0.00	0.0	0.0	0.0	0	Ö	0	0	l ő l
4	9.1	5,890	12,810,620	5,844,710	7,814,979	13,33	0	31,586	0	0,00	0.0	0.0	0.0	0	0	ō	0	
5	8.3	5,962	12,810,620	5,844,990	7,846,682	13.17	0	25,695	0	0.42	0.0	0.0	0.0	0	0	0	0	 0
6	13.4	6,050	12,813,540	5,845,215	7,877,273	13.92	0	0	0	0.00	0.0	0.0	0.0	0	0	0	0	0 -
7	13.0	6,151	12,813,540	5,845,215	7,908,743	15.08	0	18,508	0	0.00	0.0	0.0	0.0	0	0	0	0	0
8	9.3	6,207	12,816,230	5,845,450	7,938,420	15.50	0	38,610	0	0.00	0.0	0.0	0.0	0	0	0	0	0
9	10.0	6,257	12,816,230	5,845,680	7,974,116	15.33	0	18,138	0	0.00	0.0	0.0	0.0	0	0	0	0	0
10	10.4	6,280	12,818,990	5,845,960	8,009,081	16.00	0	49,934	0	0.00	0.0	0.0	0.0	0	0	0	0	
11	10,3	6,301	12,818,990	5,846,260	8,041,884	15.17	0	43,931	0	0.00	0.0	0.0	0.0	0	0	0	0	
12	11.0	6,320	12,818,990	5,846,570	8,075,354	14.83	0	25,810	0	0.00	0.0	0.0	0.0	0	0	0	0	0
13	12.5	6,349	12,822,210	5,846,730	8,105,705	15.25	0	0	0	0.00	0.0	0.0	0.0	0	0	0	0	0
14	10.4	6,362	12,822,210	5,846,730	8,134,893	16.25	0	37,634	0	0.00	0.0	0.0	0.0	0	0	0	0	0
15	12,0	6,399	12,822,210	5,847,250	8,162,074	15.50	0	50,000	0	0.00	0.0	0.0	0.0	0	0	0	0	0
16	13.1	6,412	12,825,470	5,847,250	8,189,646	15.00	0	38,747	. 0	0.12	0.0	0.0	0.0	0	0	0	0	0
17	14.3	6,441	12,825,470	5,847,570	8,222,367	14.83	0	38,083	0	0.00	0.0	0.0	0.0	0	0	0	0	0
18	14.9	6,460	12,828,600	5,847,600	8,255,455	15.25	0	38,094	0	0.00	0.0	0.0	0.0	0	0	0	0	0 1
19	14.5	6,490	12,828,600	5,847,710	8,287,066	14.42	0	25,734	0_	0,00	0.0	0.0	0,0	0	0	0	0	0
20	9,8	6,525	12,828,600	5,847,905	8,314,889	14.67	0	0	0	0.00	0.0	0,0	0.0	0	0	0	0	0
21	9.6	6,564	12,831,780	5,847,905	8,343,663	15.58	0	38,452	0	0.00	0.0	0.0	0.0	0	0	0	0	0
22	10.9	6,614	12,831,880	5,848,020	8,373,407	15.25	0	6,453	0	0.00	0.0	0.0	0.0	0	0	0	0	0
23	8.9	6,654	12,831,880	5,848,110	8,401,144	16.00	0	38,057	0	0.00	0.0	0.0	0.0	0	0	0	0	0
24	10.1	6,684	12,835,060	5,848,420	8,428,134	15.33	0	44,072	0	0.00	0.0	0.0	0.0	0	0	0	0	0
25	13.1	6,720	12,835,060	5,848,555	8,457,274	14.67	0	44,307	0	0.00	0.0	0.0	0,0	0	0	0	0	0
26	10.6	6,792	12,835,060	5,848,895	8,483,830	15.17	0	32,348	0	0.00	0.0	0,0	0.0	0	0	0	0	0
27	10.0	6,805	12,838,290	5,848,980	8,514,766	14.92	0	0	0	0.00	0.0	0.0	0,0	0	0	0	0	0
28	7.9	6,860	12,838,390	5,848,980	8,545,222	15.58	0	32,408	0	0.00	. 0.0	0.0	0.0	0	0	0	0	0
29	11.7	6,878	12,838,390	5,849,540	8,574,522	15.33	0	45,022	0	0,00	0.0	0.0	0.0	0	0	0	0	1 0
30	10.3	7,013	12,841,680	5,849,540	8,604,060	15.75	0	44,650	3,992	0.00	0.0	0.0	0.0	0	0	0	0	0
31	10.0	7,031	12,841,680	5,849,830	8,634,404	15.25	0	38,338	0	0.00	0.0	0.0	0.0	0	0	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.

Type of Cover	Phases I-VI	Sections 7-8
	acres	acres
Open	6	0
Intermediate	133,4	19.3
Final	23	0
Not Opened	0	0

- 4. Column XI, trace is less than 0.01 inches.
- 6. Columns XII and XIII measured from staff gages in each pond.

TABLE 3. 2007 MONTHLY LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA

		Le	achate Arriving at L	TRF	Lea	chate Leaving LT	RF		Effluent Disposal		Inflow / Outflow For LTRF			
•		Leachate Hauled	Leachate	Leachate	Total Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow	Change	
	Rainfall	to LTRF from	from Sections 7-8	from Phases I-VI	Hauled	Dust Control	Treated at	Effluent	Dust Control	Irrigation	to	from	in	
1		HHLF/TRLF	Pumped to LTRF	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	Hauled	(Sprayed)		LTRF	LTRF	Storage ³	
Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	
January	3.02	0	82,740	1,042,128	1,161,110	0	0	0	0	0	1,124,868	1,161,110		
February	2.50	0	80,265	931,149	1,205,428	0	0	0	0	0	1,011,414	1,205,428	-194,014	
March	0.77	0	42,020	967,447	875,037	0	. 0	. 0	0	0	1,009,467	875,037	134,430	
April	3.95	0	80,340	935,221	933,917	0	0	0	0	0	1,015,561	933,917	81,644	
May	0.54	0	37,270	947,356	932,067	3,992	0	0	0	0	984,626	936,059	48,567	
June	0.00	0	. 0	0	0	0	0	0	0	0	o	0	0	
July	0.00	0	. 0	0	0	0	0	0	0	0	0	0	0	
August	0.00	0	0	. 0.	0	o	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	10.78	0	322,635	4,823,301	5,107,559	3,992	0	0	0	0	5,145,936	5,111,551	34,385	

Note:

projects/balance/2007/2007-summary.xls (Revised by ler 6/11/07)

- 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.

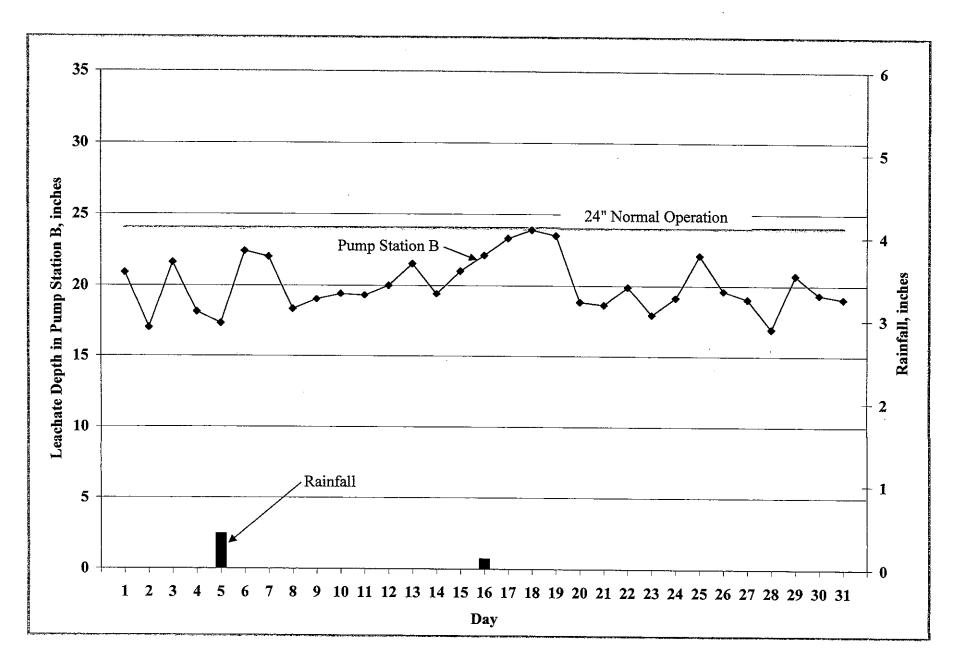


Figure 1. Leachate Levels in Pump Station B and Rainfall for May 2007.

LEACHATE DEPTH/SUMMARY DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	May,2007	

	TP	S-6				Sectio	ns 7-8		Leachate	Hauled	Leachate	
	Depth	Flowmeter	Depth ¹ in Pond B	Pump ² Station B	PS-A Flow Meter	Flowmeter	Leak Detection	Depth in 575k Tank	Contractor	County	Dust Control/ Evap.	Rainfall
Date	(inches)	(gallons)	(feet)	(inches)	(gallons)	(gallons)	(gallons)	(feet)	(gallons)	(gallons)	(gallons)	(inches)
1	0.0	350	0.00	11.9	31,340	0	34	13'0"	. 0	37,561	0	0.00
2	0.0	340	0.00	8.0	30,662	3,110	65	12'9"	0	24,949	0	0.00
3	0.0	300	0.00	12.6	33,260	10	24	13'2"	0	24,946	0	0.00
4	0.0	300	0.00	9.1	32,669	3,090	68	13'4"	0	32,126	0	0.00
5	0.0	280	0.00	8.3	31,703	0	72	13'2"	0	25,695	0	0.42
6	0.0	225	0.00	13.4	30,591	2,920	88	13'11"	0	0	0	0.00
7	0.0	0	0.00	13.0	31,470	0	100	15'1"	0	18,508	0	0.00
8	0.0	235	0.00	9.3	29,677	2,690	56	15'6"	0	38,610	0	0.00
9	0.0	230	0.00	10.0	35,696	0	50	15'4"	0	18,138	0	0.00
10	0.0	280	0.00	10.4	34,965	2,760	23	16'0"	0	49,934	0	0.00
11	0.0	300	0.00	10.3	32,803	0	21	15'2"	0	43,931	0	0.00
12	0.0	310	0.00	11.0	33,470	0	19	14'10"	0	25,810	0	0.00
13	0.0	160	0.00	12.5	30,351	3,220	29	15'3"	0	0	0	0.00
14	0.0	0	0.00	10.4	29,188	0	13	16'3"	0	37,634	0	0.00
15	0.0	520	0.00	12.0	27,181	0	37	15'6"	0	50,000	0	0.00
16	0.0	0	0.00	13.1	27,572	3,260	13	15'0"	0	38,747	0	0.12

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:					••	 			
	1)				 	
	//	11/	//						

LEACHATE DEPTH/SUMMARY DATA FORM SOUTHEAST COUNTY LANDFILL

May,2007

	TPS-6		TPS-6					Sectio	ns 7-8		Leachate	Hauled	Leachate	
	Depth	Flowmeter	Depth ¹ in Pond B	Pump ² Station B	PS-A Flow Meter	Flowmeter	Leak Detection	Depth in 575k Tank	Contractor	County	Dust Control/ Evap.	Rainfall		
Date	(inches)	(gallons)	(feet)	_ (inches)	(gallons)	(gallons)	(gallons)	(feet)	(gallons)	(gallons)	(gallons)	(inches)		
17	0.0	320	0.00	14.3	32,721	0	29	14'10"	0	38,083	0	0.00		
18	0.0	30	0.00	14.9	33,088	3,130	19	15'3"	0	38,094	0	0.00		
19	0.0	110	0.00	14.5	31,611	0	30	14'5"	0	25,734	0	0.00		
20	0.0	195	0.00	9.8	27,823	0	35	14'8"	0	0	0	0.00		
21	0.0	0	0.00	9.6	28,774	3,180	39	15'7"	0	38,452	0	0.00		
22	0.0	100	0.00	10.9	29,744	160	50	15'3"	0	6,453	0	0.00		
23	0.0	90	0.00	0.0	27,737	0	40	16'0"	0	38,057	0	0.00		
24	0.0	310	0.00	0.0	26,990	3,180	30	15'4"	0	44,072	0	0.00		
25	0.0	135	0.00	13.1	29,140	0	36	14'8"	0	44,307	0	0.00		
26	0.0	345	0.00	10.6	26,556	0	72	15'2"	. 0	32,348	0	0.00		
27	0.0	. 85	0.00	10.0	30,936	3,230	13	14'11"	0	0	0	0.00		
28	0.0	0	0.00	7.9	30,456	100	55	15'7"	0	32,408	0	0.00		
29	0.0	570	0.00	11.7	29,300	0	18	15'4"	0	45,022	0	0.00		
30	0.0	0	0.00	10.3	29,538	3,290	135	15'9"	0	44,650	3,992	0.00		
31	0.0	290	0.00	10.0	30,344	0	18	15'3"	0	38,338	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 Fraves	

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	May,2007

	Depth in	Depth in	Pond B		-	Treated Effluent						Effluent ⁴
1	Pond A ¹	Pond B ²	Leak	Leachate	Spray	Evaporated	Hau	ıled	Dust Control/	Effluent	Time at	Runoff to
			Detection ³	Treated	Irrigated	at Pond B	Contractor	County	Evap.	Stored	End of	Retention
Date	(feet)	(feet)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	Rainfall	Area (Y/N)
1	0.00	0.00	0		_ 0	0	0	0				,
2	0.00	0.00	0	o	0	0	0	0				7
3	0.00	0.00	0	0	0	0	0	0				
4	0.00	0.00	0	0	0	0	0	0				
5	0.00	0.00	0	0	0	0	0	. 0				
6	0.00	0.00	0	0	o	. 0	. 0	0				
7	0.00	0.00	0	0	0	0	0	0				
8	0.00	0.00	0	0	0	0	0	0				
9	0.00	0.00	0	0	o	0	0	0				
10	0.00	0.00	0	o	0	0	0	0				
11	0.00	0.00	0	o	0	0	0	0				
12	0.00	0.00	0	0	0	0	0	. 0				
13	0.00	0.00	0	o	0	0	0	0				
14	0.00	0.00	0	0	0	0	0	0				
15	0.00	0.00	0	0	0	0	0	0				
16	0.00	0.00	0	0	0	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:	symond Sraves

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	May,2007

	Depth in	Depth in	Pond B			Treated Effluent						Effluent⁴
	Pond A ¹	Pond B ²	Leak	Leachate	Spray	Evaporated	Hau	led	Dust Control/	Effluent	Time at	Runoff to
	:	ļ	Detection ³	Treated	Irrigated	at Pond B	Contractor	County	Evap.	Stored	End of	Retention
Date	(feet)	(feet)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	Rainfall	Area (Y/N)
17	0.00	0.00	0	0	0		0	0				
18	0.00	0.00	0	0	0		0	0				
19	0.00	0.00	0	o o	0		0	0				
20	0.00	0.00	0	0	0		o	_0				
21	0.00	0.00	o	0	0		0	0				
22	0.00	0.00	0	0	0		0	0				
23	0.00	0.00	0	0	0		_ 0	0				
24	0.00	0.00	0	0	0		0	0				
25	0.00	0.00	0	0	0		0	. 0				
26	0.00	0.00	0	0	_ 0		0	. 0				
27	0.00	0.00	0	0	0		0	0				
28	0.00	0.00	0	0	0		0	0				
29	0.00	0.00	0	0	0		0	0				
30	0.00	0.00	0	. 0	0		0	0	•			
31	0.00	0.00	0	0	0		0	0			<u> </u>	<u> </u>

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:			 			
	1	1		- · · · · · · · · · · · · · · · · · · ·		
Prepared by:	Raymond C.	Davis				





BOARD OF COUNTY COMMISSIONERS Brian Blair

Brian Blair Rose V. Ferlita Ken Hagan Al Higginbotham Jim Norman Mark Sharpe Kevin White

Office of the County Administrator Patricia G. Bean Deputy County Administrator Wally Hill

Assistant County Administrators Kenneth C. Griffin Carl S. Harness Manus J. O' Donnell

June 5, 2007

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 - April 2007 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 April 2007. In addition, the SWMD is providing the April 2007 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 April 2007 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 April 2007 was 19.6 inches.

Ms. Susan J. Pelz June 5, 2007 Page Two

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

Sincerely,

Jahn V. Berry Patricia V. Berry

Landfill Services Section Manager Solid Waste Management Department

Attachments

glfs/lea0407.dep



BOARD OF COUNTY COMMISSIONERS Brian Blair Rose V. Ferlita Ken Hagan Al Higginbotham Iim Norman Mark Sharpe

Kevin White

Office of the County Administrator Patricia G. Bean

Deputy County Administrator Wally Hill

Assistant County Administrators Kenneth C. Griffin Carl S. Harness Manus J. O' Donnell

MEMORANDUM

DATE:

May 17, 2007

TO:

Patricia Berry, Section Manager, Solid Waste Management Department

FROM: Larry Ruiz, General Manager II, Solid Waste Management Department

Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT:

Leachate Water Balance Report Forms for April 2007

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 Sections 7-8 of the Capacity Expansion for April 2007. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2007 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 3.9 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM May 17, 2007 Page 2 of 6

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 effluent was not stored in Pond A.

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. On April 11, 2007, the SWMD began storing leachate in the storage tank after completing the inspection and repairs. Pond B was empty by April 25 and it was cleaned and inspected on April 27. This month the average depth of leachate stored in Pond B was 2.3 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 19.6 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 138 gallons. A total of 4,140 gallons of leachate was pumped 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. On April 11, 2007, the SWMD began storing leachate in the storage tank after completing the inspection and repairs. 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 31,174 gallons. A total of 935,221 gallons of leachate was pumped this month.

MEMORANDUM May 17, 2007 Page 3 of 6

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

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 635 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 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 7-8 (Column VIII). On April 11, 2007, the SWMD began storing leachate in the storage tank after completing the inspection and repairs. This month an estimated 80,340 gallons of leachate was pumped from Sections 7-8.

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 Sections 7-8. This month a total of 1,015,561 gallons of leachate was pumped from Phases I-VI and Sections 7-8.

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. On April 11, 2007, the SWMD began storing leachate in the storage tank after completing the inspection and repairs. This month an average of 165,200 gallons of leachate was stored in the tank.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. On November 27, 2006, the SWMD began shut-down procedures in preparation for tankage inspection. At this time the SWMD is awaiting to complete the recommended repairs to the process tank. This month leachate was not treated at the LTRF.

MEMORANDUM May 17, 2007 Page 4 of 6

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 933,917 gallons of leachate was hauled off site.

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 landfill. 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. On April 27 Pond A was cleaned and inspected. This month effluent was not 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 amount 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. On April 11, 2007, the SWMD began storing leachate in the storage tank after completing the inspection and repairs. On April 27, Pond B was cleaned and inspected. This month a daily average of 165,900 gallons of leachate 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.

MEMORANDUM May 17, 2007 Page 5 of 6

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 effluent was not used as spray irrigation.

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 zero gallons.

TABLE 2

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

MEMORANDUM May 17, 2007 Page 6 of 6

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 1,015,561 gallons. Total outflow quantity from the LTRF was 933,917 gallons. The change in storage for the month of April increased by 81,644 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM APRIL 2007

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

	II .	- 111	IV	V	. VI	VII	VIII	IX	x	ΧI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
		Depth	Depth	Estimated	Leachate	Leachate	Leachate	Leachate	Total	Leachate	Leachate					EMuent				
		ın	in .	Depth	Pumped	Pumped	Pumped from	Pumped	Leachate	in	Treated	Total	Leachate	Pond	Pond	Sprayed	Effluent	EMuent	Total	
		Pond	Pond	at	to PS-B	to MLPS	Sections 7-8	to MLPS from	Pumped	575K	at	Leachate	Dust Control	Α	В	Pond	Irrigation	Dust Control	Effluent	Total
	Rainfall	^	В	PS-B	from TPS-6	from Phases I-VI	Leak Det	Sections 7-8	to LTRF	Tank	LTRF	Hauled	(Sprayed)	Storage	Storage	В		(Sprayed)	Hauled	Evaporatio
Day	(in.)	(ft.)	(in.)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal)	(gal)	(gal.)	(gal)	(gal.)	(gal.)
	0.00	0.0	3.2	21.9	70		22	0	32,007	0	0	. 0	0	0	192,000	0	0	0	C	Ď
2	0.00	0,0	3.5	18.3		29,701	16	3,160	32,861	0	. 0	18,813	0	0	223,000	O	0	0		}
3	0,00	0.0	3 6		260	30,915	22	0		0	0	37.290	0	0	234,000	0	0	0	C)
4	0,00	0.0	3.5	19.3	320	32,726	16		32,726	0	0	37.449	0	0	223,000	0	0	0	C)
- 5	0.00	0.0	3.6	18.9	280	36,502	20		39,862	0	0	37,259	0	0	234,000	0	0	0	(;	1
6	0.00	0,0	3.5	193	290	38,666	20		38,666	. 0	0	25,237	0	0	223,000	. σ	0	0	C	,
7	0,00	0.0	3.6	21.4	240	33.037	21		35,427	0	0	0	0	0	234,000	0	0	0	0	,
8	0.00	0,0	3.8	20.4	130		16			0	0	0	0	0	256,000	0	0	0	C	,
9	0.50	0.0	4.1	18.7	0	26,915	23		26,925	0	0	56.277	0	()	267,000	0	0	0	0	,
10	1.78	0.0	3 9	19.3	220	31,953	16		35,023	01	0	56,164	. 0	0	267,000	O.	0	0	0)
11	0,67	0.0	4.0	17	0	36,336	32	6,570	42,906		0	30,185	0	. 0	267,000	0	0	0	0	,
12	0,00	0.0	3.8	13.2	0	35,250	7	4.330	39,580	45,000	0	62,343	0	0	256,000	0	0	0	0	í
13	0.00	0.0	3.3	21.5	0	29,003	24	6,600	35,603	79,000	0	50,206	0.	0	202,000	1)	0	0		,
14	0.00	0,0	2.9	21.6	0	29,922	17	6,390	36,312	120,000	- 0	32,039	O	U	162,000	0	0	0	()	,
15	1.00	0.0	2,6	21.9	30	35,120	33	3,310	38,430	158,000	0	0	0	0	133,000	0	0	0	0	,
16	0.00	0,0	2.6	18,0	0	32.151	. *	6,630	3×,7×1	194,000	0	30,578	0	0	133,000	0	0	. 0	())
17	0.00	0.0	2.5	20.3	270	28,326	24	3,170	31,496	230,000	0	56,410	0	0	124,000	0	0	0	0	
18	0.00	0.0	19	197	170	35,525	17	6,110	41.635	269,000	0	43,715	0	0	72,000	O	0	0	()	
19	0.00	0.0	1.7	20 4	330	38.721	23	3,070	41.791	290,000	0	50,141	0	0	57,000	0	Ü	0	()	,
20	0.00	0.0	16	21.4	130	32,732	17	3,070	35,802	276,000	0	44,118	0	0	51,000	0-	0	0	0	
21	0.00	0.0	14	18.5	140	27,717	24	3,080	30,797	290,000	()	19,259	0	Ð	38,000	0	0	0	()	
22	0.00	0,0	1.4	21.1	30	23,878	19	0	23.878	295.000	0	0	0:	0	38,000	0	0	0.	0	,
23	0.00	0.0	19	17.6	t)	23,523	25	3,190	26,713	324,000	()	37.587	. 0	()	72,000	0	0	υ	0	
24	0.00	0.0	1.1	20.9	200	25,230	25	0	25,230	336,000	()	31,570	0	()	23,000	- 0	0.	υ	()	
25	0,00	0.0	0.0	21.2	200	29,965	20	3.110	33.075	341,000	0	44,140	0	0	()	0	0	0	0	1
26	0.00	0.0	0.0	20.6	110	31.453	26	3.270	34.723	341,000	0	31,344	0	0	0	0	0	0	0	
27	0.00	0.0	0.0	18.0	200	31,952	20	D	31,952	333,000	()	50,196	υ	0	0	()	0	0	0	
28	0.00	0.0	0.0	18.6	220	31.939	23	3,180	35,119	329,000	0	25,714	0	()	0	0	0	0	()	
29	0,00	0,0	0.0	18.1	300	28,913	23	0	28,913	338,000	0	0	0	0	0	0	0	U	0	
30	0.00	0.0	0.0	18.1	0	28,554	36	3,080	31,634	367,000	()	25,883	0	()	0	0	0	0	0	
								-												
otal	3.95				4,140	935,221	635	80,340	1.015.561			022 013								<u> </u>
ally Average	2.72	0.0	2.3	19.6	138		21			165,200		933,917			14.5.1900		- 0	()	()	
lo. Average					136	31.1741		2,076	33.632	165,200				. 0	165,900	()				Ļ
				<u> </u>		L							[0]				()	()	s (Revised b	(

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 riset
- 9 Column XI, calculated from depth in 575,000 gal. leachate tank.
- 10 Columns VI, VIII, 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

Form #5 - Leachate Balance Report

TABLE 2. FIELD DATA ENTRY FORM APRIL 2007

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

1		[1]	IV	V	VI	VII	VIII	IX	Х	XI	XII	XIII	XIV	xv	XVI	XVI	XVIII	XIX
	ļ								Leachate				Effluent	Leachate	Effluent			Effluent
	Reading	Sections 7-8	Sections 7-8	Flow Meter	Flow Meter	Depth in	Leachate	Hauled	Dust Control		Depth in	Depth in	Sprayed	Treated	Irrigation	Effluen	t Hauled	Dust Control
_	PS-B	Leak Det.	Flow Meter	TPS-6	Pump Sta. A	575K Tank	Contractor	County	(Sprayed)	Rainfall	Pond A	Pond B	(Pond B)	at LTRF		Contractor	County	(Sprayed)
Day	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(ft.)	(gal.)	(gal.)	(gal.)	(in.)	(ft.)	(ft.)	(gal)	(gal.)	(gal.)	(gal.)	(gal.)	(gal)
1	12.9	5,086	12,724,070	5,839,350	6,783,834	0.00	0	0	0	0.00	0.0	3.2	0	0	0	0	0	T 0
2	9.3	5,102	12,727,230	5,839,350	6,813,535	0,00	0	18,813	0	0,00	0.0	3.5	0	0	. 0	0	0	0
3	12.4	5,124	12,727.230	5,839,610	6,844,450	0.00	0	37,290	0	0.00	0.0	3.6	0	0	0	0	0	0
4	10.3	5,140	12,727,230	5,839,930	6,877,176	0.00	0	37,449	0	0.00	0.0	3.5	0	0	0	0	0	0
5	9.9	5,160	12,730,590	5,840,210	6,913,678	0.00	0	37,259	0	0.00	0.0	3.6	0	0	0	0	0	0
6	10,3	5,180	12,730,590	5,840,500	6,952,344	0.00	0	25,237	0	0,00	0.0	3.5	0	0	0	0	0	0
7	12.4	5,201	12,732,980	5,840,740	6,985,381	0.00	0	0	0	0.00	0,0	3.6	0	0	0	0	0	0
8	11.4	5,217	12,733,170	5,840,870	7,011,970	0.00	0	0	0	0.00	0,0	3.8	0	0	0	0	0	0
9	9.7	5,240	12,733,180	5,840,870	7,038,885	0.00	0	56,277	0	0.50	0.0	4.1	0	0	0	0	0	0
10	10,3	5,256	12,736,250	5,841,090	7,070,838	0.00	0	56,164	0	1,78	0.0	3.9	0	0	0	0	0	0
1!	8.1	5,288	12,742,820	5.841,090	7,107,174	0.00	0	30,185	0	0.67	0.0	4.0	0	0	0	0	0	0
12	4.2	5,295	12,747,150	5,841,090	7,142,424	1.58	0	62,343	0	0,00	0.0	3.8	0	0	0	0	Ö	0
13	12.5	5,319	12,753,750	5,841,090	7,171,427	2.75	0	50,206	0	0.00	0.0	3.3	0	0	0	0	0	0
14	12.6	5,336	12,760,140	5,841,090	7,201,349	4.17	0	32,039	0	0,00	0.0	2.9	0	0	0	0	0	0
15	12.9	5,369	12,763,450	5,841,120	7,236,469	5.50	0	0	0	1.00	0.0	2.6	0	0	0	0	0	0
16	9,0	5,377	12,770,080	5,841,120	7,268,620	6.75	0	30,578	0	0.00	0.0	2.6	0	0	0	0	0	0
17	11.3	5,401	12,773,250	5,841,390	7,296,946	8.00	0_	56,410	0	0.00	0.0	2.5	0	0	0	0	0	0
18	10.7	5,418	12,779,360	5,841,560	7,332,471	9.33	0	43,715	0	0.00	0,0	1.9	0	0	0	0	0	0
19	11.4	5,441	12,782,430	5,841,890	7,371,192	10.08	0	50,141	0	0.00	0.0	1.7	0	0	0	0	0	0
20	12.4	5,458	12,785,500	5,842,020	7,403,924	9.58	0	44,118	0	0.00	0.0	1.6	0	0	0	0	0	0
21	9.5	5,482	12,788,580	5,842,160	7,431,641	10,08	0	19,259	0	0.00	0.0	1.4	0	0	0	0	0	0
22	12.1	5,501	12,788,580	5,842,190	7,455,519	10.25	0	0	0	0,00	0,0	1.4	0	0	0	0	0	0
23	8.6	5,526	12,791,770	5,842,190	7,479,042	11.25	0	37,587	0	0.00	0.0	1.9	0	0	0	0	0	0
24	11.9	5,551	12,791,770	5,842,390	7,504,272	11,67	0	31,570	0	0.00	0,0	1.1	0	0	0	0	0	0
25	12.2	5,571	12,794,880	5,842,590	7,534,237	11.83	0	44,140	0	0,00	0.0	0.0	0	0	0	0	0	0
26	11.6	5,597	12,798,150	5,842,700	7,565,690	11.83	0	31,344	0	0.00	0.0	0.0	0	0	0	0	0	0
27	9.0	5,617	12,798,150	5,842,900	7,597,642	11.58	0	50,196	0	0.00	0.0	0.0	0	0	0	0	0	0
28	9.6	5,640	12,801,330	5,843,120	7,629,581	11.42	0	25,714	0	0,00	0.0	0.0	0	0	0	0	0	0
29	9.1	5,663	12,801,330	5,843,420	7,658,494	11.75	0	0	0	0.00	0.0	0.0	0	0	0	0	0	0
30	9.1	5,699	12,804,410	5,843,420	7,687,048	12.75	0	25,883	0	0.00	0.0	0.0	0	0	0	0	0	0
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projects\balance\2007\04-07bal.xls (Revised by Ier 5/16/07)

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.

Type of Cover	Phases I-VI	Sections 7-8
Type of Cover	acres	acres
Ореп	0	6
Intermediate	139,4	13.3
Final	23	0
Not Opened	0	0

- 4. Column XI, trace is less than 0.01 inches.
- 6. Columns XII and XIII measured from staff gages in each pond.

TABLE 3. 2007 MONTHLY LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA

		1.0	achate Arriving at L	TRF	Lea	chate Leaving LT	`RF		Effluent Disposal		Inflo	w / Outflow For I	TRF
		Leachate Hauled	Leachate	Leachate	Total Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow	Change
	Rainfall		from Sections 7-8	from Phases I-VI	Hauled	Dust Control	Treated at	Effluent	Dust Control	Irrigation	to	from	in
		HHLF/TRLF	Pumped to LTRF	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	Hauled	(Sprayed)		LTRF	LTRF	Storage ³
Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
January	3.02	0	82,740	1,042,128	1,161,110	0	0	0	0	0	1,124,868	1,161,110	-36,242
February	2.50	0	80,265		1,205,428	0	0	0	0	0	1,011,414	1,205,428	-194,014
March	0.77	0	42,020	967,447	875,037	0	0	0	0	0	1,009,467	875,037	134,430
April	3.95	0	80,340	935,221	933,917	0	0	0	0	0	1,015,561	933,917	81,644
May	0.00	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	C	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
October	0.00	0	0	0	0	0	C) c	0	0	0	0	0
November	0.00	0	0	o	0	0	C		0	0	0	0	0
December	0.00		C	C	0	0	(0	0	0	0	0
Beeninger	1									_			<u> </u>
YTD Total	10.24	(285,365	3,875,945	4,175,492	0	(0	0	4,161,310	4,175,492 907-summary xls (Re-	-14,182

projects\balance\2007\2007-summary xls (Revised by ler 5/16/07)

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.

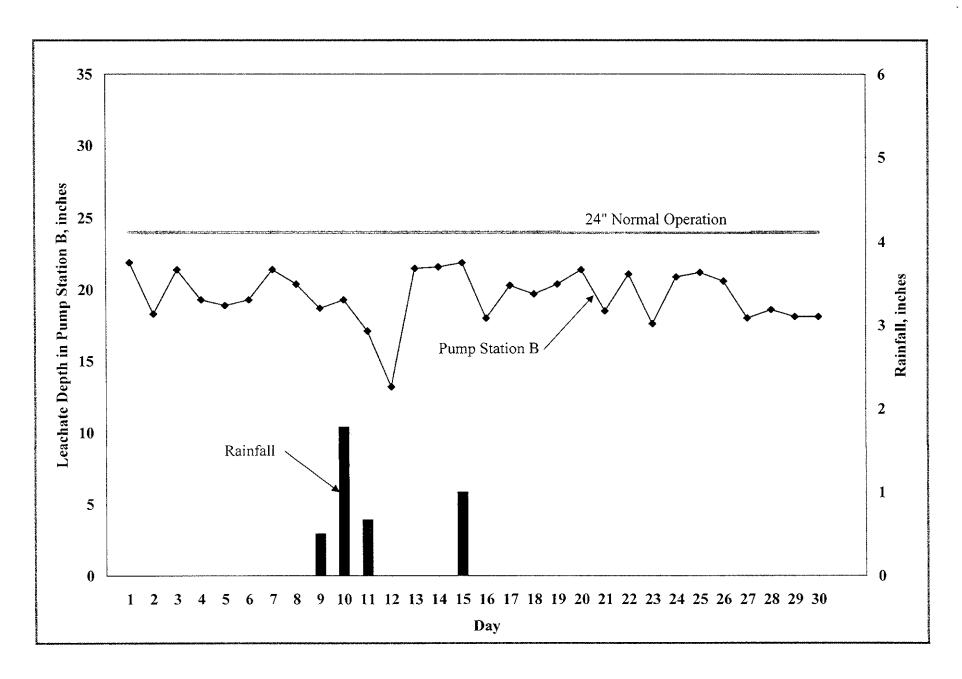


Figure 1. Leachate Levels in Pump Station B and Rainfall for April 2007.

LEACHATE DEPTH/SUMMARY DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year) April,2007

	TP	S-6				Sectio	ns 7 - 8		Leachate	Hauled	Leachate	
:	Depth	Flowmeter	Depth ¹ in Pond B	Pump ² Station B	PS-A Flow Meter	Flowmeter	Leak Detection	Depth in 575k Tank	Contractor	County	Dust Control/ Evap.	Rainfall
Date	(inches)	(gallons)	(feet)	(inches)	(gallons)	(gallons)	(gallons)	(feet)	(gallons)	(gallons)	(gallons)	(inches)
1	0.0	70	3.20	12.9	32,007	0	22	0.00	0	0	0	0.00
2	0.0	0	3.50	9.3	29,701	3,160	16	0.00	0	18,813	0	0.00
3	0.0	260	3.60	12.4	30,915	0	22	0.00	0	37,290	0	0.00
4	0.0	320	3.50	10.3	32,726	0	16	0.00	0	37,449	0	0.00
5	0.0	280	3.60	9.9	36,502	3,360	20	0.00	0	37,259	0	0.00
6	0.0	290	3.50	10.3	38,666	0	20	0.00	0	25,237	0	0.00
7	0.0	240	3.60	12.4	33,037	2,390	21	0.00	0	0	0	0.00
8	0.0	130	3.80	11.4	26,589	190	16	0.00	0	0	0	0.00
9	0.0	0	4.10	9.7	26,915	10	23	0.00	0	56,277	0	0.50
10	0.0	220	3.90	10.3	31,953	3,070	16	0.00	0	56,164	0	1.78
11	0.0	0	4.00	8.1	36,336	1,970	32	0.00	0	30,185	. 0	0.67
12	0.0	0	3.80	4.2	34,240	4,330	7	1'7"	0	62,343	o	0.00
13	0.0	0	3.30	12.5	29,003	6,600	24	2'9"	0	50,206	0	0.00
14	0.0	0	2.90	12.6	29,922	6,390	17	4'2"	0	32,039	0	0.00
15	0.0	30	2.60	12.9	35,120	3,310	33	5'6"	0	0	0	1.00
16	0.0	0	2.60	9.0	32,151	6,630	8	6'9"	0	30,578	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:		
	1	
Prepared by: _	Roymond Straves	

LEACHATE DEPTH/SUMMARY DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	April,2007
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	TP	S-6				Sectio	ns 7-8		Leachate	Hauled	Leachate	
	Depth	Flowmeter	Depth ¹ in Pond B	Pump ² Station B	PS-A Flow Meter	Flowmeter	Leak Detection	Depth in 575k Tank	Contractor	County	Dust Control/ Evap.	Rainfall
Date	(inches)	(gallons)	(feet)	(inches)	(gallons)	(gallons)	(gallons)	(feet)	(gallons)	(gallons)	(gallons)	(inches)
17	0.0	270	2.50	11.3	28,326	3,170	24	8'0"	0	56,410		0.00
18	0.0	170	1.90	10.7	35,525	6,110	17	9'4"	0	43,715		0.00
19	0.0	330	1.70	11.4	38,721	3,070	23	10'1"	0	50,141		0.00
20	0.0	130	1.60	12.4	32,732	3,070	17	9'7"	0	44,118		0.00
21	0.0	140	1.40	9.5	27,717	3,080	24	10'1"	0	19,259		0.00
22	0.0	30	1.40	12.1	23,878	0	19	10'3"	0	0		0.00
23	0.0	0	1.90	8.6	23,523	3,190	25	11'3"	0	37,587		0.00
24	0.0	200	1.10	11.9	25,230	0	49	11'8"	0	31,570		0.00
25	0.0	200	0.00	12.2	29,965	3,110	20	11'10'	0	44,140		0.00
26	0.0	110	0.00	11.6	31,453	3,270	26	11'10"	0	31,344		0.00
27	0.0	200	0.00	9.0	32,002	0	20	11'7"	0	50,196		0.00
28	0.0	220	0.00	9.6	31,889	3,180	23	11'5"	0	25,714		0.00
29	0.0	300	0.00	9.1	28,913	0	23	11'9"	0	0		0.00
30	0.0	0	0.00	9.1	28,554	3,080	36	12'9"	0	25,883		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:			
	2		
Prepared by:	Kurmond (Angeres	<u> </u>	

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	April,2007

	Depth in	Depth in	Pond B		Treated Effluent							Effluent ⁴
	Pond A	Pond B ²	Leak	Leachate	Spray	Evaporated	Hav	ıled	Dust Control/	Effluent	Time at	Runoff to
			Detection ³	Treated	Irrigated	at Pond B	Contractor	County	Evap.	Stored	End of	Retention
Date	(feet)	(feet)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	Rainfall	Area (Y/N)
1	0.00	0.00	0	0	0	0	0	0				
2	0.00	0.00	0	o)	0	0	0	0				
3	0.00	0.00	0	0	0	0	0	0				
4	0.00	0.00	0	0	0	0	0	0				
5	0.00	0.00	0	0	0	0	0	0				
6	0.00	0.00	0	0	0	0	0	0				
7	0.00	0.00	0	0	0	0	0	0				
8	0.00	0.00	0	0	0	0	0	_ 0				
9	0.00	0.00	0	0	0	0	0	0	<u></u> .			
10	0.00	0.00	0	0	0	0	0	0				
11	0.00	0.00	0	0	0	0	0	0				
12	0.00	0.00	0	0	0	0	<u>o</u>	0				
13	0.00	0.00	0	0	0	0	0	0				
14	0.00	0.00	0	0	0	0	0	0				
15	0.00	0.00	0	0	0	0	0	0				
16	0.00	0.00	0	0	0	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:	.,,	•					 	
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Prepared by:	_14	armer	Icha	w.				

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year)	April,2006
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	Depth in	Depth in	Pond B		Treated Effluent							Effluent ⁴
	Pond A ¹	Pond B ²	Leak	Leachate	Spray	Evaporated	Hauled		Dust Control/	Effluent	Time at	Runoff to
			Detection ³	Treated	Irrigated	at Pond B	Contractor	County	Evap.	Stored	End of	Retention
Date	(feet)	(feet)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	Rainfall	Area (Y/N)
17	0.00	0.00	0	0	0		0	0				
18	0.00	0.00	0	0	0		0	0				
19	0.00	0.00	0	0	0			0				
20	0.00	0.00	0	0	0		0	0				
21	0.00	0.00	0	0	0		0	0				
22	0.00	0.00	0	0	0		0	. 0				
23	0.00		0	0	0		0	0				
24	0.00	0.00	0	0	0		0	0				
25	0.00	0.00	0	0	. 0		0	0				
26	0.00			0	0		0	0				
27	0.00			0	0		0	0				
28	0.00			0	0		0	0				
29	0.00	1	_	0	0		0	0				
30	0.00		 	0	0		0	0				
31	0.00			0	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.

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