
FAX COVER

TO:

DATE: May 31, 1995
NAME: Mr. Kim Ford
ORGANIZATION: Florida Department of Environmental Protection
FAX NUMBER: 744-6125
PHONE NUMBER: 744-6100 ext. 382

SCS ENGINEERS

Environmental Consultants

3012 U.S. Highway 301 North
Suite 700
Tampa, Florida 33619

Phone 813 621-0080
FAX 813 623-6757

FROM: Larry E. Ruiz
JOB NUMBER: 0990018.35
NUMBER OF PAGES: 2

COMMENTS:

As requested, SCS Engineers (SCS) is providing the revised Leachate Water Balance Report Form for Southeast County Landfill, Hillsborough County, Florida. If you have any questions, please do not hesitate to call.

LEACHATE WATER BALANCE REPORT FORM
APRIL 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

Day	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.6	23.0	17.0	1,284,000	NR	115,000	35,000	81,000	0	71,000	0	0	0	0
2	23.2	5.0	92.2	NR	NR	NR	NR	163,000	NR	47,000	0	0	NR	0	0	0	0
3	23.2	5.0	92.2	0.0	42.0	17.0	1,284,000	126,000	115,000	43,000	75,000	9,000	133,000	46,000	0	0	44,000
4	23.2	5.0	92.2	0.0	40.0	16.0	1,189,000	89,000	115,000	43,000	0	17,000	131,000	46,000	0	0	51,000
5	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	104,000	144,000	44,000	31,000	0	113,000	46,000	0	0	37,000
6	23.2	5.0	92.2	0.6	29.0	16.0	1,189,000	103,000	173,000	46,000	0	0	92,000	46,000	0	0	37,000
7	23.2	5.0	92.2	0.0	33.0	15.0	1,115,000	125,000	230,000	46,000	50,000	0	108,000	0	0	0	0
8	23.2	5.0	92.2	0.0	21.0	16.0	1,189,000	NR	259,000	44,000	62,000	0	65,000	0	0	0	0
9	23.2	5.0	92.2	0.0	NR	NR	NR	236,000	NR	43,000	0	0	NR	0	0	0	0
10	23.2	5.0	92.2	0.0	45.0	16.0	1,189,000	83,000	345,000	43,000	62,000	17,000	150,000	39,000	0	0	45,000
11	23.2	5.0	92.2	0.0	39.0	16.0	1,189,000	141,000	317,000	45,000	50,000	17,000	127,000	39,000	0	12,000	45,000
12	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	95,000	345,000	45,000	50,000	0	113,000	39,000	0	19,000	32,000
13	23.2	5.0	92.2	0.0	31.0	16.0	1,189,000	71,000	345,000	46,000	25,000	0	99,000	39,000	0	25,000	32,000
14	23.2	5.0	92.2	0.0	27.0	16.0	1,189,000	53,000	345,000	44,000	37,000	0	85,000	27,000	0	12,000	22,000
15	23.2	5.0	92.2	0.0	21.0	27.0	2,546,000	NR	317,000	55,000	25,000	0	65,000	0	0	25,000	0
16	23.2	5.0	92.2	0.0	NR	NR	NR	185,000	NR	47,000	0	0	NR	0	0	0	0
17	23.2	5.0	92.2	0.0	39.0	16.0	1,189,000	83,000	374,000	39,000	25,000	0	124,000	39,000	0	25,000	32,000
18	23.2	5.0	92.2	0.0	36.0	16.0	1,189,000	85,000	403,000	48,000	38,000	0	119,000	39,000	0	25,000	32,000
19	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	94,000	403,000	44,000	50,000	0	113,000	39,000	0	25,000	32,000
20	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	85,000	403,000	44,000	50,000	0	113,000	39,000	0	25,000	32,000
21	23.2	5.0	92.2	0.0	21.0	16.0	1,189,000	66,000	374,000	45,000	50,000	0	65,000	39,000	0	25,000	32,000
22	23.2	5.0	92.2	0.0	NR	15.0	1,115,000	NR	345,000	47,000	44,000	0	NR	0	0	25,000	0
23	23.2	5.0	92.2	0.0	NR	NR	NR	192,000	NR	44,000	0	0	NR	0	0	0	0
24	23.2	5.0	92.2	0.0	30.0	16.0	1,189,000	95,000	403,000	46,000	50,000	0	95,000	46,000	0	25,000	37,000
25	23.2	5.0	92.2	0.2	25.0	16.0	1,189,000	66,000	403,000	45,000	50,000	0	78,000	46,000	0	25,000	37,000
26	23.2	5.0	92.2	0.2	25.0	16.0	1,189,000	66,000	374,000	45,000	50,000	0	78,000	0	0	25,000	0
27	23.2	5.0	92.2	0.0	27.0	16.0	1,189,000	85,000	345,000	45,000	69,000	0	85,000	46,000	0	25,000	37,000
28	23.2	5.0	92.2	0.0	24.0	16.0	1,189,000	66,000	317,000	46,000	50,000	0	75,000	0	0	25,000	0
29	23.2	5.0	92.2	0.0	21.0	16.0	1,189,000	NR	289,000	46,000	50,000	0	65,000	0	0	25,000	0
30	23.2	5.0	92.2	NR	NR	NR	NR	168,000	NR	44,000	0	0	NR	0	0	0	0
Total				1.80	738.0	411.0	31,084,000	2,725,000	7,597,000	1,344,000	1,124,000	60,000	2,362,000	700,000	0	393,000	616,000
Daily Avg				0.06	30.8	16.4	1,243,000	91,000	304,000	45,000	37,000	2,000	98,000	23,000	0	13,000	21,000

Revised by BWP, 5/30/95.

Notes:

- NR = No Records.
- Column II, total area with waste is 120.4 acres (Phases I-IV).
- Columns III and IV, field measured.
- Column V, estimated from depth in Phase IV riser.
- Column VI, estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
- Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
- Column VIII, calculated from depth in 500,000 gal. leachate tank.
- Columns IX and XIII quantities from flow meters.
- Columns X, XI, XIV, and XV, quantities calculated from truck weight.
- Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.

RB

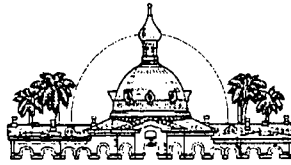
HILLSBOROUGH COUNTY

Florida

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MAY 30 1995

SOUTHWEST DISTRICT
TAMPA

May 25, 1995

Mr. Kim Ford, P.E.
Solid Waste Program
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

The Hillsborough County Department of Solid Waste (DSW) has received the Florida Department of Environmental Protection's (DEP) May 12, 1995 correspondence concerning the DSW's leachate management efforts at the County's Southeast County Landfill (Landfill).

As discussed in our most recent additional information submittal for the Landfill permit renewal, the DSW has proposed to install a temporary piezometer in Phase IV of the Landfill to serve as a measurement device for determining the leachate level in the Landfill in the area of greatest clay settlement. While the DSW can appreciate the DEP's suggestion to install the piezometer as soon as possible, the DSW requests that the DEP first review and approve the piezometer design and installation location. The design and location information will be provided to the DEP, along with the final additional information submittal, on May 26, 1995.

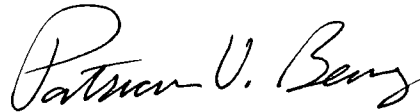
The second issue raised by the DEP's May 12, 1995 letter pertains to the spray irrigation quantities for the month of March 1995. The construction permit for the Leachate Treatment and Reclamation Facility (LTRF) does not obligate the DSW to spray irrigate a specific quantity of treated leachate effluent. However, the DSW does intend to maximize the amount of effluent which is disposed of through spray irrigation versus off-site hauling. The DSW does not spray irrigate on Saturdays or Sundays since the LTRF contractor is not on site. This accounts for 8 days of 0 gallons per day (gpd). No spray irrigation was conducted on March 8, 1995 due to a rain event.

Mr. Kim Ford
May 25, 1995
Page Two

On March 22 and 23, 1995, no spray irrigation occurred since a contractor representative was not present for those days. Only 12,000 gpd were spray irrigated on March 24, 1995 due to the low level in the effluent basin. In addition, the DSW is required to manage the spray irrigation system in accordance with the Landfill filling sequence. During March 1995, the filling activities for Phase IV interfered with the operation of irrigation zones 7 and 8 due to the location of the working phase and sprinkler heads. This situation limited the amount of spray irrigation for the month.

Should you require additional information concerning this matter or if I can be of further assistance, please call at 276-2908.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

xc: Matt Matthews, DSW
Steve Hamilton, SCS
Steve Morgan, DEP
Paul Schipfer, EPC

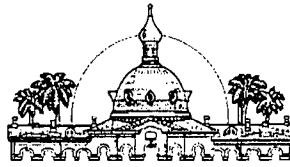
HILLSBOROUGH COUNTY

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Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
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Robert Taylor

May 23, 1995

RECEIVED
MAY 25 1995

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the April 1995 Water Balance Report Forms and Field Data Entry Forms for the Landfill. In addition, the DSW is providing the April 1995 effluent and leachate field data forms for the Landfill and the daily leachate and collection system evaluation reports.

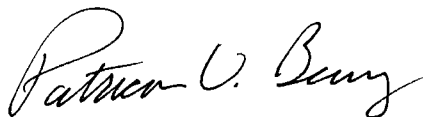
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

As can be seen from the April 1995 Leachate Water Balance Report, SCS Engineers, the DSW's landfill engineering consultant, has estimated that the leachate level within the Landfill, based on the Phase IV Riser leachate level, is approximately 16 inches over the liner. The depth of leachate measured in the Phase III Riser is between 3 and 4 inches.

Mr. Kim Ford
May 23, 1995
Page Two

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

Attachments

xc: Matt Matthews, DSW
Steve Hamilton, SCS
Steve Morgan, DEP
Paul Schipfer, EPC

Department of Environmental Protection
SOUTHWEST DISTRICT
BY

MAY 25 1995

LEACHATE WATER BALANCE REPORT FORM

APRIL 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

		II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
		Area (acres)	Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
Day	final	active	int.													
1	23.2	5.0	92.2	0.6	23.0	17.0	1,264,000	163,000	115,000	35,000	81,000	0	71,000	0	0	0
2	23.2	5.0	92.2	NR	NR	NR	NR	NR	47,000	0	0	NR	0	0	0	0
3	23.2	5.0	92.2	0.0	42.0	17.0	1,264,000	126,000	115,000	43,000	75,000	9,000	138,000	46,000	0	44,000
4	23.2	5.0	92.2	0.0	40.0	16.0	1,189,000	89,000	115,000	43,000	0	17,000	131,000	46,000	0	51,000
5	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	104,000	144,000	44,000	31,000	0	113,000	46,000	0	37,000
6	23.2	5.0	92.2	0.6	29.0	16.0	1,189,000	103,000	173,000	46,000	0	0	92,000	46,000	0	37,000
7	23.2	5.0	92.2	0.0	33.0	15.0	1,115,000	125,000	230,000	46,000	50,000	0	106,000	0	0	^
8	23.2	5.0	92.2	0.0	21.0	16.0	1,189,000	236,000	259,000	44,000	62,000	0	65,000	0	0	
9	23.2	5.0	92.2	0.0	NR	NR	NR	NR	43,000	0	0	NR	0	0	0	0
10	23.2	5.0	92.2	0.0	45.0	16.0	1,189,000	93,000	345,000	43,000	62,000	17,000	150,000	39,000	0	45,000
11	23.2	5.0	92.2	0.0	39.0	16.0	1,189,000	141,000	317,000	45,000	50,000	17,000	127,000	39,000	12,000	45,000
12	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	95,000	345,000	45,000	50,000	0	113,000	39,000	19,000	32,000
13	23.2	5.0	92.2	0.0	31.0	16.0	1,189,000	71,000	345,000	46,000	25,000	0	99,000	39,000	25,000	32,000
14	23.2	5.0	92.2	0.0	27.0	16.0	1,189,000	53,000	345,000	44,000	37,000	0	85,000	27,000	12,000	22,000
15	23.2	5.0	92.2	0.0	21.0	27.0	2,546,000	185,000	317,000	55,000	25,000	0	65,000	0	25,000	0
16	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	47,000	0	0	NR	0	0	0
17	23.2	5.0	92.2	0.0	38.0	16.0	1,189,000	93,000	374,000	39,000	25,000	0	124,000	39,000	25,000	32,000
18	23.2	5.0	92.2	0.0	36.0	16.0	1,189,000	85,000	403,000	48,000	38,000	0	116,000	39,000	25,000	32,000
19	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	94,000	403,000	44,000	50,000	0	113,000	39,000	25,000	32,000
20	23.2	5.0	92.2	0.0	35.0	16.0	1,189,000	65,000	403,000	44,000	50,000	0	113,000	39,000	25,000	32,000
21	23.2	5.0	92.2	0.0	21.0	16.0	1,189,000	66,000	374,000	45,000	50,000	0	65,000	39,000	25,000	32,000
22	23.2	5.0	92.2	0.0	NR	15.0	1,115,000	192,000	345,000	47,000	44,000	0	NR	0	25,000	0
23	23.2	5.0	92.2	0.0	NR	NR	NR	NR	44,000	0	0	NR	0	0	0	0
24	23.2	5.0	92.2	0.0	30.0	16.0	1,189,000	95,000	403,000	46,000	50,000	0	95,000	46,000	25,000	37,000
25	23.2	5.0	92.2	0.2	25.0	16.0	1,189,000	66,000	403,000	45,000	50,000	0	78,000	46,000	25,000	37,000
26	23.2	5.0	92.2	0.2	25.0	16.0	1,189,000	66,000	374,000	45,000	50,000	0	78,000	0	25,000	0
27	23.2	5.0	92.2	0.0	27.0	16.0	1,189,000	85,000	345,000	45,000	69,000	0	85,000	46,000	25,000	37,000
28	23.2	5.0	92.2	0.0	24.0	16.0	1,189,000	66,000	317,000	46,000	50,000	0	75,000	0	25,000	0
29	23.2	5.0	92.2	0.0	21.0	16.0	1,189,000	168,000	288,000	46,000	50,000	0	65,000	0	25,000	
30	23.2	5.0	92.2	NR	NR	NR	NR	NR	44,000	0	0	NR	0	0	0	
Total				1.60	738.0	411.0	31,084,000	2,725,000	7,597,000	1,344,000	1,124,000	60,000	2,362,000	700,000	393,000	616,000
Daily Avg				0.06	30.8	16.4	1,243,000	109,000	304,000	45,000	37,000	2,000	98,000	23,000	13,000	21,000

Revised by BWP, 4/13/95.

Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured.
4. Column V, estimated from depth in Phase IV riser.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
6. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, estimated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.

**FIELD DATA ENTRY FORM
APRIL 1995**

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII
Day	Active Area (ac.)	Depth in Effl. Pond (in.)	Stormwater In Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Contractor (gal.)	Hauled County (gal.)	Leachate Recirc. (gal.)	Effluent Contractor (gal.)	Hauled County (gal.)	Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
1	5.0	23.0	63.0	3.0	17.0	NR	0.6	62,372	18,683	0	0	0	0	34,904	0	4.0
2	5.0	NR	NR	NR	NR	NR	NR	NR	0	0	0	0	0	46,847	0	NR
3	5.0	42.0	64.0	4.0	17.0	NR	0.0	62,170	12,526	8,500	0	0	0	43,303	45,570	4.0
4	5.0	40.0	62.0	4.0	16.0	NR	0.0	NR	0	17,000	0	0	0	42,906	45,570	4.0
5	5.0	35.0	60.0	4.0	16.0	NR	0.0	31,039	0	0	0	0	0	43,880	45,570	5.0
6	5.0	29.0	62.0	4.0	16.0	NR	0.6	NR	0	0	0	0	0	45,703	45,570	6.0
7	5.0	33.0	60.0	3.0	15.0	NR	0.0	49,710	0	0	0	0	0	46,217	0	
8	5.0	21.0	62.0	3.0	16.0	NR	0.0	43,313	18,464	0	0	0	0	44,203	0	
9	5.0	NR	NR	NR	NR	NR	0.0	NR	0	0	0	0	0	43,319	0	NR
10	5.0	45.0	63.0	3.0	16.0	NR	0.0	49,533	12,299	17,000	0	0	0	43,448	39,060	12.0
11	5.0	39.0	60.0	3.0	16.0	NR	0.0	37,516	12,134	17,000	12,467	0	0	45,098	39,060	11.0
12	5.0	35.0	59.0	3.0	16.0	NR	0.0	31,355	18,662	0	18,622	0	0	45,223	39,060	12.0
13	5.0	31.0	24.0	3.0	16.0	NR	0.0	25,200	0	0	24,912	0	0	46,298	39,060	12.0
14	5.0	27.0	57.0	4.0	16.0	NR	0.0	37,393	0	0	12,358	0	0	44,323	27,240	12.0
15	5.0	21.0	58.0	4.0	27.0	NR	0.0	24,858	0	0	24,835	0	0	54,960	0	11.0
16	5.0	NR	NR	NR	NR	NR	0.0	NR	0	0	0	0	0	47,190	0	NR
17	5.0	38.0	60.0	3.0	16.0	NR	0.0	25,067	0	0	24,811	0	0	39,462	39,060	13.0
18	5.0	36.0	28.0	3.0	16.0	NR	0.0	37,557	0	0	24,729	0	0	47,511	39,060	14.0
19	5.0	35.0	57.0	3.0	16.0	NR	0.0	49,974	0	0	24,800	0	0	44,428	39,096	14.0
20	5.0	35.0	56.0	3.0	16.0	NR	0.0	49,808	0	0	24,800	0	0	43,697	39,060	14.0
21	5.0	21.0	58.0	4.0	16.0	NR	0.0	49,840	0	0	24,800	0	0	45,210	39,060	13.0
22	5.0	NR	56.0	3.0	15.0	NR	0.0	43,897	0	0	24,818	0	0	47,153	0	12.0
23	5.0	NR	NR	NR	NR	NR	0.0	NR	0	0	0	0	0	43,677	0	NR
24	5.0	30.0	59.0	4.0	16.0	NR	0.0	49,824	0	0	24,667	0	0	45,629	45,650	14.0
25	5.0	25.0	42.0	3.0	16.0	NR	0.2	43,406	6,200	0	24,800	0	0	45,030	45,650	14.0
26	5.0	25.0	55.0	3.0	16.0	NR	0.2	37,284	12,360	0	24,800	0	0	45,000	0	13.0
27	5.0	27.0	55.0	3.0	16.0	NR	0.0	50,244	18,773	0	24,800	0	0	45,000	45,650	
28	5.0	24.0	48.0	4.0	16.0	NR	0.0	43,359	6,200	0	24,800	0	0	45,555	0	1
29	5.0	21.0	53.0	4.0	16.0	NR	0.0	49,811	0	0	24,800	0	0	45,729	0	10.0
30	5.0	NR	NR	NR	NR	NR	NR	NR	0	0	0	0	0	43,548	0	NR
1	First day of next month. Record depth in 500,000 gal tank only.															11.0

Notes:

1. NR = No Records.
2. Columns II-VIII, field measured.
3. Column VI, if level exceeds 27.6 inches (2.3 ft.), leachate withdrawal from landfill must increase.
4. Column VII, Phase IV piezometer not yet constructed.
5. Columns IX-XIV, quantities calculated from truck weight.
6. Columns XV and XVI, quantities from flow meters.
7. Column XVII, field measured.

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

(Month/Year) Apr:1 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1	23	34,904	—				34,904	AM	—	
2		46,847	—	—	—	—	46,847	—	—	
3	42	43,303	45,570				(2,267)		N	
4	40	42,906	45,570				(2,664)		N	
5	35	43,880	45,570				(1,690)		N	
6	29	45,703	45,570				(133)	AM	N	
7	33	46,217	—				46,217			
8	21	44,203	—				44,203			
9	—	43,319	—	—	—	—	43,319			
10	45	43,448	39,060				4,388		N	
11	39	45,098	39,060	12,467			6,038		N	
12	35	45,223	39,060	18,622			6,163		N	
13	31	46,298	39,060	24,912			7,238		N	
14	27	44,323	27,240	12,358			17,083		N	
15	21	54,960	—	24,835			54,960			
16	—	47,190	—	—	—	—	47,190			

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments:

EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL
 (Month/Year) _____

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17	38	39,462	39,060	24,811			402		N	
18	36	47,511	39,060	24,729			8,451		N	
19	35	44,428	39,096	24,800			5,332		N	
20	35	43,697	39,060	24,800			4,637		N	
21	21	45,210	39,060	24,800			7,150		N	
22	—	47,153	—	24,818			47,153			
23	—	43,677	—	—			43,677			
24	30	45,629	45,650	24,667			(,021)		N	
25	25	45,030	45,650	24,800			(,620)	AM	N	
26	25	45,000	—	24,800			45,000	AM		
27	27	45,000	45,650	24,800			(,650)		N	
28	24	45,555	—	24,800			45,555			
29	21	45,729	—	24,800			45,729			
30	—	43,548	—	—			43,548			
31										

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: _____

LEACHATE DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year) April, 1995

Date	Sump No. 3 (Inches)	(1) Phase IV Riser (Inches)	(1) Phase IV Piezometer (Inches)	Phase III Riser (Inches)	Sump No. 4 (Inches)	Depth In 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)	Initials
								Contractor (gallons)	County (gallons)			
1	12	17	N/A	3	63	4	120 K	62,372	18,683		0.6	
2	12	—		—	—	—	—	—	—		—	
3	12	17		4	64	4	120 K	62,170	12,526	8,500	0	
4	12	16		4	62	4	120 K	—	—	17,000	0	
5	12	16		4	60	5	150 K	31,039			0	
6	12	16		4	62	6	180 K	—			0.6	
7	12	15		3	60	8	240 K	49,710			0	
8	12	16		3	62	9	270 K	43,313	18,464		0	
9	12	—		—	—	—	—	—	—		0	
10	12	16		3	63	12	360 K	49,533	12,299	17,000	0	
11	12	16		3	60	11	330 K	37,516	12,134	17,000	0	
12	12	16		3	59	12	360 K	31,355	18,662		0	
13	12	16		3	27	12	360 K	25,200			0	
14	12	16		4	57	12	360 K	37,393			0	
15	23	27		4	58	11	330 K	24,858			0	
16								—	—		0	
Leachate Hauled Subtotal												

(1) If depth is greater than 27.6 Inches (2.3 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: _____

LEACHATE DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year) April, 1995

Date	Sump No. 3 (inches)	(1) Phase IV Riser	(1) Phase IV Piezometer	Phase III Riser	Sump No. 4 (Inches)	Depth In 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)	Initials
		(inches)	(inches)	(inches)				Contractor (gallons)	County (gallons)			
17	12	16	N/A	3	60	13	390 K	25,067			0	
18	12	16	-	3	28	14	420 K	37,557			0	
19	12	16	-	3	57	14	420 K	49,974			0	
20	12	16	-	3	56	14	420 K	49,808			0	
21	12	16	-	4	58	13	390 K	49,840			0	
22	12	15	-	3	56	12	360 K	43,897			0	
23	-	-		-	-	-	-				0	
24	12	16	-	4	59	14	420 K	49,824			0	
25	12	16	-	3	42	14	420 K	43,406	6,200		0.2	
26	12	16	-	3	55	13	390 K	37,284	12,360		0.2	
27	12	16	-	3	55	12	360 K	50,244	18,773		0.0	
28	12	16		4	48	11	330 K	43,359	6,200		0.0	
29	12	16		4	53	10	300 K	49,811	-		0.0	
30	-	-		-	-	-	-		-		-	
31												
Leachate Hauled Subtotal												

(1) If depth is greater than 27.6 inches (2.3 feet): Contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Leachate Hauled Month Total:

1120, 831

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4.28.95

Inspector: M. Mathew

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/No) <u>No</u></p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4-27-95

Inspector: M. Matthews

Rainfall: 0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes n/a: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4.26.95

Inspector: _____

Rainfall: 0.2

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/<u>No</u>)</p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4-25-95

Inspector: M. Matthews

Rainfall: 0.2

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4-24-95

Inspector: M. Matthews

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/No) <u>No</u></p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4.21.95

Inspector:

W. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes N/A: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

To Basin

☐ Severe

☐ A

☐ Moderate

☐ B

☐ Minor

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-20-95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes D/A: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4-19-95

Inspector: W. Matthews

Rainfall: 0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes N/A: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-18-95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒ No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-17-95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date: 4-14-95
Inspector: M. Mathews Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
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Runoff Type	To Basin									
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	<input type="checkbox"/> D									

Comments/Remedial Action: _____

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-13-95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-12-95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes N/A: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

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Effluent Pond

☒: Normal Operation.

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☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-11-95

Inspector:

M. Mattheis

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.
Contact supervisor immediately.

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<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM
EVALUATION REPORT
SOUTHEAST COUNTY LANDFILL

Date:

4-10-95

Inspector:

M. Mattheis

Rainfall:

0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action:

Date: 4-30-95

Time: 0700

Leachate Treated (gallons)	43548
Treated Effluent Stored (gallons)	43548
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff.

SAT.

Date: 4-29-95

Time: 0700

Leachate Treated (gallons)	45729
Treated Effluent Stored (gallons)	45729
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated

Date: 4/28/95

Time: 0700

Leachate Treated (gallons)	45,555
Treated Effluent Stored (gallons)	45,550?
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jess Duckworth B4042 Treated Eff

Date: 4-27-95

Time: 0700

Leachate Treated (gallons)	45000
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	45650

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff.

DATE: 4-26-95

TIME: 0700

Leachate Treated (gallons)	45,000
Treated Effluent Stored (gallons)	45,000
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jessi Duckworth B4042 Treated Eff.

Date: 4-25-95

Time: 0700

Leachate Treated (gallons)	45030
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	45650

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff

DATE: 4-24-95

TIME: 0700

Leachate Treated (gallons)	45,629
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	45,650

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff.

Sun

Date: 4-23-95

Time: 0700

Leachate Treated (gallons)	43677
Treated Effluent Stored (gallons)	43677
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth BY042 Treated Eff.

SAT

Date: 4-22-95

Time: 0700

Leachate Treated (gallons)	47,53
Treated Effluent Stored (gallons)	47,153
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff

DATE: 4-21-95

TIME: _____

Leachate Treated (gallons)	45,210
Treated Effluent Stored (gallons)	7,150
Treated Effluent Sprayed (gallons)	39060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated eff

DATE: 4-20-95

TIME: _____

Leachate Treated (gallons)	43,697
Treated Effluent Stored (gallons)	4,637
Treated Effluent Sprayed (gallons)	39060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff

Date: 4-19-95

Time: 0700

Leachate Treated (gallons)	44,428
Treated Effluent Stored (gallons)	5,332
Treated Effluent Sprayed (gallons)	39,096

Comments: _____

Operator Signature: _____

DATE: 4-18-95

TIME: _____

Leachate Treated (gallons)	47,511
Treated Effluent Stored (gallons)	8,451
Treated Effluent Sprayed (gallons)	39,060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jess Duckworth B4042 Treated Eff.

DATE: 4-17-95

TIME: 0700

Leachate Treated (gallons)	39,462
Treated Effluent Stored (gallons)	402
Treated Effluent Sprayed (gallons)	39060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff

Sun

Date: 4-16-95

Time: 0700

Leachate Treated (gallons)	47,190
Treated Effluent Stored (gallons)	47,190
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff.

Sat
Date: 4-15-95

Time: 0700

Leachate Treated (gallons)	54960
Treated Effluent Stored (gallons)	54960
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff

DATE: 4-14-95

TIME: 0700

Leachate Treated (gallons)	44,323
Treated Effluent Stored (gallons)	17,083
Treated Effluent Sprayed (gallons)	27,240

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: Spray By Totalizer

Operator Signature: Jesse Duckworth B4042 Treated Eff.

Thurs.

DATE: 4-13-95

TIME: 0700

Leachate Treated (gallons)	46 298
Treated Effluent Stored (gallons)	7238
Treated Effluent Sprayed (gallons)	39060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: Spray Amount by totalizer

Operator Signature: Jesse Duckworth B4042 Treated Eff

Wed

DATE: 4-12-95

TIME: _____

Leachate Treated (gallons)	45,223
Treated Effluent Stored (gallons)	6163
Treated Effluent Sprayed (gallons)	39060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 EFFluent Treated

Tues

DATE: 8-11-95

TIME: 4-

Leachate Treated (gallons)	45098
Treated Effluent Stored (gallons)	6038
Treated Effluent Sprayed (gallons)	39060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Mon

DATE: 4-10-95

TIME: _____

Leachate Treated (gallons)	43,448
Treated Effluent Stored (gallons)	4388
Treated Effluent Sprayed (gallons)	39,060

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: adjusted Time back to 30 min runs
previous runs were 35 mins. Prev-Tot. 45,570

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Sun

DATE: 8-9-95

TIME: _____

Leachate Treated (gallons)	43,319
Treated Effluent Stored (gallons)	43,319
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Spt

DATE: 4-8-95

TIME: _____

Leachate Treated (gallons)	44,203
Treated Effluent Stored (gallons)	44,203
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Fri
DATE: 8-7-95

TIME: _____

Leachate Treated (gallons)	46 217
Treated Effluent Stored (gallons)	46 217
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: RAIN NO Spray Time

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Thurs

DATE: 4-6-95

TIME: _____

Leachate Treated (gallons)	45 703
Treated Effluent Stored (gallons)	133
Treated Effluent Sprayed (gallons)	45,570

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Wed
DATE: 8-5-95

TIME: _____

Leachate Treated (gallons)	43 880
Treated Effluent Stored (gallons)	1690
Treated Effluent Sprayed (gallons)	45,570

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Tues

DATE: 4-04-95

TIME: _____

Leachate Treated (gallons)	42906
Treated Effluent Stored (gallons)	2664
Treated Effluent Sprayed (gallons)	45570

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jessi Duckworth B4042 Treated Effluent

Mon

DATE: 4-3-95

TIME: _____

Leachate Treated (gallons)	43 303
Treated Effluent Stored (gallons)	2,267
Treated Effluent Sprayed (gallons)	45,570

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Sup

DATE: 9-02-95

TIME: _____

Leachate Treated (gallons)	46 847
Treated Effluent Stored (gallons)	46 847
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

SAT

DATE: 8-01-95

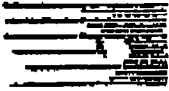
TIME: _____

Leachate Treated (gallons)	34904
Treated Effluent Stored (gallons)	34904
Treated Effluent Sprayed (gallons)	<u>0</u>

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Tease Duckworth B4042 Treated Effluent

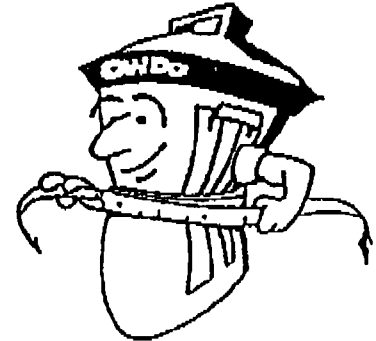


Hillsborough County

Department of Solid Waste • P.O. Box 1110
Tampa, FL 33601

Sender's Telephone Number: 276-29

24-Hour FAX Line — (813) 276-2960



"Together We CAN-DO It"

DATE: 5-26-95

TO: Kim Fnd

FAX: 744-6125 SUBJECT: _____

FROM: Patty Bury

COMMENTS (If Any): Hard Copy will follow

Total Pages Sent (including cover sheet) 3

Serving our customers with:

Residential & Commercial Collection Services • Curbside Recycling • Resource Recovery
Household Chemical Collection • Adopt-A-Road & Adopt-A-Shore
Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services
Community Collection Centers • Environmental Testing

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger
Phyllis Buseniky
Joe Chillum
Chris Hart
Jim Norman
Ed Turanchik
Sandra Helen Wilson



Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunter
Cretta Johnson
Jimmie Keel
Robert Taylor

May 25, 1995

Mr. Kim Ford, P.E.
Solid Waste Program
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

The Hillsborough County Department of Solid Waste (DSW) has received the Florida Department of Environmental Protection's (DEP) May 12, 1995 correspondence concerning the DSW's leachate management efforts at the County's Southeast County Landfill (Landfill).

As discussed in our most recent additional information submittal for the Landfill permit renewal, the DSW has proposed to install a temporary piezometer in Phase IV of the Landfill to serve as a measurement device for determining the leachate level in the Landfill in the area of greatest clay settlement. While the DSW can appreciate the DEP's suggestion to install the piezometer as soon as possible, the DSW requests that the DEP first review and approve the piezometer design and installation location. The design and location information will be provided to the DEP, along with the final additional information submittal, on May 26, 1995.

The second issue raised by the DEP's May 12, 1995 letter pertains to the spray irrigation quantities for the month of March 1995. The construction permit for the Leachate Treatment and Reclamation Facility (LTRF) does not obligate the DSW to spray irrigate a specific quantity of treated leachate effluent. However, the DSW does intend to maximize the amount of effluent which is disposed of through spray irrigation versus off-site hauling. The DSW does not spray irrigate on Saturdays or Sundays since the LTRF contractor is not on site. This accounts for 8 days of 0 gallons per day (gpd). No spray irrigation was conducted on March 8, 1995 due to a rain event.

Mr. Kim Ford

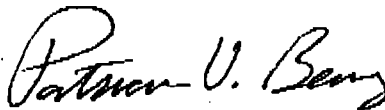
May 25, 1995

Page Two

On March 22 and 23, 1995, no spray irrigation occurred since a contractor representative was not present for those days. Only 12,000 gpd were spray irrigated on March 24, 1995 due to the low level in the effluent basin. In addition, the DSW is required to manage the spray irrigation system in accordance with the Landfill filling sequence. During March 1995, the filling activities for Phase IV interfered with the operation of irrigation zones 7 and 8 due to the location of the working phase and sprinkler heads. This situation limited the amount of spray irrigation for the month.

Should you require additional information concerning this matter or if I can be of further assistance, please call at 276-2908.

Sincerely,



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

xc: Matt Matthews, DSW
Steve Hamilton, SCS
Steve Morgan, DEP
Paul Schipfer, EPC



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

May 12, 1995

Ms. Patricia Berry
Department of Solid Waste
Hillsborough County
Post Office Box 1110
Tampa, FL 33601

RE: Southeast County Landfill
Leachate Management
Pending Permit #SO29-256427, Hillsborough County

Dear Ms. Berry:

Thank you for your recent May 8, 1995 letter and information regarding leachate management. DEP is encouraged by results of the County's efforts. However, recent information provided by your consultant, SCS Engineers, indicates that the depth of leachate at the time your permit is renewed should be no greater than 1.7 feet (20 inches) and there is no device currently installed to accurately measure the depth of leachate over the liner. SCS has proposed to install a piezometer in Phase IV at a location furthest from the LCRS. DEP suggests that the County propose to install the piezometer as soon as possible to verify that the landfill will be in compliance with the engineer's design at the time of renewal. DEP will expedite its review to prevent further delays.

The records provided show many days when there is little or no rain but leachate is not sprayed. Please provide a detailed explanation for each day in March that less than 50,000 gpd were sprayed (for 22 out of 31 days, including 0 gpd sprayed on 11 of those 22 days).

If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Program
Division of Waste Management

KBF/ab

cc: Daryl Smith, HCDSW
Robert Gardner, P.E., SCS Engineers
Paul Schipfer, HCEPC
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa

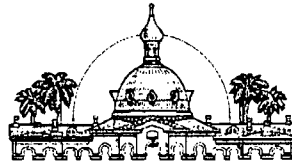
HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

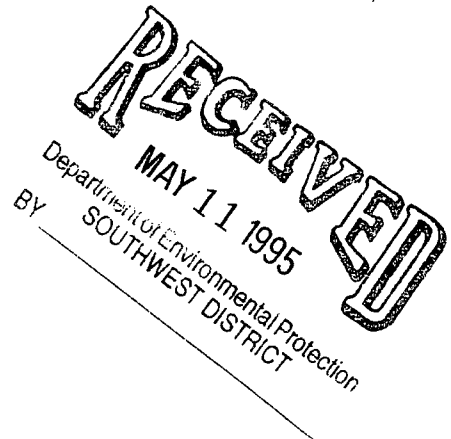
Dottie Berger
Phyllis Busansky
Joe Chillura
Chris Harr
Jim Norman
Ed Turanchik
Sandra Helen Wilson



Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson
Jimmie Keel
Robert Taylor

May 8, 1995



Mr. Kim Ford, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the January, February and March 1995 Water Balance Report Forms and Field Data Entry Forms for the Landfill. In addition, the DSW is providing the March 1995 effluent field data forms for the Landfill.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

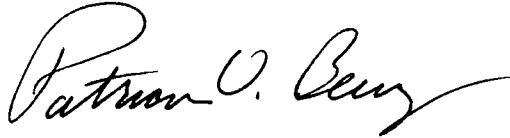
As can be seen from the March 1995 Leachate Water Balance Report, SCS Engineers, the DSW's landfill engineering consultant, has estimated that the leachate level within the Landfill, based on the Phase IV Riser leachate level, is approximately 16.8 inches over the liner. The Phase III Riser is averaging 4.8 inches of leachate.

As referenced in the DSW's March 6, 1995 correspondence to the DEP, the Public Utilities Department requested a temporary reduction in leachate disposal at the Falkenburg Wastewater Treatment Facility during February 1995. The reduction was not required for the entire three week period as originally envisioned and the DSW was able to resume the regular leachate disposal rate beginning March 1, 1995. The reduction in leachate removal during March 1995 is attributed to leachate availability.

Mr. Kim Ford
May 8, 1995
Page Two

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

A handwritten signature in black ink, appearing to read "Patricia V. Berry". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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

Attachments

xc: Matt Matthews, DSW
Steve Hamilton, SCS
Steve Morgan, DEP
Paul Schipfer, EPC

LEACHATE WATER BALANCE REPORT FORM
JANUARY, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Area (acres)			Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Change in Effl. Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Landfill Evapor. (gal.)
	closed	active	int.													
1	23.2	5.0	92.2	0.0	51.6	NR	NR	NR	NR	NR	0	0	NR	0	0	0
2	23.2	5.0	92.2	0.0	67.2	NR	NR	0	409,000	NR	63,000	0	NR	0	0	0
3	23.2	5.0	92.2	0.0	70.8	NR	NR	85,000	345,000	NR	126,000	0	NR	0	0	0
4	23.2	5.0	92.2	0.3	75.6	NR	NR	108,000	305,000	NR	126,000	0	NR	0	0	0
5	23.2	5.0	92.2	0.0	69.6	NR	NR	96,000	288,000	NR	125,000	0	NR	0	0	0
6	23.2	5.0	92.2	0.0	64.8	NR	NR	308,000	259,000	NR	136,000	0	NR	0	0	0
7	23.2	5.0	92.2	1.7	64.8	NR	NR	NR	NR	NR	144,000	0	NR	0	0	0
8	23.2	5.0	92.2	0.0	64.8	NR	NR	NR	NR	NR	0	0	NR	0	0	0
9	23.2	5.0	92.2	0.0	66.0	NR	NR	97,000	288,000	NR	126,000	0	NR	0	0	0
10	23.2	5.0	92.2	0.0	62.4	NR	NR	126,000	259,000	NR	126,000	0	NR	0	0	0
11	23.2	5.0	92.2	0.0	64.8	NR	NR	97,000	259,000	NR	125,000	0	NR	0	0	0
12	23.2	5.0	92.2	0.0	63.6	NR	NR	234,000	230,000	NR	119,000	0	NR	0	0	0
13	23.2	5.0	92.2	0.4	60.0	NR	NR	154,000	345,000	NR	125,000	0	NR	0	0	0
14	23.2	5.0	92.2	1.1	60.0	NR	NR	85,000	374,000	NR	125,000	0	NR	0	0	0
15	23.2	5.0	92.2	0.2	58.8	NR	NR	NR	NR	NR	0	0	NR	0	0	0
16	23.2	5.0	92.2	0.0	67.2	NR	NR	103,000	334,000	NR	121,000	0	NR	0	0	0
17	23.2	5.0	92.2	0.0	68.4	NR	NR	93,000	317,000	NR	121,000	0	NR	0	0	0
18	23.2	5.0	92.2	0.0	63.6	NR	NR	104,000	288,000	NR	115,000	0	NR	0	0	0
19	23.2	5.0	92.2	0.0	63.6	NR	NR	162,000	276,000	NR	122,000	0	NR	0	0	0
20	23.2	5.0	92.2	0.0	58.8	NR	NR	165,000	317,000	NR	122,000	0	NR	0	0	0
21	23.2	5.0	92.2	0.0	57.6	NR	NR	23,000	360,000	NR	124,000	0	NR	0	0	0
22	23.2	5.0	92.2	0.0	63.6	NR	NR	NR	NR	NR	0	0	NR	0	0	0
23	23.2	5.0	92.2	0.0	69.6	NR	NR	109,000	259,000	NR	109,000	0	NR	0	0	0
24	23.2	5.0	92.2	0.0	58.8	NR	NR	166,000	259,000	NR	122,000	0	NR	0	0	0
25	23.2	5.0	92.2	0.0	58.8	NR	NR	162,000	302,000	NR	124,000	0	NR	0	0	0
26	23.2	5.0	92.2	0.0	56.4	NR	NR	130,000	340,000	NR	124,000	0	NR	0	0	0
27	23.2	5.0	92.2	0.0	56.4	NR	NR	125,000	345,000	NR	125,000	0	NR	0	0	0
28	23.2	5.0	92.2	0.0	55.2	NR	NR	210,000	345,000	NR	123,000	0	NR	0	0	0
29	23.2	5.0	92.2	0.0	56.4	NR	NR	NR	NR	NR	0	0	NR	0	0	0
30	23.2	5.0	92.2	0.1	54.0	NR	NR	39,000	432,000	NR	125,000	0	NR	0	0	0
31	23.2	5.0	92.2	0.8	54.0	NR	NR	123,000	345,000	NR	123,000	0	NR	0	0	0
Total				4.60	1927.2	0.0	0	3,104,000	7,880,000	0	3,166,000	0	0	0	0	0
Daily Avg				0.15	62.2	ERR	ERR	124,000	315,000	ERR	102,000	0	ERR	0	0	0

Notes:

1. NR, No Records.
2. Column II, total area with waste is 120.4 acres (Phases IIV).
3. Column V, estimated from depth in Phase IV Piezometer.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XV, 80.8% of the daily values from Columns XI, XIII and XIV.

FIELD DATA ENTRY FORM
JANUARY, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Active Area (ac.)	Sump No. 3 (in.)	Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Hauled		Leachate Recirc. (gal.)	Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
								Contractor (gal.)	County (gal.)					
1	5.0	51.6	NR	NR	NR	NR	0.0	0	0	0	0	NR	0	NR
2	5.0	67.2	NR	NR	NR	NR	0.0	0	63,000	0	0	NR	0	14.2
3	5.0	70.8	NR	NR	NR	NR	0.0	68,582	57,086	0	0	NR	0	12.0
4	5.0	75.6	NR	NR	NR	NR	0.3	68,599	57,148	0	0	NR	0	10.6
5	5.0	69.6	NR	NR	NR	NR	0.0	68,291	56,808	0	0	NR	0	10.0
6	5.0	64.8	NR	NR	NR	NR	0.0	68,537	66,999	0	0	NR	0	9.0
7	5.0	64.8	NR	NR	NR	NR	1.7	86,522	57,007	0	0	NR	0	NR
8	5.0	64.8	NR	NR	NR	NR	0.0	0	0	0	0	NR	0	NR
9	5.0	66.0	NR	NR	NR	NR	0.0	68,386	57,387	0	0	NR	0	10.0
10	5.0	62.4	NR	NR	NR	NR	0.0	68,546	57,244	0	0	NR	0	9.0
11	5.0	64.8	NR	NR	NR	NR	0.0	68,428	56,975	0	0	NR	0	9.0
12	5.0	63.6	NR	NR	NR	NR	0.0	68,528	50,632	0	0	NR	0	8.0
13	5.0	60.0	NR	48.0	66.0	NR	0.4	68,514	56,868	0	0	NR	0	12.0
14	5.0	60.0	NR	48.0	60.0	NR	1.1	68,466	56,957	0	0	NR	0	13.0
15	5.0	58.8	NR	NR	NR	NR	0.2	0	0	0	0	NR	0	NR
16	5.0	67.2	NR	NR	NR	NR	0.0	63,800	56,928	0	0	NR	0	11.6
17	5.0	68.4	NR	52.8	72.0	NR	0.0	64,490	56,919	0	0	NR	0	11.0
18	5.0	63.6	NR	40.8	69.6	NR	0.0	64,675	50,546	0	0	NR	0	10.0
19	5.0	63.6	NR	37.2	67.2	NR	0.0	64,818	57,073	0	0	NR	0	9.6
20	5.0	58.8	NR	44.4	63.6	NR	0.0	65,504	56,321	0	0	NR	0	11.0
21	5.0	57.6	NR	42.0	62.4	NR	0.0	67,492	56,622	0	0	NR	0	12.5
22	5.0	63.6	NR	NR	NR	NR	0.0	0	0	0	0	NR	0	NR
23	5.0	69.6	NR	51.6	72.0	NR	0.0	53,061	56,134	0	0	NR	0	9.0
24	5.0	58.8	NR	44.4	57.6	NR	0.0	80,150	42,250	0	0	NR	0	9.0
25	5.0	58.8	NR	42.0	60.0	NR	0.0	68,018	56,186	0	0	NR	0	10.5
26	5.0	56.4	NR	40.8	58.8	NR	0.0	67,774	56,145	0	0	NR	0	11.8
27	5.0	56.4	NR	39.6	49.3	NR	0.0	67,975	56,608	0	0	NR	0	12.0
28	5.0	55.2	NR	39.6	49.3	NR	0.0	67,555	55,900	0	0	NR	0	12.0
29	5.0	56.4	NR	NR	NR	NR	0.0	0	0	0	0	NR	0	NR
30	5.0	54.0	NR	37.2	44.4	NR	0.1	68,589	56,592	0	0	NR	0	15.0
31	5.0	54.0	NR	39.6	60.0	NR	0.8	67,392	55,292	0	0	NR	0	12.0
1	First day of next month. Record depth in 500,000 gal tank only.													12.0

Notes:

1. NR, No Records.
2. Column VI, if level exceeds 27.6 inches (2.3 ft.), leachate withdrawal from landfill must increase.
3. Columns IX and X, quantities calculated from truck weight.
4. Columns XIII and XIV, quantities from flow meters.

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

Day	Area (acres)			Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	XII Change in Effl. Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recirculation (gal.)	XV Landfill Evapor. (gal.)
	closed	active	int.													
1	23.2	5.0	92.2	0.0	56.4	NR	NR	124,000	345,000	0	124,000	0	0	0	0	0
2	23.2	5.0	92.2	0.0	56.4	NR	NR	114,000	345,000	0	129,000	0	0	0	0	0
3	23.2	5.0	92.2	0.0	51.6	NR	NR	134,000	331,000	51,000	140,000	0	27,000	24,000	0	19,000
4	23.2	5.0	92.2	0.1	51.6	NR	NR	302,000	274,000	45,000	135,000	0	45,000	0	0	0
5	23.2	5.0	92.2	0.2	50.4	NR	NR	NR	NR	50,000	0	0	50,000	0	0	0
6	23.2	5.0	92.2	0.0	50.4	NR	NR	192,000	345,000	41,000	151,000	0	(8,000)	49,000	0	40,000
7	23.2	5.0	92.2	0.0	49.2	NR	NR	119,000	345,000	53,000	153,000	0	51,000	2,000	0	2,000
8	23.2	5.0	92.2	0.0	51.6	NR	NR	124,000	259,000	29,000	153,000	0	(29,000)	58,000	0	47,000
9	23.2	5.0	92.2	0.0	46.8	NR	NR	30,000	202,000	29,000	116,000	0	(10,000)	39,000	0	32,000
10	23.2	5.0	92.2	0.0	45.6	NR	NR	242,000	86,000	44,000	140,000	0	39,000	5,000	0	4,000
11	23.2	5.0	92.2	0.0	21.6	NR	NR	371,000	144,000	44,000	109,000	0	44,000	0	0	0
12	23.2	5.0	92.2	0.4	19.2	NR	NR	NR	NR	45,000	0	0	45,000	0	0	0
13	23.2	5.0	92.2	0.5	12.0	NR	NR	139,000	317,000	40,000	128,000	0	40,000	0	0	0
14	23.2	5.0	92.2	0.3	21.6	NR	NR	143,000	288,000	44,000	128,000	0	44,000	0	0	0
15	23.2	5.0	92.2	0.0	24.0	NR	NR	252,000	259,000	49,000	117,000	0	(11,000)	60,000	0	48,000
16	23.2	5.0	92.2	0.0	12.0	NR	NR	99,000	345,000	41,000	116,000	0	(11,000)	52,000	0	42,000
17	23.2	5.0	92.2	0.0	15.6	NR	NR	80,000	288,000	44,000	122,000	0	(8,000)	52,000	0	42,000
18	23.2	5.0	92.2	0.0	22.8	NR	NR	300,000	202,000	46,000	152,000	0	46,000	0	0	0
19	23.2	5.0	92.2	0.0	21.6	NR	NR	NR	NR	44,000	0	0	44,000	0	0	0
20	23.2	5.0	92.2	0.0	22.8	NR	NR	168,000	259,000	45,000	152,000	0	45,000	0	0	0
21	23.2	5.0	92.2	0.9	14.4	NR	NR	140,000	230,000	45,000	152,000	0	(7,000)	52,000	0	42,000
22	23.2	5.0	92.2	0.0	22.8	NR	NR	110,000	173,000	45,000	152,000	0	(7,000)	52,000	0	42,000
23	23.2	5.0	92.2	0.0	22.8	NR	NR	153,000	86,000	30,000	37,000	0	(16,000)	46,000	0	37,000
24	23.2	5.0	92.2	0.0	15.6	NR	NR	134,000	173,000	37,000	68,000	0	(9,000)	46,000	0	37,000
25	23.2	5.0	92.2	0.0	12.0	NR	NR	229,000	202,000	45,000	97,000	0	45,000	0	0	0
26	23.2	5.0	92.2	0.0	8.4	NR	NR	107,000	288,000	49,000	0	0	49,000	0	0	0
27	23.2	5.0	92.2	0.0	10.8	NR	NR	145,000	345,000	41,000	104,000	0	(19,000)	60,000	0	48,000
28	23.2	5.0	92.2	0.0	12.0	NR	NR	112,000	345,000	44,000	67,000	0	(9,000)	53,000	0	43,000
Total				2.40	822.0	0.0	0	4,063,000	6,476,000	1,120,000	2,942,000	0	470,000	650,000	0	525,000
Daily Avg				0.09	29.4	ERR	ERR	163,000	259,000	40,000	105,000	0	17,000	23,000	0	19,000

Notes:

1. NR, No Records.
2. Column II, total area with waste is 120.4 acres (Phases II/V).
3. Column V, estimated from depth in Phase IV Piezometer.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XV, 80.8% of the daily values from Columns XI, XIII, and XIV.

FIELD DATA ENTRY FORM
FEBRUARY, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Active Area (ac.)	Sump No. 3 (in.)	Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Hauled		Leachate Recirc. (gal.)	Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
								Contractor (gal.)	County (gal.)					
1	5.0	56.4	73.2	39.6	49.2	NR	0.0	67,562	56,333	0	0	0	0	12.0
2	5.0	56.4	73.2	37.2	58.8	NR	0.0	72,774	56,121	0	0	0	0	12.0
3	5.0	51.6	72.0	30.0	43.2	NR	0.0	90,743	49,209	0	0	51,230	24,266	11.5
4	5.0	51.6	73.2	36.0	58.8	NR	0.1	79,379	55,825	0	0	44,800	0	9.5
5	5.0	50.4	0.0	NR	NR	NR	0.2	0	0	0	0	50,080	0	NR
6	5.0	50.4	61.2	34.8	54.0	NR	0.0	95,892	55,511	0	0	41,020	49,158	12.0
7	5.0	49.2	61.2	34.8	54.0	NR	0.0	96,984	55,944	0	0	52,570	2,373	12.0
8	5.0	51.6	61.2	34.8	52.8	NR	0.0	96,987	56,026	0	0	28,730	57,672	9.0
9	5.0	46.8	61.2	31.2	50.4	NR	0.0	59,821	56,158	0	0	28,730	38,610	7.0
10	5.0	45.6	61.2	33.6	51.6	NR	0.0	83,953	55,671	0	0	44,470	5,180	3.0
11	5.0	21.6	72.0	1.2	27.6	NR	0.0	96,440	12,400	0	0	44,470	0	5.0
12	5.0	19.2	0.0	NR	NR	NR	0.4	0	0	0	0	44,638	0	NR
13	5.0	12.0	73.2	9.6	26.4	NR	0.5	96,641	30,931	0	0	40,497	0	11.0
14	5.0	21.6	72.0	10.8	13.2	NR	0.3	71,943	55,970	0	0	44,008	0	10.0
15	5.0	24.0	72.0	9.6	13.2	NR	0.0	59,963	56,642	0	0	48,714	59,887	9.0
16	5.0	12.0	68.4	8.4	22.8	NR	0.0	59,984	55,836	0	0	41,236	52,237	12.0
17	5.0	15.6	67.2	7.2	22.8	NR	0.0	59,974	62,043	0	0	44,001	52,237	10.0
18	5.0	22.8	66.0	6.0	24.0	NR	0.0	96,586	55,802	0	0	46,302	0	7.0
19	5.0	21.6	0.0	NR	NR	NR	0.0	0	0	0	0	43,632	0	NR
20	5.0	22.8	61.2	9.6	13.2	NR	0.0	96,121	55,565	0	0	45,327	0	9.0
21	5.0	14.4	61.2	7.2	26.4	NR	0.9	96,079	55,871	0	0	45,327	52,200	8.0
22	5.0	22.8	70.8	7.2	25.2	NR	0.0	96,177	55,892	0	0	44,511	52,200	6.0
23	5.0	22.8	69.6	6.0	13.2	NR	0.0	12,000	24,888	0	0	29,882	45,675	3.0
24	5.0	15.6	60.0	3.6	19.2	NR	0.0	30,022	37,989	0	0	37,292	45,675	6.0
25	5.0	12.0	64.8	3.6	15.6	NR	0.0	66,009	30,903	0	0	45,425	0	7.0
26	5.0	8.4	60.0	4.8	15.6	NR	0.0	0	0	0	0	49,269	0	10.0
27	5.0	10.8	69.6	4.8	16.8	NR	0.0	72,492	31,339	0	0	40,974	59,850	12.0
28	5.0	12.0	69.6	4.8	16.8	NR	0.0	35,868	31,273	0	0	44,400	53,150	12.0
29														
30														
31														
1	First day of next month. Record depth in 500,000 gal tank only.													12.0

Notes:

1. NR, No Records.
2. Column VI, if level exceeds 27.6 inches (2.3 ft.), leachate withdrawal from landfill must increase.
3. Columns IX and X, quantities calculated from truck weight.
4. Columns XIII and XIV, quantities from flow meters.

LEACHATE WATER BALANCE REPORT FORM
MARCH, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Area (acres)			Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leach./Effl. Hauled (gal.)	Leachate Recirculation (gal.)	Change in Effl. Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Landfill Evapor. (gal.)
	final	active	int.													
1	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	138,000	345,000	45,000	122,000	0	9,000	36,000	0	29,000
2	23.2	5.0	92.2	Trace	12.0	16.8	1,249,000	109,000	317,000	44,000	122,000	0	(2,000)	46,000	0	37,000
3	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	129,000	259,000	42,000	116,000	0	(10,000)	52,000	0	42,000
4	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	229,000	230,000	49,000	123,000	0	49,000	0	0	0
5	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	75,000	288,000	46,000	0	0	46,000	0	0	0
6	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	95,000	317,000	43,000	109,000	0	(9,000)	52,000	0	42,000
7	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	130,000	259,000	49,000	110,000	0	(20,000)	52,000	17,000	56,000
8	23.2	5.0	92.2	0.7	12.0	16.8	1,249,000	138,000	230,000	40,000	98,000	0	40,000	0	0	0
9	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	97,000	230,000	45,000	109,000	0	6,000	39,000	0	32,000
10	23.2	5.0	92.2	0.0	12.0	15.6	1,160,000	97,000	173,000	46,000	109,000	0	4,000	42,000	0	34,000
11	23.2	5.0	92.2	0.0	12.0	15.6	1,160,000	241,000	115,000	36,000	103,000	0	36,000	0	0	0
12	23.2	5.0	92.2	0.0	12.0	NR	NR	NR	NR	45,000	0	0	45,000	0	0	0
13	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	125,000	173,000	45,000	79,000	0	6,000	39,000	0	32,000
14	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	123,000	173,000	45,000	79,000	0	(11,000)	39,000	17,000	45,000
15	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	123,000	173,000	45,000	78,000	0	(11,000)	39,000	17,000	45,000
16	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	124,000	173,000	45,000	79,000	0	(10,000)	46,000	9,000	44,000
17	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	90,000	173,000	45,000	74,000	0	5,000	40,000	0	32,000
18	23.2	5.0	92.2	0.9	12.0	16.8	1,249,000	146,000	144,000	47,000	98,000	0	47,000	0	0	0
19	23.2	5.0	92.2	0.2	12.0	16.8	1,249,000	232,000	144,000	45,000	0	0	45,000	0	0	0
20	23.2	5.0	92.2	0.0	12.0	NR	NR	NR	NR	49,000	80,000	0	(8,000)	57,000	0	46,000
21	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	103,000	202,000	53,000	80,000	0	(16,000)	60,000	9,000	56,000
22	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	38,000	173,000	NR	67,000	0	NR	0	0	0
23	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	61,000	144,000	NR	61,000	0	NR	0	9,000	7,000
24	23.2	5.0	92.2	0.0	25.2	30.0	3,486,000	46,000	144,000	39,000	37,000	0	27,000	12,000	0	10,000
25	23.2	5.0	92.2	0.0	12.0	20.4	1,424,000	104,000	115,000	47,000	0	0	47,000	0	0	0
26	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	129,000	173,000	43,000	0	0	43,000	0	0	0
27	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	120,000	259,000	45,000	75,000	0	(29,000)	57,000	17,000	60,000
28	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	98,000	259,000	46,000	81,000	0	(13,000)	59,000	0	48,000
29	23.2	5.0	92.2	0.1	12.0	16.8	1,249,000	91,000	230,000	45,000	75,000	0	(24,000)	60,000	9,000	56,000
30	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	64,000	202,000	46,000	75,000	0	(22,000)	59,000	9,000	55,000
31	23.2	5.0	92.2	0.0	12.0	15.6	1,160,000	90,000	144,000	43,000	81,000	0	(3,000)	46,000	0	37,000
Total				1.90	385.2	500.4	38,366,000	3,385,000	5,961,000	1,303,000	2,320,000	0	267,000	932,000	113,000	845,000
Daily Avg				0.06	12.4	17.3	1,323,000	117,000	206,000	45,000	75,000	0	9,000	30,000	4,000	27,000

Revised by BWP, 4/13/95.

Notes:

1. NR, No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Column V, estimated from depth in Phase IV riser.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XV, 80.8% of the daily values from Columns XI, XIII and XIV.

FIELD DATA ENTRY FORM
MARCH, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Active Area (ac.)	Sump No. 3 (in.)	Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate/Effluent Hauled Contractor (gal.)	County (gal.)	Leachate Recirc. (gal.)	Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
1	5.0	12.0	69.6	4.8	16.8	NR	0.0	71,983	50,127	0	0	44,690	35,888	12.0
2	5.0	12.0	64.8	4.8	16.8	NR	Trace	71,942	49,896	0	0	44,289	45,675	11.0
3	5.0	12.0	63.6	4.8	16.8	NR	0.0	66,228	49,776	0	0	41,876	52,200	9.0
4	5.0	12.0	64.8	4.8	16.8	NR	0.0	72,492	50,269	0	0	48,540	0	8.0
5	5.0	12.0	66	4.8	16.8	NR	0.0	0	0	0	0	45,858	0	10.0
6	5.0	12.0	61.2	4.8	16.8	NR	0.0	72,176	37,126	0	0	43,460	52,200	11.0
7	5.0	12.0	63.6	4.8	16.8	NR	0.0	71,837	37,683	0	17,000	48,824	52,200	9.0
8	5.0	12.0	63.6	4.8	16.8	NR	0.7	66,277	31,741	0	0	39,997	0	8.0
9	5.0	12.0	64.8	4.8	16.8	NR	0.0	71,929	37,295	0	0	45,000	39,150	8.0
10	5.0	12.0	62.4	3.6	15.6	NR	0.0	71,979	37,428	0	0	45,504	42,413	6.0
11	5.0	12.0	64.8	4.8	15.6	NR	0.0	72,260	30,916	0	0	35,723	0	4.0
12	5.0	12.0	NR	NR	NR	NR	0.0	0	0	0	0	44,761	0	NR
13	5.0	12.0	66	4.8	16.8	NR	0.0	60,762	18,627	0	0	45,259	39,150	6.0
14	5.0	12.0	62.4	4.8	16.8	NR	0.0	60,034	18,657	0	17,000	44,702	39,150	6.0
15	5.0	12.0	60	4.8	16.8	NR	0.0	59,753	18,685	0	17,000	44,820	39,150	6.0
16	5.0	12.0	63.6	4.8	16.8	NR	0.0	60,134	18,645	0	8,500	44,820	46,070	6.0
17	5.0	12.0	63.6	4.8	16.8	NR	0.0	35,938	37,780	0	0	45,150	39,690	6.0
18	5.0	12.0	62.4	4.8	16.8	NR	0.9	61,240	36,980	0	0	47,352	0	5.0
19	5.0	12.0	66	3.6	16.8	NR	0.2	0	0	0	0	44,948	0	5.0
20	5.0	12.0	NR	NR	NR	NR	0.0	61,523	18,688	0	0	49,103	56,784	NR
21	5.0	12.0	67.2	4.8	16.8	NR	0.0	61,118	18,552	0	8,500	52,616	59,956	7.0
22	5.0	12.0	63.6	4.8	16.8	NR	0.0	60,605	6,300	0	0	NR	0	6.0
23	5.0	12.0	62.4	4.8	16.8	NR	0.0	60,971	0	0	8,500	NR	0	5.0
24	5.0	25.2	62.4	8.4	30.0	NR	0.0	36,526	0	0	0	38,585	12,000	5.0
25	5.0	12.0	64.8	6.0	20.4	NR	0.0	0	0	0	0	46,559	0	4.0
26	5.0	12.0	66	4.8	16.8	NR	0.0	0	0	0	0	42,552	0	6.0
27	5.0	12.0	64.8	4.8	16.8	NR	0.0	62,157	12,565	0	17,000	45,367	57,415	9.0
28	5.0	12.0	62.4	4.8	16.8	NR	0.0	62,470	18,730	0	0	45,540	58,600	9.0
29	5.0	12.0	61.2	4.8	16.8	NR	0.1	62,161	12,478	0	8,500	45,080	59,815	8.0
30	5.0	12.0	60	4.8	16.8	NR	0.0	62,356	12,430	0	8,500	46,342	59,300	7.0
31	5.0	12.0	60	3.6	15.6	NR	0.0	62,516	18,752	0	0	43,108	45,570	5.0
1	First day of next month. Record depth in 500,000 gal tank only.													3.8

Notes:

1. NR, No Records.
2. Column VI, if level exceeds 27.6 inches (2.3 ft.), leachate withdrawal from landfill must increase.
3. Columns IX and X, quantities calculated from truck weight.
4. Columns XIII and XIV, quantities from flow meters.

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

(Month/Year) March 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1		44,690	35,887.5				8,802.5		N	
2		44,289	45,675				1,386		N	
3		41,876	52,200				10,324		N	
4		48,540	—				48,540		—	
5		45,858	—				45,858		—	
6		43,460	52,200				8,740		N	
7		48,824	52,200			17,000	3,376		N	
8		39,997	—				39,997	10:45	—	
9		est. 45,000	39,150				5,850		N	
10		45,504	42,412.5				3,091.5		N	
11		35,723	—				35,723		—	
12		44,761	—				44,761		—	
13		45,259	39,150				6,109		N	
14		44,702	39,150			17,000	5,552		N	
15		44,820	39,150			17,000	5,670		N	
16		44,820	46,010			8,500			N	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: _____

EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL
 (Month/Year) _____

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17		45,150	39,690				5,460	—	N	
18		47,352	—				47,352	4pm	—	
19		44,948	—				44,948	6am	—	
20		49,103	56,784				—	—	N	
21		52,616	59,956			8,500	—	—	N	
22		NO Report	—					—	—	
23		No Report	—			8,500	—	—	—	
24		38,585	12,000				26,581	—	N	
25		46,559	—				46,559	—	—	
26		42,552	—				42,552	—	—	
27		45,367	57,415			17,000	—	—	N	
28		45,540	58,600				—	—	N	
29		45,080	59,815			8,500	—	4pm	N	
30		46,342	59,300			8,500	—	—	N	
31		43,108	45,570				2,462	—	N	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: _____

Wednesday

DATE: 3-01-95

TIME: _____

Leachate Treated (gallons)	44690
Treated Effluent Stored (gallons)	8,802.5
Treated Effluent Sprayed (gallons)	35887.5

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 5
minutes run = 3262.5 gal sprayed

Comments: zone #6 ran 15 mins @ 72.5 % = 3262.5

Operator Signature: Jessi Duckworth B4042 Leachate Flow Meter

Thursday

DATE: 3-02-95

TIME: _____

Leachate Treated (gallons)	44289
Treated Effluent Stored (gallons)	-1,386
Treated Effluent Sprayed (gallons)	45,675

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 7 zones
minutes run = 45,675 gal sprayed

Comments: also 14,000 gals used for dust control by
waste management.

Operator Signature: Jesse Duckworth B4042 LEACHATE Flow
Treated

Friday

DATE: 3-03-95

TIME: _____

Leachate Treated (gallons)	41,876
Treated Effluent Stored (gallons)	-10,324
Treated Effluent Sprayed (gallons)	52,200

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 30
minutes run = 52,200 gal sprayed

Comments: _____

Operator Signature: Jess Duckworth B4042 Leachate Flow Treated

saturday

DATE: 3-04-95

TIME: _____

Leachate Treated (gallons)	48,540
Treated Effluent Stored (gallons)	48,540
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x ~~0~~ % = ~~0~~ x ~~0~~
minutes run = ~~0~~ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Leachate Flow TREATED

Sunday

DATE: 3-05-98

TIME: _____

Leachate Treated (gallons)	45,858
Treated Effluent Stored (gallons)	45,858
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x ~~0~~ % = ~~0~~ x ~~0~~
minutes run = ~~0~~ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Leachate Flow Treated

Monday

DATE: 3-06-95

TIME: _____

Leachate Treated (gallons)	43,460
Treated Effluent Stored (gallons)	-8,740
Treated Effluent Sprayed (gallons)	52,200

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 30
minutes run = 52,200 gal sprayed

Comments: _____

Operator Signature: Jeane Duckworth B4042 Leachate Flow Treated.

Tuesday

DATE: 3-07-95

TIME: _____

Leachate Treated (gallons)	48,824
Treated Effluent Stored (gallons)	3,376
Treated Effluent Sprayed (gallons)	52,200

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 30
minutes run = 52,200 gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Leachate Flow Treated

Wednesday

DATE: 3-08-95

TIME: _____

Leachate Treated (gallons)	39,997
Treated Effluent Stored (gallons)	
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x 0 % = 0 x 0
minutes run = 0 gal sprayed

Comments: RAIN

Operator Signature: Jesse Duckworth B4042 Leachate Flow Treated

Thursday

DATE: 3-09-95

TIME:

Leachate Treated (gallons)	est → 45,000	RECORDED
Treated Effluent Stored (gallons)	5,850	
Treated Effluent Sprayed (gallons)	39,150	

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 30
minutes run = 39,150 gal sprayed

Comments: 6 zones ran waste management personnel

Operator Signature: Jesse Duckworth B4042 Leachate Flow Treatment
see operator on flow totalizer problem.

Friday

DATE: 3-10-95

TIME: _____

Leachate Treated (gallons)	45,504
Treated Effluent Stored (gallons)	3,091.5
Treated Effluent Sprayed (gallons)	42,412.5

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 180
minutes run = 39,150 gal sprayed

Comments: 15 mins into zone 7 shut down system
because of waste management personnel.

Operator Signature: Jesse Duckworth B4042 TREATED EFFluent

5A+

DATE: 3-11-95

TIME: _____

Leachate Treated (gallons)	35,723
Treated Effluent Stored (gallons)	35,723
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x 0 % = 0 x 0
minutes run = 0 gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Sun.

DATE: 3-12-95

TIME: _____

Leachate Treated (gallons)	44,761
Treated Effluent Stored (gallons)	44,761
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x 0 % = 0 x 0
minutes run = 0 gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated EFFluent

man

DATE: 3-13-95

TIME: _____

Leachate Treated (gallons)	45,259
Treated Effluent Stored (gallons)	6,109
Treated Effluent Sprayed (gallons)	39,150

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 180
minutes run = 39,150 gal sprayed

Comments: 14,000 gals dust control via waste management tanker

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Thurs

DATE: 3-14-95

TIME: _____

Leachate Treated (gallons)	44,702
Treated Effluent Stored (gallons)	5,552
Treated Effluent Sprayed (gallons)	39,150

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 180
minutes run = 39,150 gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Wek.

DATE: 3-15-95

TIME: _____

Leachate Treated (gallons)	44,820
Treated Effluent Stored (gallons)	5,670
Treated Effluent Sprayed (gallons)	39,150

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 180
minutes run = 39,150 gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Effluent

Thurs.

DATE: 3-16-95

TIME: _____

Leachate Treated (gallons)	44,820
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	46,070

Pump Capacity 300 gal/min x 72.5 % = 217.5 x 180
minutes run = 39,150 gal sprayed

Comments: Zone #7 ran by Totalizer 6,920 gals

Operator Signature: Jesse Duckworth Treated EFFluent

Friday

DATE: 3-17-95

TIME: _____

Leachate Treated (gallons)	45,150
Treated Effluent Stored (gallons)	5,460
Treated Effluent Sprayed (gallons)	39,690

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: TOTALIZER Reading 39690 sprayed (Rain)
14,000 J.A. County Trucks.

Operator Signature: Jesse Duckworth B4042 TREATED EFFluent

Saturday

Date: 3-18-95

Time: _____

Leachate Treated (gallons)	47,352
Treated Effluent Stored (gallons)	47,352
Treated Effluent Sprayed (gallons)	0

Comments: 37,130 hauled by County Trucks

Operator Signature: Jesse Duckworth B4042 Treated EFFluent

Sunday
Date: 3-19-95

Time: _____

Leachate Treated (gallons)	44,948
Treated Effluent Stored (gallons)	44,948
Treated Effluent Sprayed (gallons)	0

Comments: _____

Operator Signature: Jesse Duckworth B4042 TREATED EFFluent

Monday

Date: 3-20-95

Time: _____

Leachate Treated (gallons)	49,103
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	56,784

Comments: 7 zones fully RAW #8 7,494.5 zones 1-7
4,322.5 sprayed #8

(adjusting Run times Target 7,500 gal/zone

Operator Signature: Jesse Duckworth B4042 TREATED EFFluent

Tuesday

Date: 3-21-95

Time: _____

Leachate Treated (gallons)	52,616
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	59,956

Comments: 8 zones sprayed Totalizer
(adjusting run times Target 7500 gal/zone)

Operator Signature: Jesse Duckworth B4042 TREATED EFFluent

Friday

Date: 3-24-95

Time: 0700

Leachate Treated (gallons)	38,585
Treated Effluent Stored (gallons)	26581
Treated Effluent Sprayed (gallons)	12,000

Comments: 12,004 gals. sprayed. 3 Tanker Loads
hauled from basin by Contract Carrier.

Operator Signature: Jose Duckworth B4042 Treated EFF.

SAT

DATE: 3-25-95

TIME: 0700

Leachate Treated (gallons)	46,559
Treated Effluent Stored (gallons)	46,559
Treated Effluent Sprayed (gallons)	<u>0</u>

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B54042 Treated EFF

Sunday

DATE: 3-26-95

TIME: 0700

Leachate Treated (gallons)	42,552
Treated Effluent Stored (gallons)	42,552
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: _____

Operator Signature: Jesse Duckworth B4042 Treated Eff

N/b.N.

DATE: 3-27-95

TIME: 0700

Leachate Treated (gallons)	45,367
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	57415

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: Spray By Totalizer

Operator Signature: Jesse Duckworth B4042 Treated Eff

Tues

DATE: 3-28-95

TIME: 0700

Leachate Treated (gallons)	45,540
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	58600

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: Spray By TOTALIZER

Operator Signature: Jeen Duckworth BA042 Treated Eff.

Wed,

DATE: 3-29-95

TIME: 0700

Leachate Treated (gallons)	45,080
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	59,815

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: SPRAY by Total. Zer 6,500 gals dust
Control/Waste management

Operator Signature: Jesse Duckworth B4042 Treated Eff

Thursday 30
DATE: 3-29-95

TIME: 0700

Leachate Treated (gallons)	46342
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	59,300

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: Spray by Totalizer 13,000 gals
dust control / waste management

Operator Signature: Jesse Duckworth B4042 Treated Eff

DATE: 3/31/95

TIME: _____

Leachate Treated (gallons)	43108
Treated Effluent Stored (gallons)	2462
Treated Effluent Sprayed (gallons)	45,570

Pump Capacity 300 gal/min x _____ % = _____ x _____
minutes run = _____ gal sprayed

Comments: Spray by Totalizer

Operator Signature: Jesse Duckworth B4042 Treated Effluent

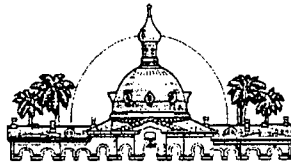
HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger
Phyllis Busansky
Joe Chillura
Chris Hart
Jim Norman
Ed Turanchik
Sandra Helen Wilson



Senior Assistant County Administrator
Patricia Bean


Assistant County Administrators
Edwin Hunzeker
Cretta Johnson
Jimmie Keel
Robert Taylor

April 27, 1995

D.E.P.

MAY 08 1995

SOUTHWEST DISTRICT
TAMPA


Mr. Kim Ford, P.E.
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast County Landfill
Permit No. S029-158504
Leachate Quantity Report

Dear Mr. Ford:

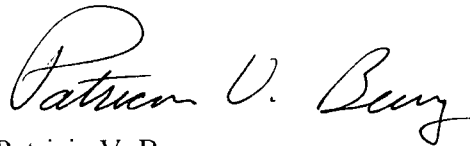
The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of from the Southeast County Landfill. A summary sheet for each day is provided along with the quantities of leachate that were disposed of by the DSW and the Contractor.

This data represents the leachate/effluent managed through off-site disposal at a County wastewater treatment facility. Please refer to the Leachate Water Balance Report Form (provided under separate cover) for leachate managed through on-site treatment and disposal.

Page Two
Mr. Kim Ford
April 27, 1995

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1995	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
				0
JAN 1	0	0	0	0
JAN 2	63,000	0	0	63,000
JAN 3	57,086	68,582	0	125,668
JAN 4	57,148	68,299	0	125,447
JAN 5	56,808	68,291	0	125,099
JAN 6	56,999	68,537	0	125,536
JAN 7	57,007	86,522	0	143,529
JAN 8	0	0	0	0
JAN 9	57,387	68,386	0	125,773
JAN 10	57,244	68,546	0	125,790
JAN 11	56,975	68,428	0	125,403
JAN 12	56,958	68,528	0	125,486
JAN 13	56,868	68,514	0	125,382
JAN 14	56,957	68,472	0	125,429
JAN 15	0	0	0	0
JAN 16	56,928	63,800	0	120,728
JAN 17	56,915	64,490	0	121,405
JAN 18	50,546	64,675	0	115,221
JAN 19	57,073	64,818	0	121,891
JAN 20	56,321	65,504	0	121,825
JAN 21	56,622	67,492	0	124,114
JAN 22	0	0	0	0
JAN 23	56,134	53,061	0	109,195
JAN 24	42,250	0	0	42,250
JAN 25	56,186	68,018	0	124,204
JAN 26	56,145	67,774	0	123,919
JAN 27	56,608	67,975	0	124,583
JAN 28	55,900	67,554	0	123,454
JAN 29	56,492	65,889	0	122,381
JAN 30	55,292	67,392	0	122,684
JAN 31			0	
	=====	=====	=====	=====
TOTAL	1,459,849	1,619,547	0	3,079,396

DATE 1995	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
FEB 1	62,366	67,556	0	129,922
FEB 2	56,121	72,819	0	128,940
FEB 3	49,209	90,743	0	139,952
FEB 4	43,782	79,379	0	123,161
FEB 5	0	0	0	0
FEB 6	55,511	95,892	0	151,403
FEB 7	55,944	96,984	0	152,928
FEB 8	56,036	96,987	0	153,023
FEB 9	56,158	59,825	0	115,983
FEB 10	55,671	83,953	0	139,624
FEB 11	12,400	96,440	0	108,840
FEB 12	0	0	0	0
FEB 13	30,931	96,642	0	127,573
FEB 14	55,970	71,943	0	127,913
FEB 15	56,642	59,963	0	116,605
FEB 16	55,836	59,984	0	115,820
FEB 17	62,043	59,974	0	122,017
FEB 18	55,802	0	0	55,802
FEB 19	0	0	0	0
FEB 20	55,565	96,121	0	151,686
FEB 21	55,871	96,079	0	151,950
FEB 22	55,892	96,177	0	152,069
FEB 23	24,888	12,000	0	36,888
FEB 24	37,989	30,022	0	68,011
FEB 25	30,903	6,609	0	37,512
FEB 26	0	0	0	0
FEB 27	31,339	72,492	0	103,831
FEB 28	31,273	36,678	0	67,951
	=====	=====	=====	=====
MTHLY TOTAL	1,144,142	1,635,262	0	2,779,404

DATE 1995	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
MAR 1	52,191	71,983	0	124,174
MAR 2	49,896	71,942	0	121,838
MAR 3	49,776	66,228	0	116,004
MAR 4	50,269	72,492	0	122,761
MAR 5	0	0	0	0
MAR 6	37,126	72,176	0	109,302
MAR 7	37,683	71,837	17,000	126,520
MAR 8	31,641	66,281	0	97,922
MAR 9	37,295	71,929	0	109,224
MAR 10	37,428	71,999	0	109,427
MAR 11	30,916	72,260	0	103,176
MAR 12	0	0	0	0
MAR 13	18,627	60,762	0	79,389
MAR 14	18,657	60,034	17,000	95,691
MAR 15	18,685	59,753	17,000	95,438
MAR 16	18,645	60,134	8,500	87,279
MAR 17	37,780	25,938	0	63,718
MAR 18	36,980	61,240	0	98,220
MAR 19	18,688	0	0	18,688
MAR 20	0	61,523	0	61,523
MAR 21	18,522	61,118	8,500	88,140
MAR 22	6,300	60,605	0	66,905
MAR 23	0	60,971	8,500	69,471
MAR 24	0	36,526	0	36,526
MAR 25	0	23,962	0	23,962
MAR 26	0	0	0	0
MAR 27	12,565		17,000	29,565
MAR 28	18,730	62,157	0	80,887
MAR 29	12,478	62,470	8,500	83,448
MAR 30	12,430	62,161	8,500	83,091
MAR 31	18,752	0	0	18,752
	=====	=====	=====	=====
MTHLY TOTAL	682,060	1,528,481	110,500	2,321,041

04-27-95 10:36AM FROM SCS ENGINEERS TAMPA TO 7446125

P001/004

FAX COVER

TO:

DATE:

4/27/95

NAME:

Mr. Kim Ford

COMPANY NAME:

FOEP

FAX NUMBER:

744-6125

PHONE NUMBER:

744-6166, 382

SCS ENGINEERS

Environmental Consultants

3012 U.S. Highway 301 North
Suite 700
Tampa, Florida 33619Phone 813 621-0080
FAX 813 623-6757

FROM:

Larry Ruiz

JOB/OVERHEAD NUMBER:

0992016.35

NUMBER OF PAGES:

4**COMMENTS:**Please call if you have any questions
Thanks forAttached as requested:
Balance report for January, February, March
with modified values for column XV.

LEACHATE WATER BALANCE REPORT FORM
JANUARY, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I Day	II Area (acres)			III Rainfall (in.)	IV Sump No. 3 (in.)	V Est. Depth Over Liner (in.)	VI Est. Landfill Storage (gal.)	VII Leachate Pumped to LTRF (gal.)	VIII Leachate in 500K Tank (gal.)	IX Leachate Treated at LTRF (gal.)	X Total Leachate Hauled (gal.)	XI Leachate Recirculation (gal.)	XII Change in Effl. Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recirculation (gal.)	XV Landfill Evapor. (gal.)
	closed	active	int.													
1	23.2	5.0	92.2	0.0	61.6	NR	NR	NR	NR	NR	0	0	NR	0	0	0
2	23.2	5.0	92.2	0.0	67.2	NR	NR	0	409,000	NR	83,000	0	NR	0	0	0
3	23.2	5.0	92.2	0.0	70.8	NR	NR	85,000	345,000	NR	128,000	0	NR	0	0	0
4	23.2	5.0	92.2	0.3	75.6	NR	NR	108,000	305,000	NR	126,000	0	NR	0	0	0
5	23.2	5.0	92.2	0.0	69.6	NR	NR	96,000	288,000	NR	125,000	0	NR	0	0	0
6	23.2	5.0	92.2	0.0	64.8	NR	NR	308,000	259,000	NR	136,000	0	NR	0	0	0
7	23.2	5.0	92.2	1.7	64.8	NR	NR	NR	NR	NR	144,000	0	NR	0	0	0
8	23.2	5.0	92.2	0.0	64.8	NR	NR	NR	NR	NR	0	0	NR	0	0	0
9	23.2	5.0	92.2	0.0	66.0	NR	NR	97,000	288,000	NR	128,000	0	NR	0	0	0
10	23.2	5.0	92.2	0.0	62.4	NR	NR	126,000	259,000	NR	126,000	0	NR	0	0	0
11	23.2	5.0	92.2	0.0	64.8	NR	NR	97,000	259,000	NR	125,000	0	NR	0	0	0
12	23.2	5.0	92.2	0.0	63.6	NR	NR	234,000	230,000	NR	119,000	0	NR	0	0	0
13	23.2	5.0	92.2	0.4	60.0	NR	NR	154,000	345,000	NR	123,000	0	NR	0	0	0
14	23.2	5.0	92.2	1.1	60.0	NR	NR	85,000	374,000	NR	125,000	0	NR	0	0	0
15	23.2	5.0	92.2	0.2	58.8	NR	NR	NR	NR	NR	0	0	NR	0	0	0
16	23.2	5.0	92.2	0.0	67.2	NR	NR	103,000	334,000	NR	121,000	0	NR	0	0	0
17	23.2	5.0	92.2	0.0	68.4	NR	NR	93,000	317,000	NR	121,000	0	NR	0	0	0
18	23.2	5.0	92.2	0.0	63.6	NR	NR	104,000	288,000	NR	115,000	0	NR	0	0	0
19	23.2	5.0	92.2	0.0	63.6	NR	NR	162,000	276,000	NR	122,000	0	NR	0	0	0
20	23.2	5.0	92.2	0.0	58.8	NR	NR	165,000	317,000	NR	122,000	0	NR	0	0	0
21	23.2	5.0	92.2	0.0	57.6	NR	NR	23,000	360,000	NR	124,000	0	NR	0	0	0
22	23.2	5.0	92.2	0.0	63.6	NR	NR	NR	NR	NR	0	0	NR	0	0	0
23	23.2	5.0	92.2	0.0	69.8	NR	NR	109,000	253,000	NR	109,000	0	NR	0	0	0
24	23.2	5.0	92.2	0.0	58.8	NR	NR	166,000	253,000	NR	122,000	0	NR	0	0	0
25	23.2	5.0	92.2	0.0	58.8	NR	NR	162,000	302,000	NR	124,000	0	NR	0	0	0
26	23.2	5.0	92.2	0.0	56.4	NR	NR	130,000	340,000	NR	124,000	0	NR	0	0	0
27	23.2	5.0	92.2	0.0	56.4	NR	NR	125,000	345,000	NR	125,000	0	NR	0	0	0
28	23.2	5.0	92.2	0.0	55.2	NR	NR	210,000	345,000	NR	123,000	0	NR	0	0	0
29	23.2	5.0	92.2	0.0	56.4	NR	NR	NR	NR	NR	0	0	NR	0	0	0
30	23.2	5.0	92.2	0.1	54.0	NR	NR	39,000	432,000	NR	125,000	0	NR	0	0	0
31	23.2	5.0	92.2	0.8	54.0	NR	NR	123,000	345,000	NR	123,000	0	NR	0	0	0
Total				4.60	1927.2	0.0		0	3,104,000	7,880,000	0	3,166,000	0	0	0	0
Daily Avg				0.15	62.2	ERR		ERR	124,000	315,000	ERR	102,000	0	ERR	0	0

Notes

- NR = No Records
- Column II, total area with waste is 120.4 acres (Phases IV).
- Column V, estimated from depth in Phase IV Piezometer.
- Column VI, estimated from column V and approximate volume with top of clay elevation at 113.5 feet.
- Column VII, estimated from Column IX - Column X + Change in Storage of 500,000 gal. tank.
- Columns IX and XIII, quantities from flow meters.
- Column X, quantity calculated from truck weight.
- Column XV, 80 % of the daily values from Columns X, XIII and XIV.

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

Notes

1. NR. No Records
2. Column I, total area with waste is 120.6 acres (Phases V).
3. Column V, estimated from depth in Phase V Piezometer.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX - Column X - Change in Storage of 500,000 gallons.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XIV, 80-85% of the daily values from Columns X, XIII, and XIV.

LEACHATE WATER BALANCE REPORT FORM
MARCH, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II		III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Area (acres)		Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leach. Eff. Hauled (gal.)	Leachate Recirculation (gal.)	Change in Effl. Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	12.0	1,249,000	138,000	345,000	45,000	122,000	0	9,000	36,000	0	29,000
2	23.2	5.0	92.2	Trace	12.0	1,249,000	109,000	317,000	44,000	122,000	0	(2,000)	46,000	0	37,000
3	23.2	5.0	92.2	0.0	12.0	1,249,000	129,000	259,000	42,000	116,000	0	(10,000)	52,000	0	42,000
4	23.2	5.0	92.2	0.0	12.0	1,249,000	229,000	230,000	49,000	123,000	0	49,000	0	0	0
5	23.2	5.0	92.2	0.0	12.0	1,249,000	75,000	288,000	46,000	0	0	46,000	0	0	0
6	23.2	5.0	92.2	0.0	12.0	1,249,000	95,000	317,000	43,000	109,000	0	(9,000)	52,000	0	42,000
7	23.2	5.0	92.2	0.0	12.0	1,249,000	130,000	259,000	49,000	110,000	0	(20,000)	52,000	17,000	56,000
8	23.2	5.0	92.2	0.7	12.0	1,249,000	138,000	230,000	40,000	98,000	0	40,000	0	0	0
9	23.2	5.0	92.2	0.0	12.0	1,249,000	97,000	230,000	45,000	109,000	0	6,000	39,000	0	32,000
10	23.2	5.0	92.2	0.0	12.0	1,160,000	97,000	173,000	46,000	109,000	0	4,000	42,000	0	34,000
11	23.2	5.0	92.2	0.0	12.0	1,160,000	241,000	115,000	36,000	103,000	0	38,000	0	0	0
12	23.2	5.0	92.2	0.0	12.0	NR	NR	NR	45,000	0	0	45,000	0	0	0
13	23.2	5.0	92.2	0.0	12.0	1,249,000	125,000	173,000	45,000	79,000	0	8,000	39,000	0	32,000
14	23.2	5.0	92.2	0.0	12.0	1,249,000	123,000	173,000	45,000	79,000	0	(11,000)	39,000	17,000	45,000
15	23.2	5.0	92.2	0.0	12.0	1,249,000	123,000	173,000	45,000	78,000	0	(11,000)	39,000	17,000	45,000
16	23.2	5.0	92.2	0.0	12.0	1,249,000	124,000	173,000	45,000	79,000	0	(10,000)	46,000	9,000	44,000
17	23.2	5.0	92.2	0.0	12.0	1,249,000	90,000	173,000	45,000	74,000	0	5,000	40,000	0	32,000
18	23.2	5.0	92.2	0.9	12.0	1,249,000	146,000	144,000	47,000	98,000	0	47,000	0	0	0
19	23.2	5.0	92.2	0.2	12.0	1,249,000	232,000	144,000	45,000	0	0	45,000	0	0	0
20	23.2	5.0	92.2	0.0	12.0	NR	NR	NR	49,000	80,000	0	(8,000)	57,000	0	46,000
21	23.2	5.0	92.2	0.0	12.0	1,249,000	103,000	202,000	53,000	80,000	0	(16,000)	60,000	9,000	56,000
22	23.2	5.0	92.2	0.0	12.0	1,249,000	38,000	173,000	NR	87,000	0	NR	0	0	0
23	23.2	5.0	92.2	0.0	12.0	1,249,000	61,000	144,000	NR	81,000	0	NR	0	9,000	7,000
24	23.2	5.0	92.2	0.0	12.0	1,249,000	46,000	144,000	39,000	37,000	0	27,000	12,000	0	10,000
25	23.2	5.0	92.2	0.0	25.2	3,486,000	104,000	115,000	47,000	0	0	47,000	0	0	0
26	23.2	5.0	92.2	0.0	12.0	1,249,000	129,000	173,000	43,000	0	0	43,000	0	0	0
27	23.2	5.0	92.2	0.0	12.0	1,249,000	120,000	259,000	45,000	75,000	0	(29,000)	57,000	17,000	60,000
28	23.2	5.0	92.2	0.0	12.0	1,249,000	98,000	259,000	46,000	81,000	0	(13,000)	59,000	0	48,000
29	23.2	5.0	92.2	0.1	12.0	1,249,000	91,000	230,000	45,000	75,000	0	(24,000)	60,000	9,000	56,000
30	23.2	5.0	92.2	0.0	12.0	1,249,000	64,000	202,000	48,000	75,000	0	(22,000)	59,000	9,000	55,000
31	23.2	5.0	92.2	0.0	12.0	1,160,000	90,000	144,000	43,000	81,000	0	(3,000)	46,000	0	37,000
Total				1.90	385.2	500.4	3,385,000	5,361,000	1,303,000	2,320,000	0	267,000	932,000	113,000	845,000
Daily Avg				0.06	2.4	17.3	1,323,000	117,000	206,000	45,000	0	9,000	30,000	4,000	27,000

Revised by BWP, 4/13/95.

- Notes:
1. NF 1, Record
 2. Column II, total area with waste is 120.4 acres (Phases I-IV)
 3. Column V, estimated from depth in Phase IV riser.
 4. Column VI, estimated from column V and approximate volume with top of Phase IV elevation at 118.5 feet.
 5. Column VII, estimated from Column IX + Column X - Change in Storage of 500,000 gal. tank
 6. Columns IX and XIII, quantities from flow meters.
 7. Column X, quantity calculated from truck weight.
 8. Column XV, 80-85% of the daily values from Columns X, XI and XIV.

LETTER OF TRANSMITTALTO Kim Ford, P.E.
FDEPDATE 4/24/95
JOB NO. 0990018.35ATTENTION _____
Re: SELF permit renewal
Application

WE ARE SENDING YOU

- ☒ Attached ☐ Under separate cover via _____
- ☐ Shop drawings ☐ Prints
- ☐ Copy of letter ☐ Change order
- the following items: ☐ Plans ☐ Samples
- ☐ Specifications ☐ _____

D.E.P.**APR 24 1995**SOUTHWEST DISTRICT
TAMPA

COPIES	DATE	DESCRIPTION
1	—	March Balance Report (leachate)
1	—	March " " Data entry (leachate/effluent)
2	—	February Field Data form (Effluent)
2	—	March Field Data form (Effluent)

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
- ☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
- ☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
- ☐ For review and comment ☐ _____
- ☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

Please call if you have any questions, thanks.Lucy Fin

COPY TO

file

SIGNED: _____

FIELD DATA ENTRY FORM
MARCH, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Active Area (ac.)	Sump No. 3 (in.)	Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate/Effluent Hauled		Leachate Recirc. (gal.)	Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
1	5.0	12.0	69.6	4.8	16.8	NR	0.0	71,983	50,127	0	0	44,690	35,888	12.0
2	5.0	12.0	64.8	4.8	16.8	NR	Trace	71,942	49,896	0	0	44,289	45,675	11.0
3	5.0	12.0	63.6	4.8	16.8	NR	0.0	66,228	49,776	0	0	41,876	52,200	9.0
4	5.0	12.0	64.8	4.8	16.8	NR	0.0	72,492	50,269	0	0	48,540	0	8.0
5	5.0	12.0	66	4.8	16.8	NR	0.0	0	0	0	0	45,858	0	10.0
6	5.0	12.0	61.2	4.8	16.8	NR	0.0	72,176	37,126	0	0	43,460	52,200	11.0
7	5.0	12.0	63.6	4.8	16.8	NR	0.0	71,837	37,683	0	17,000	48,824	52,200	9.0
8	5.0	12.0	63.6	4.8	16.8	NR	0.7	66,277	31,741	0	0	39,997	0	8.0
9	5.0	12.0	64.8	4.8	16.8	NR	0.0	71,929	37,295	0	0	45,000	39,150	8.0
10	5.0	12.0	62.4	3.6	15.6	NR	0.0	71,979	37,428	0	0	45,504	42,413	6.0
11	5.0	12.0	64.8	4.8	15.6	NR	0.0	72,260	30,916	0	0	35,723	0	4.0
12	5.0	12.0	NR	NR	NR	NR	0.0	0	0	0	0	44,761	0	NR
13	5.0	12.0	66	4.8	16.8	NR	0.0	60,762	18,627	0	0	45,259	39,150	6.0
14	5.0	12.0	62.4	4.8	16.8	NR	0.0	60,034	18,657	0	17,000	44,702	39,150	6.0
15	5.0	12.0	60	4.8	16.8	NR	0.0	59,753	18,685	0	17,000	44,820	39,150	6.0
16	5.0	12.0	63.6	4.8	16.8	NR	0.0	60,134	18,645	0	8,500	44,820	46,070	6.0
17	5.0	12.0	63.6	4.8	16.8	NR	0.0	35,938	37,780	0	0	45,150	39,690	6.0
18	5.0	12.0	62.4	4.8	16.8	NR	0.9	61,240	36,980	0	0	47,352	0	5.0
19	5.0	12.0	66	3.6	16.8	NR	0.2	0	0	0	0	44,948	0	5.0
20	5.0	12.0	NR	NR	NR	NR	0.0	61,523	18,688	0	0	49,103	56,784	NR
21	5.0	12.0	67.2	4.8	16.8	NR	0.0	61,118	18,552	0	8,500	52,616	59,956	7.0
22	5.0	12.0	63.6	4.8	16.8	NR	0.0	60,605	6,300	0	0	NR	0	6.0
23	5.0	12.0	62.4	4.8	16.8	NR	0.0	60,971	0	0	8,500	NR	0	5.0
24	5.0	25.2	62.4	8.4	30.0	NR	0.0	36,526	0	0	0	38,585	12,000	5.0
25	5.0	12.0	64.8	6.0	20.4	NR	0.0	0	0	0	0	46,559	0	4.0
26	5.0	12.0	66	4.8	16.8	NR	0.0	0	0	0	0	42,552	0	6.0
27	5.0	12.0	64.8	4.8	16.8	NR	0.0	62,157	12,565	0	17,000	45,367	57,415	9.0
28	5.0	12.0	62.4	4.8	16.8	NR	0.0	62,470	18,730	0	0	45,540	58,600	9.0
29	5.0	12.0	61.2	4.8	16.8	NR	0.1	62,161	12,478	0	8,500	45,080	59,815	8.0
30	5.0	12.0	60	4.8	16.8	NR	0.0	62,356	12,430	0	8,500	46,342	59,300	7.0
31	5.0	12.0	60	3.6	15.6	NR	0.0	62,516	18,752	0	0	43,108	45,570	5.0
1	First day of next month. Record depth in 500,000 gal tank only.													3.8

Notes:

1. NR, No Records.
2. Column VI, if level exceeds 27.6 inches (2.3 ft.), leachate withdrawal from landfill must increase.
3. Columns IX and X, quantities calculated from truck weight.
4. Columns XIII and XIV, quantities from flow meters.

LEACHATE WATER BALANCE REPORT FORM
MARCH, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Area (acres)			Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leach./Effl. Hauled (gal.)	Leachate Recirculation (gal.)	Change in Effl. Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Landfill Evapor. (gal.)
	final	active	int.													
1	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	138,000	345,000	45,000	122,000	0	9,000	36,000	0	186,000
2	23.2	5.0	92.2	Trace	12.0	16.8	1,249,000	109,000	317,000	44,000	122,000	0	(2,000)	46,000	0	186,000
3	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	129,000	259,000	42,000	116,000	0	(10,000)	52,000	0	186,000
4	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	229,000	230,000	49,000	123,000	0	49,000	0	0	186,000
5	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	75,000	288,000	46,000	0	0	46,000	0	0	186,000
6	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	95,000	317,000	43,000	109,000	0	(9,000)	52,000	0	186,000
7	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	130,000	259,000	49,000	110,000	0	(20,000)	52,000	17,000	186,000
8	23.2	5.0	92.2	0.7	12.0	16.8	1,249,000	138,000	230,000	40,000	98,000	0	40,000	0	0	186,000
9	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	97,000	230,000	45,000	109,000	0	6,000	39,000	0	186,000
10	23.2	5.0	92.2	0.0	12.0	15.6	1,160,000	97,000	173,000	46,000	109,000	0	4,000	42,000	0	186,000
11	23.2	5.0	92.2	0.0	12.0	15.6	1,160,000	241,000	115,000	36,000	103,000	0	36,000	0	0	186,000
12	23.2	5.0	92.2	0.0	12.0	NR	NR	NR	NR	45,000	0	0	45,000	0	0	186,000
13	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	125,000	173,000	45,000	79,000	0	6,000	39,000	0	186,000
14	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	123,000	173,000	45,000	79,000	0	(11,000)	39,000	17,000	186,000
15	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	123,000	173,000	45,000	78,000	0	(11,000)	39,000	17,000	186,000
16	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	124,000	173,000	45,000	79,000	0	(10,000)	46,000	9,000	186,000
17	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	90,000	173,000	45,000	74,000	0	5,000	40,000	0	186,000
18	23.2	5.0	92.2	0.9	12.0	16.8	1,249,000	146,000	144,000	47,000	98,000	0	47,000	0	0	186,000
19	23.2	5.0	92.2	0.2	12.0	16.8	1,249,000	232,000	144,000	45,000	0	0	45,000	0	0	186,000
20	23.2	5.0	92.2	0.0	12.0	NR	NR	NR	NR	49,000	80,000	0	(8,000)	57,000	0	186,000
21	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	103,000	202,000	53,000	80,000	0	(16,000)	60,000	9,000	186,000
22	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	38,000	173,000	NR	67,000	0	NR	0	0	186,000
23	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	61,000	144,000	NR	61,000	0	NR	0	9,000	186,000
24	23.2	5.0	92.2	0.0	25.2	30.0	3,486,000	46,000	144,000	39,000	37,000	0	27,000	12,000	0	186,000
25	23.2	5.0	92.2	0.0	12.0	20.4	1,424,000	104,000	115,000	47,000	0	0	47,000	0	0	186,000
26	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	129,000	173,000	43,000	0	0	43,000	0	0	186,000
27	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	120,000	259,000	45,000	75,000	0	(29,000)	57,000	17,000	186,000
28	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	98,000	259,000	46,000	81,000	0	(13,000)	59,000	0	186,000
29	23.2	5.0	92.2	0.1	12.0	16.8	1,249,000	91,000	230,000	45,000	75,000	0	(24,000)	60,000	9,000	186,000
30	23.2	5.0	92.2	0.0	12.0	16.8	1,249,000	64,000	202,000	46,000	75,000	0	(22,000)	59,000	9,000	186,000
31	23.2	5.0	92.2	0.0	12.0	15.6	1,160,000	90,000	144,000	43,000	81,000	0	(3,000)	46,000	0	186,000
Total				1.90	385.2	500.4	38,366,000	3,385,000	5,961,000	1,303,000	2,320,000	0	267,000	932,000	113,000	5,766,000
Daily Avg				0.06	12.4	17.3	1,323,000	117,000	206,000	45,000	75,000	0	9,000	30,000	4,000	186,000

Revised by Beres Powell, 4/13/95.

Notes:

1. NR, No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Column V, estimated from depth in Phase IV riser.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XV, 80.8% of the average daily from Columns III and XIII.

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

Day	Area (acres)			Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recir- culation (gal.)	Change in Effl. Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recir- culation (gal.)	Landfill Evapor. (gal.)
	closed	active	int.													
1	23.2	5.0	92.2	0.0	56.4	NR	NR	124,000	345,000	0	124,000	0	0	0	0	245,000
2	23.2	5.0	92.2	0.0	56.4	NR	NR	114,000	345,000	0	129,000	0	0	0	0	245,000
3	23.2	5.0	92.2	0.0	51.6	NR	NR	133,000	331,000	51,000	140,000	0	27,000	24,000	0	245,000
4	23.2	5.0	92.2	0.1	51.6	NR	NR	302,000	274,000	45,000	135,000	0	45,000	0	0	245,000
5	23.2	5.0	92.2	0.2	50.4	NR	NR	NR	NR	50,000	0	0	50,000	0	0	245,000
6	23.2	5.0	92.2	0.0	50.4	NR	NR	192,000	345,000	41,000	151,000	0	(8,000)	49,000	0	245,000
7	23.2	5.0	92.2	0.0	49.2	NR	NR	119,000	345,000	53,000	153,000	0	51,000	2,000	0	245,000
8	23.2	5.0	92.2	0.0	51.6	NR	NR	124,000	259,000	29,000	153,000	0	(29,000)	58,000	0	245,000
9	23.2	5.0	92.2	0.0	46.8	NR	NR	30,000	202,000	29,000	116,000	0	(10,000)	39,000	0	245,000
10	23.2	5.0	92.2	0.0	45.6	NR	NR	242,000	86,000	44,000	140,000	0	39,000	5,000	0	245,000
11	23.2	5.0	92.2	0.0	21.6	NR	NR	371,000	144,000	44,000	109,000	0	44,000	0	0	245,000
12	23.2	5.0	92.2	0.4	19.2	NR	NR	NR	NR	45,000	0	0	45,000	0	0	245,000
13	23.2	5.0	92.2	0.5	12.0	NR	NR	139,000	317,000	40,000	128,000	0	40,000	0	0	245,000
14	23.2	5.0	92.2	0.3	21.6	NR	NR	143,000	288,000	44,000	128,000	0	44,000	0	0	245,000
15	23.2	5.0	92.2	0.0	24.0	NR	NR	252,000	259,000	49,000	117,000	0	(11,000)	60,000	0	245,000
16	23.2	5.0	92.2	0.0	12.0	NR	NR	99,000	345,000	41,000	116,000	0	(11,000)	52,000	0	245,000
17	23.2	5.0	92.2	0.0	15.6	NR	NR	80,000	288,000	44,000	122,000	0	(8,000)	52,000	0	245,000
18	23.2	5.0	92.2	0.0	22.8	NR	NR	300,000	202,000	46,000	152,000	0	46,000	0	0	245,000
19	23.2	5.0	92.2	0.0	21.6	NR	NR	NR	NR	44,000	0	0	44,000	0	0	245,000
20	23.2	5.0	92.2	0.0	22.8	NR	NR	168,000	259,000	45,000	152,000	0	45,000	0	0	245,000
21	23.2	5.0	92.2	0.9	14.4	NR	NR	140,000	230,000	45,000	152,000	0	(7,000)	52,000	0	245,000
22	23.2	5.0	92.2	0.0	22.8	NR	NR	110,000	173,000	45,000	152,000	0	(7,000)	52,000	0	245,000
23	23.2	5.0	92.2	0.0	22.8	NR	NR	153,000	86,000	30,000	37,000	0	(16,000)	46,000	0	245,000
24	23.2	5.0	92.2	0.0	15.6	NR	NR	134,000	173,000	37,000	68,000	0	(9,000)	46,000	0	245,000
25	23.2	5.0	92.2	0.0	12.0	NR	NR	229,000	202,000	45,000	97,000	0	45,000	0	0	245,000
26	23.2	5.0	92.2	0.0	8.4	NR	NR	107,000	288,000	49,000	0	0	49,000	0	0	245,000
27	23.2	5.0	92.2	0.0	10.8	NR	NR	145,000	345,000	41,000	104,000	0	(19,000)	60,000	0	245,000
28	23.2	5.0	92.2	0.0	12.0	NR	NR	112,000	345,000	44,000	67,000	0	(9,000)	53,000	0	245,000
Total				2.40	822.0	0.0	0	4,062,000	6,476,000	1,120,000	2,942,000	0	470,000	650,000	0	6,860,000
Daily Avg				0.09	29.4	ERR	ERR	162,000	259,000	40,000	105,000	0	17,000	23,000	0	245,000

Notes:

1. NR, No Records.
2. Column II, total area with waste is 120.4 acres (Phases IIV).
3. Column V, estimated from depth in Phase IV Piezometer.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XV, 80.8% of the average daily from Columns III and XIII.

LEACHATE WATER BALANCE REPORT FORM
JANUARY, 1995
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV
Day	Area (acres)			Rainfall (in.)	Sump No. 3 (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Change in Effl. Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Landfill Evapor. (gal.)
	closed	active	int.													
1	23.2	5.0	92.2	0.0	51.6	NR	NR	NR	NR	NR	0	0	NR	0	0	392,000
2	23.2	5.0	92.2	0.0	67.2	NR	NR	0	409,000	NR	63,000	0	NR	0	0	392,000
3	23.2	5.0	92.2	0.0	70.8	NR	NR	85,000	345,000	NR	126,000	0	NR	0	0	392,000
4	23.2	5.0	92.2	0.3	75.6	NR	NR	108,000	305,000	NR	126,000	0	NR	0	0	392,000
5	23.2	5.0	92.2	0.0	69.6	NR	NR	96,000	288,000	NR	125,000	0	NR	0	0	392,000
6	23.2	5.0	92.2	0.0	64.8	NR	NR	308,000	259,000	NR	136,000	0	NR	0	0	392,000
7	23.2	5.0	92.2	1.7	64.8	NR	NR	NR	NR	NR	144,000	0	NR	0	0	392,000
8	23.2	5.0	92.2	0.0	64.8	NR	NR	NR	NR	NR	0	0	NR	0	0	392,000
9	23.2	5.0	92.2	0.0	66.0	NR	NR	97,000	288,000	NR	126,000	0	NR	0	0	392,000
10	23.2	5.0	92.2	0.0	62.4	NR	NR	126,000	259,000	NR	126,000	0	NR	0	0	392,000
11	23.2	5.0	92.2	0.0	64.8	NR	NR	97,000	259,000	NR	125,000	0	NR	0	0	392,000
12	23.2	5.0	92.2	0.0	63.6	NR	NR	234,000	230,000	NR	119,000	0	NR	0	0	392,000
13	23.2	5.0	92.2	0.4	60.0	NR	NR	154,000	345,000	NR	125,000	0	NR	0	0	392,000
14	23.2	5.0	92.2	1.1	60.0	NR	NR	85,000	374,000	NR	125,000	0	NR	0	0	392,000
15	23.2	5.0	92.2	0.2	58.8	NR	NR	NR	NR	NR	0	0	NR	0	0	392,000
16	23.2	5.0	92.2	0.0	67.2	NR	NR	103,000	334,000	NR	121,000	0	NR	0	0	392,000
17	23.2	5.0	92.2	0.0	68.4	NR	NR	93,000	317,000	NR	121,000	0	NR	0	0	392,000
18	23.2	5.0	92.2	0.0	63.6	NR	NR	104,000	288,000	NR	115,000	0	NR	0	0	392,000
19	23.2	5.0	92.2	0.0	63.6	NR	NR	162,000	276,000	NR	122,000	0	NR	0	0	392,000
20	23.2	5.0	92.2	0.0	58.8	NR	NR	165,000	317,000	NR	122,000	0	NR	0	0	392,000
21	23.2	5.0	92.2	0.0	57.6	NR	NR	23,000	360,000	NR	124,000	0	NR	0	0	392,000
22	23.2	5.0	92.2	0.0	63.6	NR	NR	NR	NR	NR	0	0	NR	0	0	392,000
23	23.2	5.0	92.2	0.0	69.6	NR	NR	109,000	259,000	NR	109,000	0	NR	0	0	392,000
24	23.2	5.0	92.2	0.0	58.8	NR	NR	166,000	259,000	NR	122,000	0	NR	0	0	392,000
25	23.2	5.0	92.2	0.0	58.8	NR	NR	162,000	302,000	NR	124,000	0	NR	0	0	392,000
26	23.2	5.0	92.2	0.0	56.4	NR	NR	130,000	340,000	NR	124,000	0	NR	0	0	392,000
27	23.2	5.0	92.2	0.0	56.4	NR	NR	125,000	345,000	NR	125,000	0	NR	0	0	392,000
28	23.2	5.0	92.2	0.0	55.2	NR	NR	210,000	345,000	NR	123,000	0	NR	0	0	392,000
29	23.2	5.0	92.2	0.0	56.4	NR	NR	NR	NR	NR	0	0	NR	0	0	392,000
30	23.2	5.0	92.2	0.1	54.0	NR	NR	39,000	432,000	NR	125,000	0	NR	0	0	392,000
31	23.2	5.0	92.2	0.8	54.0	NR	NR	123,000	345,000	NR	123,000	0	NR	0	0	392,000
Total				4.60	1927.2	0.0	0	3,104,000	7,880,000	0	3,166,000	0	0	0	0	12,152,000
Daily Avg				0.15	62.2	ERR	ERR	124,000	315,000	ERR	102,000	0	ERR	0	0	392,000

Notes:

1. NR, No Records.
2. Column II, total area with waste is 120.4 acres (Phases IIV).
3. Column V, estimated from depth in Phase IV Piezometer.
4. Column VI, estimated from column V and approximate volume with top of clay elevation at 118.5 feet.
5. Column VII, estimated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
6. Columns IX and XIII, quantities from flow meters.
7. Column X, quantity calculated from truck weight.
8. Column XV, 80.8% of the average daily from Columns III and XIII.

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

(Month/Year) March 1995

Date	Depth in Effluent Pond (Inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1		44,690	35,887.5				8802.5		N	
2		44,289	45,675				1,386		N	
3		41,876	52,200				10,324		N	
4		48,540	—				48,540		—	
5		45,858	—				45,858		—	
6		43,460	52,200				8,740		N	
7		48,824	52,200			17,000	3,376		N	
8		39,997	—				39,997	10:45	—	
9		est. 45,000	39,150				5,850		N	
10		45,504	42,412.5				3,091.5		N	
11		35,723	—				35,723		—	
12		44,761	—				44,761		—	
13		45,259	39,150				6,109		N	
14		44,702	39,150			17,000	5,552		N	
15		44,820	39,150			17,000	5,670		N	
16		44,820	46,010			8,500			N	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments:

EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL
 (Month/Year) MARCH

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17		45,150	39,690				5,460	—	N	
18		47,352	—				47,352	4pm	—	
19		44,948	—				44,948	6am	—	
20		49,103	56,784				—	—	N	
21		52,616	59,956			8,500	—	—	N	
22		NO Report	—					—	—	
23		NO Report	—			8,500	—	—	—	
24		38,585	12,000				26,581	—	N	
25		46,559	—				46,559	—	—	
26		42,552	—				42,552	—	—	
27		45,367	57,415			11,000	—	—	N	
28		45,540	58,600				—	—	N	
29		45,080	59,815			7,500	—	4am	N	
30		46,342	59,300			8,500	—	—	N	
31		43,108	45,570				2,462	—	N	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: _____

EFFLUENT DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year) Feb. 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1		—				—	—	—	—	
2		—				—	—	—	—	
3		51,230	24,266				26,964		N	
4		44,800	—				44,800		—	
5		50,080	—				50,080		—	
6		41,020	49,158				8,138		N	
7		52,570	2,373				50,197		N	
8		28,730	57,672				28,942		N	
9		28,730	38,610				9,880		N	
10		44,470	5,180				39,290		N	
11		44,470	—				44,470		—	
12		44,638	—				44,638		—	
13		40,497	—					0900	—	
14		44,008	—						—	
15		48,714	59,887				11,173		N	
16		41,236	52,237				11,001		N	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: _____

EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL
 (Month/Year) Feb. 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17		44,001	52,237				-8,236		N	
18		46,302	0				46,302		-	
19		43,632	0				43,632		-	
20		45,327	0				45,327	10:30	-	
21		45,327	52,200				-6,873		N	
22		44,511	52,200				-7,689		N	
23		29,882	45,675				-15,793		N	
24		37,292	45,675				-8,383		N	
25		45,425	0				45,425		-	
26		49,269	0				49,269		-	
27		40,974	59,850				-18,876		N	
28		44,400	53,150				-8,750		N	
29										
30										
31										

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: _____

SENT BY: DEPT. OF SOLID WASTE : 1-27-95 : 4:49PM :

-D E R TAMPA

1 / 5

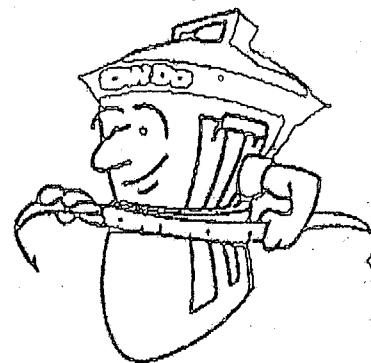


Hillsborough County

Department of Solid Waste * P.O. Box 1110
Tampa, FL 33601

Sender's Telephone Number: 276-29

24-Hour FAX Line - (813) 276-2960



"Together We CAN-DO It"

DATE: 1/27/95

TO: Kim Ford, DEP

FAX: 744-6090 SUBJECT: SELF - Leachate

FROM: P.V. Berry

COMMENTS (If Any): For your information as we
promised - additional information concerning
the SELF and leachate.

D.E.P.

JAN 30 1995

SOUTHWEST DISTRICT
TAMPA

Total Pages Sent (including cover sheet) 5

Serving our customers with:

Residential & Commercial Collection Services • Curbside Recycling • Resource Recovery
Household Chemical Collection • Adopt-A-Road & Adopt-A-Shore
Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services
Community Collection Centers • Environmental Testing

LETTER OF TRANSMITTAL

HILLSBOROUGH COUNTY

Dept. of Solid Waste

P. O. Box 1110

Tampa, Florida 33601

Phone (813) 272-5860 276-2608

Date: 1/27/95

Job No.: _____

Attention: _____

TO: Kim Ford
Dept. of Environmental Protection
Solid Waste Section

RE: SELF Leachate ManagementWE ARE SENDING YOU Attached Under separate cover via the following items:

Shop drawings Prints Plans Samples Specifications
Copy of letter Change order Permit

Copies	Date	No.	
1			Updated leachate levels and pumping through January 27th
1			Memo from Utilities Dept. concerning a long-term disposal commitment.

THESE ARE TRANSMITTED as checked below:

For approval No exceptions noted Resubmit copies for review
X For your use Exceptions noted as shown Submit copies for distribution
X As requested Returned for revisions Return revised prints
For review and comment
FOR BIDS DUE 19 PRINTS RETURNED AFTER LOAN TO US

REMARKS

Kim, the attached information is being provided as a followup to the DSW's January 13, 1995 letter to Steve Morgan, DEP. Also, the information from the Utilities Dept. is being provided as a followup to the DSW's January 13, 1995 permit renewal response No. 9. I would appreciate it if you would please provide a copy of this information to Steve Morgan for his files.

Please call should you have any questions concerning this submittal.

COPY TO _____

SIGNED: Patricia V. Berry

MONTH: January 1995

Page 1

Day	Sump 3	Phase III	Phase IV	500,000Gal Tnk feet	Phase VI gal	Rain Stormwater Fall	Leachate Hauled Contr.	County	Init.
1	4.3			Holiday		0.0	Holiday		MM
2	5.6			Tank Full		0.0	-	63,000	MM
3	5.9			12	360,000	0.0	68,582	57,086	MM
4	6.3			10.6	315,000	0.3	68,599	57,148	MM
5	5.8			10	300,000	0.0	68,291	56,808	MM
6	5.4			9	270,000	0.0	68,537	56,999	MM
7	5.4			-	-	1.7	86,522	57,007	MM
8	5.4			-	-	0.0	-	-	MM
9	5.5			10	300,000	0.0	68,386	57,387	MM
10	5.2			9	270,000	0.0	68,546	57,244	MM
11	5.4			9	270,000	0.0	68,428	56,975	MM
12	5.3			8	240,000	0.0	68,528	50,632	MM
13	5.0	4.0	5.5	12	360,000	0.4	68,514	56,868	MM
14	5.0	4.0	5.0	13	390,000	1.1	68,466	58,957	MM
15	4.9			-	-	0.2	-	-	MM

Comments: 1/12 County tanker down, lost 1 load

Subtotal County - 684,111

Subtotal Contractor - 771,399

MONTH: _____

Page 2

Day	Sump 3	Phase III	Phase IV	500,000Gal Tnk feet	Phase VI gal	Rain Stormwater	Fall	Leachate Contr.	Hauled County	Init.
16	5.6	Holiday		11.6	345,000	Holiday	0.0	63,800	56,928	21 M
17	5.7	4.4	6.0	11	330,000	4.3	0.0	64,490	56,919	21 M
18	5.3	3.4	5.8	10	300,000	4.2	0.0	64,675	50,546	21 M
19	5.3	3.1	5.6	9.6	288,000	4.2	0.0	64,818	57,073	21 M
20	4.9	3.7	5.3	11	330,000	4.0	0.0	65,504	56,321	21 M
21	4.8	3.5	5.2	12.5	375,000	4.0	0.0	67,492	56,622	21 M
22	5.3	-	-	-	-	-	0.0	-	-	21 M
23	5.8	4.3	6	9	270,000	4.1	0.0	53,061	56,134	21 M
24	4.9	3.7	4.8	9	270,000	4.0	0.0	80,150	42,250	21 M
25	4.9	3.5	5	10.5	315,000	4.0	0.0	68,018	56,186	21 M
26	4.7	3.4	4.9	11.8	354,000	4.0	0.0	67,774	56,145	21 M
27	4.7	3.3	4.11	12	360,000	3.11	0.0			21 M
28										
29										
30										
31										

Comments: 1/18 County truck down 4 1/2 hrs; 1/24 Regen using Public Utilities tanker

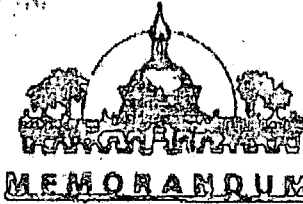
HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Doris Berger
Phyllis Busanich
Joe Chillum
Chris Hoot
Joe Norwood
Ed Turanchik
Sandra Helen Wilson



Senior Assistant County Administrator
Patricia Bann

Assistant County Administrators
Edwin Hunter
Crista Johnson
Joanna Kod
Robert Taylor

DATE: January 23, 1995

TO: Patricia Berry, Section Manager
Landfill Services Section
Department of Solid Waste

FROM: Fred Freshcorn, Section Manager
Technical Support Section
Public Utilities Department

SUBJECT: LEACHATE DISPOSAL

The Hillsborough County Department of Solid Waste (HCDSW) Wastewater Discharge Permit No. 0022 is being revised to allow disposal of up to 200,000 gallons per day of leachate from the Southeast Landfill. The current permitted leachate volumes from the Hillsborough Heights Landfill and South County Transfer Station remain the same. Though the permit allows disposal of leachate at the County wastewater treatment facilities, it does not reserve capacity for same. However, provided capacity exists, regulations are met, and barring unforeseen conditions that would restrict the acceptance of leachate, the Hillsborough County Public Utilities Department will continue to accept leachate until July 19, 2000, and beyond, if required by HCDSW.

If you require additional information/assistance, please contact Victor Hernandez, Senior Engineer, at telephone 272-5977.

FLF/JM/sjr

I:\groups\engfiles\secretar\landleac



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL SHEET

FAXED
10:30
KRM

2/10/95
Date

TO:

LARRY ROSE

DEPT.:

SCS

FAX #:

6236757

FROM:

Kim FORD

DEPT.: D.E.P., Tampa Office

PHONE: 813-744-6100 or SunCom 542-6100 Ext. 382
FAX(local) 744-6125 or (SunCom) 542-6125

SUBJECT:

2 SPREADSHEETS

COMMENT:

DOE monthly & THANKS

TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE:

3

RECEIVED BY:

PHONE:

**SARASOTA COUNTY
BEE RIDGE SOLID WASTE LANDFILL
LEACHATE WATER BALANCE – DECEMBER, 1994**

DATE	ACRES C-CLOSE O-OPEN I-INTERM	RAINFALL W/S (IN/DAY)	PUMP EAST HOURS		WEST HOURS		LANDFILL (1) STORAGE (GALLONS)	HOLDING POND STORAGE (GALLONS)	SUM STORED LEACHATE (GALLONS)	LEACHATE EVAPORATION (GALLONS)	LEACHATE HAUL (GALLONS)	CHANGE IN TOTAL STORAGE (2) (GALLONS)
1	C-90,O-15,I-115	0.00	N/A	N/A	N/A	N/A	56,014,350	16,753,846	72,768,196	12,000	107,851	N/A
2	C-90,O-15,I-115	0.00	14.70	124,494	6.80	91,895	57,526,314	16,355,329	73,881,642	12,000	75,537	1,113,446
3	C-90,O-15,I-115	0.00	19.00	171,000	8.90	132,299	57,366,645	16,530,636	73,897,281	12,000	113,053	15,639
4	C-90,O-15,I-115	0.13	NR	0	NR	0	NR	NR	NR	0	0	(813,821)
5	C-90,O-15,I-115	0.00	27.30	247,502	11.30	183,907	55,962,213	16,307,426	72,269,639	12,000	147,168	(813,821)
6	C-90,O-15,I-115	0.00	19.00	172,900	8.00	119,600	54,697,898	16,756,457	71,454,355	12,000	165,576	(815,284)
7	C-90,O-15,I-115	0.01	12.40	97,700	5.80	72,877	56,245,706	16,084,217	72,329,923	12,000	91,168	875,568
8	C-90,O-15,I-115	0.00	16.70	147,394	7.10	107,302	56,946,293	16,248,789	73,195,082	12,000	107,916	865,159
9	C-90,O-15,I-115	0.00	14.40	127,094	6.10	91,799	56,082,779	16,135,280	72,218,059	12,000	140,398	(977,022)
10	C-90,O-15,I-115	0.00	16.10	142,904	7.00	106,897	56,972,361	16,021,772	72,994,134	12,000	76,038	776,074
11	C-90,O-15,I-115	0.00	NR	0	NR	0	NR	NR	NR	0	0	(1,397,374)
12	C-90,O-15,I-115	0.07	30.40	277,704	13.10	193,998	54,404,629	15,794,756	70,199,385	12,000	132,398	(1,397,374)
13	C-90,O-15,I-115	0.00	14.80	138,898	6.90	100,098	54,844,533	15,681,248	70,525,780	12,000	150,739	326,395
14	C-90,O-15,I-115	0.00	14.70	137,195	7.10	105,101	54,440,473	15,567,739	70,008,213	12,000	113,331	(517,567)
15	C-90,O-15,I-115	0.00	14.50	138,896	6.90	109,972	54,313,390	15,191,377	69,504,767	12,000	108,185	(503,446)
16	C-90,O-15,I-115	0.00	14.40	136,296	6.20	81,728	54,225,409	15,079,772	69,305,181	12,000	113,763	(199,586)
17	C-90,O-15,I-115	0.00	14.20	140,197	7.00	103,698	55,685,237	15,227,215	70,912,452	12,000	106,691	1,607,270
18	C-90,O-15,I-115	0.00	NR	0	NR	0	NR	NR	NR	0	0	(602,290)
19	C-90,O-15,I-115	0.13	28.70	288,004	13.70	197,595	54,707,674	15,000,198	69,707,872	12,000	132,609	(602,290)
20	C-90,O-15,I-115	0.00	14.10	148,106	6.50	95,401	53,876,745	15,140,644	69,017,389	12,000	150,060	(690,483)
21	C-90,O-15,I-115	0.34	14.50	143,999	7.20	101,902	54,544,747	15,277,887	69,822,634	12,000	151,331	805,245
22	C-90,O-15,I-115	0.96	15.10	160,498	7.40	116,705	55,043,304	15,160,561	70,203,865	12,000	107,149	381,231
23	C-90,O-15,I-115	0.59	2.40	15,499	7.50	112,688	59,474,923	15,043,235	74,518,158	12,000	44,010	4,314,293
24	C-90,O-15,I-115	0.00	20.90	220,390	8.00	124,504	54,652,279	14,925,909	69,578,188	12,000	0	(4,939,971)
25	C-90,O-15,I-115	0.00	NR	0	NR	0	NR	NR	NR	0	0	(1,269,372)
26	C-90,O-15,I-115	0.00	21.70	267,192	13.50	204,971	51,615,316	15,424,128	67,039,444	12,000	114,086	(1,269,372)
27	C-90,O-15,I-115	0.00	13.00	136,097	7.00	105,700	53,378,188	15,301,047	68,679,235	12,000	113,554	1,639,791
28	C-90,O-15,I-115	0.00	11.00	82,401	7.00	93,499	53,870,229	15,177,965	69,048,194	12,000	139,472	368,959
29	C-90,O-15,I-115	0.00	14.40	193,997	7.90	102,036	54,261,254	15,294,583	69,555,836	12,000	150,875	507,642
30	C-90,O-15,I-115	0.00	9.60	118,502	6.10	100,278	53,576,960	14,931,803	68,508,763	12,000	95,600	(1,047,074)
31	C-90,O-15,I-115	0.00	12.60	128,696	7.30	92,527	53,133,798	13,871,076	67,004,874	12,000	160,631	(1,503,889)
TOTAL FOR MONTH										324,000	3,109,187	(5,763,322)
TOTAL GALLONS PER DAY AVERAGE										10,452	100,296	(185,914)

NR = No Records

N/A = Information Not Available to Calculate

(1)= Landfill storage estimated from piezometers located at the perimeter of the landfill.

(2)= (#) Denotes decrease in stored quantity.

For Pump Data, Values After No Reading/Record (NR) Represent Two or More Days of Pumping Information.

TABLE 1. WATER BALANCE REPORT FORM
FOR SPRAY IRRIGATION AT THE
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA
MONTH _____, YEAR _____

Date	Leachate Treated (gal/day)	Treated Effluent Stored (gal/day)	Treated Effluent Sprayed (gal/day)	Rainfall Onsite (inches/day)	Time of Day At End of Rainfall	Observed Runoff Influent to Retention Area (yes/no)	Time of Day At End of Runoff	Comments
1								
2								
3								
4								
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6-95 05:06PM FROM SCS ENGINEERS TAMPA TO 7446084 POC5/JOE

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Daniel A. Kleman

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Mr. Kim Ford
Florida Department of Environmental Protection
3804 Coconut Palm
Tampa, Florida 33619

D.E.P.

FEB - 6 1995

SOUTHWEST DISTRICT
TAMPA

RE: Southeast Landfill
Permit No. SO29-158504
Quantity Report

Dear Mr. Ford:

In accordance with your request dated March 30, 1993, the Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of at a wastewater treatment facility.

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

Patricia V. Berry
Landfill Services Section Manager

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
OCT 1	0	0	0	0
OCT 2	0	0	0	0
OCT 3	0	0	0	0
OCT 4	0	0	0	0
OCT 5	0	0	0	0
OCT 6	0	0	0	0
OCT 7	0	0	0	0
OCT 8	0	0	0	0
OCT 9	0	0	0	0
OCT 10	0	0	0	0
OCT 11	6,357	37,265	0	43,622
OCT 12	12,630	37,409	0	50,039
OCT 13	18,932	37,400	0	56,332
OCT 14	18,970	37,456	0	56,426
OCT 15	0	37,558	0	37,558
OCT 16	0	0	0	0
OCT 17	12,388	0	0	12,388
OCT 18	19,026	12,540	0	31,566
OCT 19	18,910	50,153	8,500	77,563
OCT 20	12,890	73,879	0	86,769
OCT 21	19,446	61,968	0	81,414
OCT 22	0	61,702	0	61,702
OCT 23	0	0	0	0
OCT 24	19,328	49,513	0	68,841
OCT 25	25,678	49,581	0	75,259
OCT 26	6,446	61,738	0	68,184
OCT 27	19,348	61,919	0	81,267
OCT 28	19,244	61,887	8,000	89,131
OCT 29	0	56,649	0	56,649
OCT 30	0	0	0	0
OCT 31	12,898	62,175	0	75,073
MTHLY TOTAL	=====	=====	=====	=====
	242,491	850,792	16,500	1,109,783

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
NOV 1	19,229	31,137	0	50,366
NOV 2	6,381	57,458	0	63,839
NOV 3	13,131	61,570	0	74,701
NOV 4	18,975	55,573	8,500	83,048
NOV 5	0	61,931	0	61,931
NOV 6	0	0	0	0
NOV 7	12,675	54,192	8,500	75,367
NOV 8	19,140	59,804	0	78,944
NOV 9	6,477	60,052	0	66,529
NOV 10	19,154	60,799	8,500	88,453
NOV 11	0	59,046	0	59,046
NOV 12	0	59,803	0	59,803
NOV 13	0	0	0	0
NOV 14	13,023	60,020	0	73,043
NOV 15	12,930	60,200	0	73,130
NOV 16	6,407	60,589	0	66,996
NOV 17	19,420	60,499	0	79,919
NOV 18	6,482	60,462	0	66,944
NOV 19	0	60,413	8,500	68,913
NOV 20	0	0	0	0
NOV 21	19,301	60,471	0	79,772
NOV 22	18,964	60,525	8,500	87,989
NOV 23	6,344	60,628	8,500	75,472
NOV 24	0	0	0	0
NOV 25	0	60,591	8,500	69,091
NOV 26	0	60,622	8,500	69,122
NOV 27	0	0	0	0
NOV 28	19,137	60,918	8,500	88,555
NOV 29	12,875	60,352	8,500	81,727
NOV 30	6,484	60,720	8,500	75,704
NOV 31				0
	=====	=====	=====	=====
MTHLY TOTAL	256,529	1,468,375	93,500	1,818,404

DATE 1994	COUNTY HAULED	CONTRATOR HAULED	RECIRCULATION	DAILY AMT
DEC 1	19,354	60,422	8,500	88,276
DEC 2	12,796	60,509	8,500	81,805
DEC 3	0	60,582	8,500	69,082
DEC 4	0	0	0	0
DEC 5	19,162	60,493	0	79,655
DEC 6	19,487	60,433	0	79,920
DEC 7	6,534	60,333	8,500	75,367
DEC 8	19,533	54,306	17,000	90,839
DEC 9	19,384	60,157	8,500	88,041
DEC 10	0	61,224	8,500	69,724
DEC 11	0	0	0	0
DEC 12	19,505	60,658	0	80,163
DEC 13	19,368	60,635	8,500	88,503
DEC 14	6,455	60,359	0	66,814
DEC 15	0	60,431	8,500	68,931
DEC 16	0	60,240	8,500	68,740
DEC 17	0	60,477	8,500	68,977
DEC 18	0	0	0	0
DEC 19	57,037	62,468	8,500	128,005
DEC 20	56,946	62,296	8,500	127,742
DEC 21	56,762	62,403	0	119,165
DEC 22	56,826	68,519	0	125,345
DEC 23	56,879	62,124	0	119,003
DEC 24	56,971	0	0	56,971
DEC 25	0	0	0	0
DEC 26	56,700	68,200	0	124,900
DEC 27	56,592	68,620	0	125,212
DEC 28	57,299	68,654	0	125,953
DEC 29	56,876	68,658	8,500	134,034
DEC 30	56,805	68,646	8,500	133,951
DEC 31	56,483	68,693	8,500	133,676
	=====	=====	=====	=====
	843,754	1,630,540	144,500	2,618,794

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl

BOARD OF COUNTY COMMISSIONERS

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Jimmie Keel
Robert Taylor



Department of Environmental Protection
SOUTHWEST DISTRICT

BY _____ October 14, 1994

Mr. Kim Ford, P.E.
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast Landfill
Permit No. S029-158504
Leachate Quantity Report

Dear Mr. Ford:

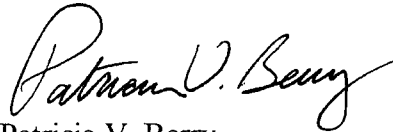
The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided along with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of at a County wastewater treatment facility.

During a recent discussion with the Department of Environmental Protection (DEP) and the Environmental Protection Commission (EPC), it was indicated that the DSW could continue leachate recirculation. Since this discussion, the DSW has resumed leachate recirculation in accordance with Section 62-701.400(5) when the weather permits.

Page Two
Mr. Kim Ford
October 14, 1994

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
JULY 1	0	49,829	0	49,829
JULY 2	0	49,829	0	49,829
JULY 3	0	0	0	0
JULY 4	0	0	20,800	20,800
JULY 5	18,564	52,479	0	71,043
JULY 6	19,302	52,479	0	71,781
JULY 7	19,212	52,479	0	71,691
JULY 8	19,043	52,463	0	71,506
JULY 9	0	52,479	0	52,479
JULY 10	0	0	0	0
JULY 11	19,188	0	0	19,188
JULY 12	18,849	50,872	31,000	100,721
JULY 13	18,165	50,880	0	69,045
JULY 14	18,867	50,880	0	69,747
JULY 15	11,727	50,880	0	62,607
JULY 16	0	50,880	0	50,880
JULY 17	0	0	0	0
JULY 18	19,838	0	0	19,838
JULY 19	6,800	47,191	0	53,991
JULY 20	20,266	47,191	0	67,457
JULY 21	19,285	47,179	0	66,464
JULY 22	18,847	47,191	0	66,038
JULY 23	18,859	47,191	0	66,050
JULY 24	0	0	0	0
JULY 25	6,328	0	0	6,328
JULY 26	0	54,149	0	54,149
JULY 27	18,737	54,148	0	72,885
JULY 28	19,143	54,149	0	73,292
JULY 29	6,379	54,149	0	60,528
JULY 30	0	54,149	0	54,149
JULY 31	0	0	0	0
MTHLY TOTAL	=====	=====	=====	=====
	317,399	1,123,116	51,800	1,492,315

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
AUG 1	19,185	0	0	19,185
AUG 2	18,940	53,802	20,250	92,992
AUG 3	12,784	53,802	0	66,586
AUG 4	19,016	53,802	0	72,818
AUG 5	19,001	53,802	0	72,803
AUG 6	0	53,801	0	53,801
AUG 7	0	0	0	0
AUG 8	18,931	0	0	18,931
AUG 9	19,138	53,048	0	72,186
AUG 10	19,350	53,048	0	72,398
AUG 11	18,822	53,048	0	71,870
AUG 12	6,451	53,048	0	59,499
AUG 13	0	53,047	0	53,047
AUG 14	0	0	0	0
AUG 15	19,299	0	0	19,299
AUG 16	19,411	54,310	9,350	83,071
AUG 17	0	54,310	0	54,310
AUG 18	12,609	54,310	0	66,919
AUG 19	19,081	54,310	0	73,391
AUG 20	0	54,309	0	54,309
AUG 21	0	0	0	0
AUG 22	6,270	0	0	6,270
AUG 23	6,386	54,971	3,750	65,107
AUG 24	19,003	54,971	0	73,974
AUG 25	0	54,967	0	54,967
AUG 26	19,010	54,971	0	73,981
AUG 27	0	54,971	0	54,971
AUG 28	0	0	0	0
AUG 29	12,850	0	0	12,850
AUG 30	19,087	54,615	12,720	86,422
AUG 31	18,963	54,615	0	73,578
=====				
MTHLY TOTAL	343,587	1,189,878	46,070	1,579,535

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
SEPT 1	6,374	55,094	17,190	78,658
SEPT 2	19,255	55,094	0	74,349
SEPT 3	0	55,093	0	55,093
SEPT 4	0	0	0	0
SEPT 5	0	0	0	0
SEPT 6	19,042	55,264	6,530	80,836
SEPT 7	0	55,264	0	55,264
SEPT 8	19,081	55,264	0	74,345
SEPT 9	19,029	55,264	0	74,293
SEPT 10	0	55,262	0	55,262
SEPT 11	0	0	0	0
SEPT 12	0	0	0	0
SEPT 13	0	55,861	0	55,861
SEPT 14	19,180	55,858	0	75,038
SEPT 15	19,274	55,861	0	75,135
SEPT 16	19,244	55,861	0	75,105
SEPT 17	0	55,861	0	55,861
SEPT 18	0	0	0	0
SEPT 19	12,903	0	0	12,903
SEPT 20	19,376	56,286	5,620	81,282
SEPT 21	19,144	56,288	0	75,432
SEPT 22	12,442	56,288	0	68,730
SEPT 23	0	56,288	0	56,288
SEPT 24	0	56,288	0	56,288
SEPT 25	0	0	0	0
SEPT 26	18,735	0	0	18,735
SEPT 27	19,203	66,917	0	86,120
SEPT 28	19,145	66,917	0	86,062
SEPT 29	12,541	66,917	0	79,458
SEPT 30	6,446	66,914	0	73,360
SEPT 31		0	0	0
MTHLY TOTAL	=====	=====	=====	=====
	280,414	1,270,004	29,340	1,579,758

HILLSBOROUGH COUNTY

Florida

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Frederick B. Karl

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Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (*Interim Appointment*)
Jimmie Keel
Robert Taylor (*Interim Appointment*)

July 13, 1994

Mr. Kim Ford, P.E.
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast Landfill
Permit No. S029-158504
Quantity Report

Dear Mr. Ford:

The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided along with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of at a County wastewater treatment facility.

During a recent discussion with the Department of Environmental Protection (DEP) and the Environmental Protection Commission (EPC), it was indicated that the DSW could continue leachate recirculation. Since this discussion, the DSW has resumed leachate recirculation in accordance with Section 17-701.400(5) when the weather permits. Since May 17, 1994, only 82,250 gallons have been able to be recirculated.

Mr. Kim Ford
Page Two
July 13, 1994

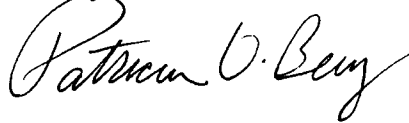
D.E.P.

JUL 21 1994

SOUTHWEST DISTRICT
TAMPA

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,



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

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
APRIL 1	25,499	37,138	62,637
APRIL 2	0	37,115	37,115
APRIL 3	0	0	0
APRIL 4	13,155	37,041	50,196
APRIL 5	19,032	37,061	56,093
APRIL 6	19,214	37,035	56,249
APRIL 7	25,283	37,006	62,289
APRIL 8	0	36,983	36,983
APRIL 9	0	0	0
APRIL 10	0	0	0
APRIL 11	19,020	0	19,020
APRIL 12	19,226	30,647	49,873
APRIL 13	18,836	57,164	76,000
APRIL 14	19,256	55,744	75,000
APRIL 15	19,141	30,859	50,000
APRIL 16	0	56,000	56,000
APRIL 17	0	0	0
APRIL 18	12,793	0	12,793
APRIL 19	0	49,207	49,207
APRIL 20	19,237	48,763	68,000
APRIL 21	12,762	43,238	56,000
APRIL 22	19,167	47,833	67,000
APRIL 23	19,281	56,719	76,000
APRIL 24	0	0	0
APRIL 25	12,929	0	12,929
APRIL 26	6,436	49,564	56,000
APRIL 27	5,676	30,324	36,000
APRIL 28	17,393	38,607	56,000
APRIL 29	0	52,000	52,000
APRIL 30	0	53,000	53,000
=====			
	323,336	959,048	1,282,384


DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
MAY 1	0	0		0
MAY 2	19,332	0		19,332
MAY 3	0	53,566		53,566
MAY 4	0	53,565		53,565
MAY 5	19,145	53,565		72,710
MAY 6	19,029	53,565		72,594
MAY 7	0	53,565		53,565
MAY 8	0	0		0
MAY 9	19,109	0		19,109
MAY 10	19,092	49,639		68,731
MAY 11	18,904	49,636		68,540
MAY 12	19,149	49,636		68,785
MAY 13	12,672	49,636		62,308
MAY 14	0	49,636		49,636
MAY 15	0	0		0
MAY 16	18,975	0		18,975
MAY 17	19,215	53,717	34,000	106,932
MAY 18	0	53,714		53,714
MAY 19	18,788	53,714		72,502
MAY 20	19,424	53,714		73,138
MAY 21	0	53,714		53,714
MAY 22	0	0		0
MAY 23	0	0		0
MAY 24	19,063	44,428	32,100	95,591
MAY 25	18,995	44,424		63,419
MAY 26	12,468	44,424		56,892
MAY 27	18,792	44,424		63,216
MAY 28	12,458	44,424		56,882
MAY 29	0	0		0
MAY 30	0	0		0
MAY 31	0	59,200		59,200
	=====	=====	=====	=====
	304,610	1,065,906	66,100	1,436,616

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATION	DAILY AMT
JUNE 1	19,070	51,248		70,318
JUNE 2	12,738	51,248		63,986
JUNE 3	0	51,248		51,248
JUNE 4	0	51,248		51,248
JUNE 5	0	0		0
JUNE 6	0	0		0
JUNE 7	0	52,071		52,071
JUNE 8	19,358	52,069		71,427
JUNE 9	6,295	52,069		58,364
JUNE 10	0	52,069		52,069
JUNE 11	0	52,069		52,069
JUNE 12	0	0		0
JUNE 13	19,078	0		19,078
JUNE 14	19,063	50,905		69,968
JUNE 15	19,381	50,903		70,284
JUNE 16	12,715	50,903		63,618
JUNE 17	6,324	50,903		57,227
JUNE 18	0	50,903		50,903
JUNE 19	0	0		0
JUNE 20	0	0		0
JUNE 21	19,013	54,596		73,609
JUNE 22	19,209	54,594		73,803
JUNE 23	12,776	54,594		67,370
JUNE 24	19,180	54,594		73,774
JUNE 25	0	54,594	3,850	58,444
JUNE 26	0	0		0
JUNE 27	19,069	0		19,069
JUNE 28	12,858	49,828		62,686
JUNE 29	18,479	49,828	12,300	80,607
JUNE 30	18,221	49,828		68,049
=====	=====	=====	=====	=====
	272,827	1,142,312	16,150	1,431,289

SCS ENGINEERS

June 10, 1994

File No. 0990018.34

RECEIVED
JUN 10 1994Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Mr. Kim B. Ford, P.E.
Florida Department of Environmental Protection
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: Florida Department of Environmental Protection (FDEP) letter dated
March 25, 1994 for the Southeast Landfill Leachate Quantity Reporting,
Permit No. S029-158504

Dear Mr. Ford:

On March 21, 1994, the Hillsborough County Department of Solid Waste (HCDSW) submitted a letter to the Florida Department of Environmental Protection presenting leachate quantity reports for the Southeast Landfill (SELF). During a subsequent meeting with you on March 23, 1994, one of the topics discussed was leachate generation rates at the SELF. In your letter of March 25, 1994, you requested additional information for your evaluation for the renewal of the operations permit for the SELF. Specifically, you expressed concern that the amount of leachate removed from the SELF is less than what is potentially being generated. SCS Engineers (SCS) has evaluated leachate generation at SELF and found that the volume of leachate being removed from SELF is essentially equal to the volume being produced. This letter provides our evaluation.

In your March 25th letter, you calculated that 250 gallons/day/acre (g/d/a) are being removed from SELF based on 122 acres of disposal area. This removal amount was based on the quarterly leachate report submitted as Attachment C to HCDSW's March 21st letter. The quarterly report contained documentation from the tanker trucks contracted by HCDSW, including the volume of leachate transported from SELF on a daily basis. The tank truck data represent total quantities removed from the leachate sump. The question raised in your March 25th letter concerns whether the 250 g/d/a represents all the leachate being generated at the time of the report.

SCS conducted a water balance analysis on the current configuration of the SELF to estimate the potential rate of leachate generation. The approach used a water balance method to evaluate leachate production from various types of landfill operations occurring at any given time. The water balance calculations were performed using the U.S. Environmental Protection Agency's (U.S. EPA) Hydrological Evaluation of Landfill Performance (HELP) computer model (Schroeder, Payton, McEnroe, and Sjostrom, 1988). The following summarizes the approach and findings of the HELP analysis.



Mr. Kim B. Ford, P.E.

June 10, 1994

Page 2

Figure 1 shows the current configuration of the SELF landfill. The SELF currently has an approximately 5-acre active area, 98.4 acres of intermediate-capped areas, and 22 acres of final-capped sideslopes. This configuration was used as the basis for calculating current potential leachate generation at the site. Water balance calculations were performed on each of the three areas described above. Table 1 lists the characteristics of various landfill areas and their respective leachate generation estimates. Table 2 provides a summary of the leachate generation scenarios based on the water balance calculations. The HELP model output information is attached. Additional discussion regarding each of the three landfill areas is presented below.

- Active area. Current operations at the landfill include an active 5-acre cell within Phase III where waste is placed, compacted, and covered with soil on a daily basis. In the water balance calculations, all precipitation falling on the active area becomes a component of the water balance contributing to the leachate volume. The calculations estimate a current leachate generation rate from the active area of 5,625 gallons per day (gpd). *1125' gpd/acre*
- Intermediate-capped areas. Water balance calculations for the intermediate-capped areas of the SELF estimate a current leachate generation rate of 18,680 gpd. *190 gpd/acre*
- Final-capped sideslopes. A final capping system has been installed on the sideslopes of SELF Phases I, II, and III. The total area of the final-capped sideslopes is approximately 22 acres. The water balance calculations for these sideslopes estimate a current leachate generation rate of 2,024 gpd. *92 gpd/acre*

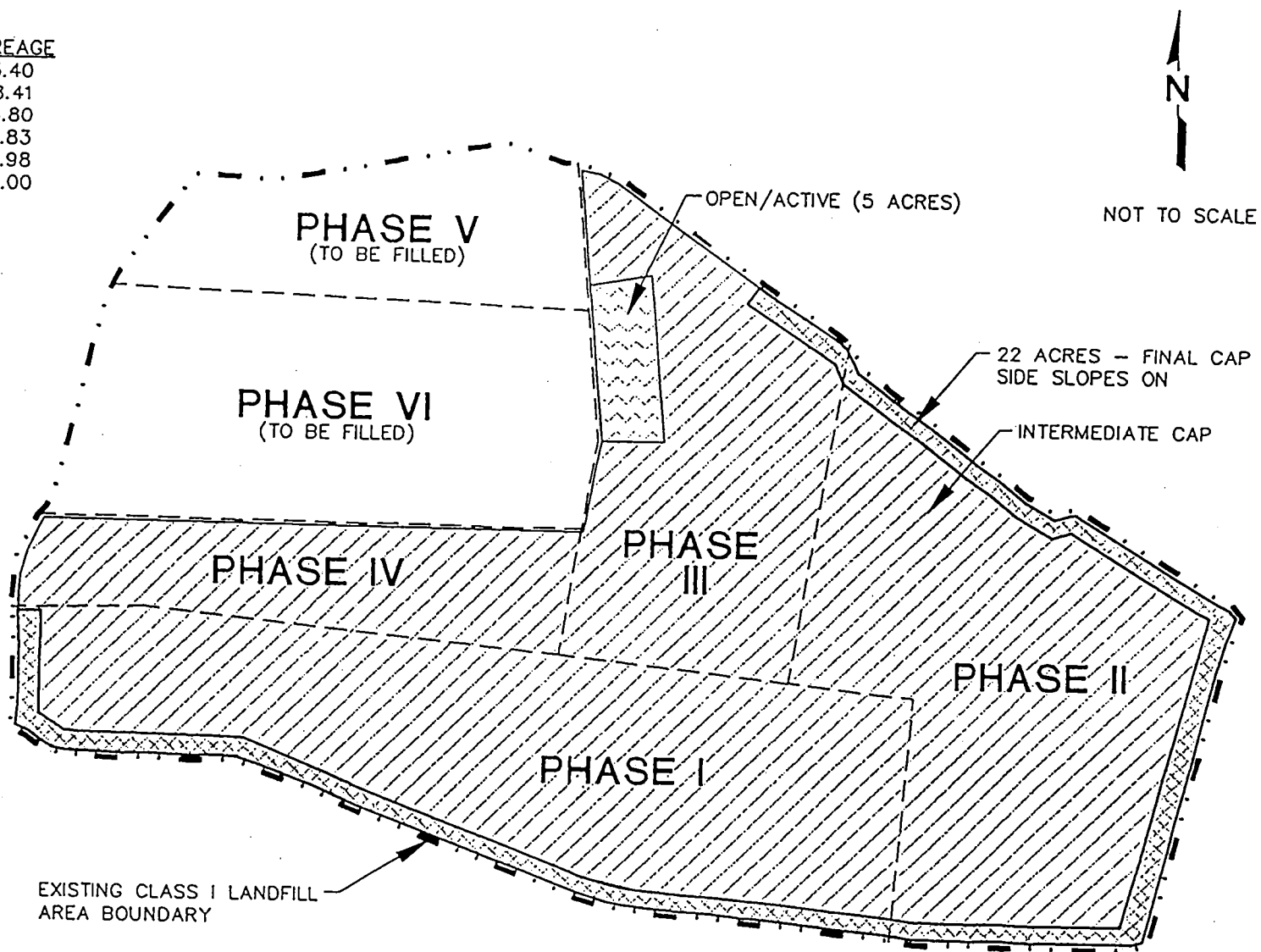
In addition to leachate being produced by infiltration and moisture within the refuse, the phosphatic clays of the bottom liner also contribute water. As the landfill-induced stresses consolidate the clay slimes, water is squeezed out of the clay, upward into the landfill. In the SELF permit application prepared by Camp, Dresser & McKee (February 1983, p. 3-5), the stress-induced dewatering of the phosphatic clay was estimated to generate 50 g/d/a of leachate.

Table 2 lists the summary of calculated leachate generation for current conditions at the SELF. Considering all potential sources of volume generation, including dewatering of the compacting clay slimes, the water balance calculations indicate a current leachate generation rate at the SELF of 32,350 gpd for the actual operational area of 120.4 acres, or about 270 g/d/a.

This value compares favorably with the 250 g/d/a being removed from SELF by tanker truck. Based on the water balance estimates, SCS concludes that the daily removal of leachate from the SELF is essentially equal to the current leachate production at the landfill.

PHASE ACREAGE

I	43.40
II	38.41
III	24.80
IV	13.83
V	13.98
VI	28.00



SCS ENGINEERS

Figure 1. SELF Phase Configurations as of June 1994

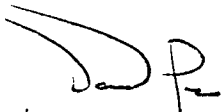
Mr. Kim B. Ford, P.E.
June 10, 1994
Page 3

As the HCDSW mentioned in their letter dated March 16, 1994, the current leachate removal limitations are a short-term condition. An on-site leachate treatment plant currently is under construction. The anticipated completion date for construction of the treatment plant is August 1994. This on-site treatment plant will allow the County to treat an average of 60,000 gpd of leachate.

We hope these estimates are helpful and adequately demonstrate that the leachate being generated at the SELF is accounted for. The HCDSW will continue to treat and dispose of all leachate from the landfill in accordance with the facility's operations permit. Please be advised that SCS is evaluating leachate levels within the SELF, and that the assessment will be forthcoming in a separate letter.

Please call if we can be of any further assistance.

Very truly yours,



For | Larry E. Ruiz
Project Engineer



For | Robert B. Gardner, P.E.
Vice President
SCS ENGINEERS

LER/RBG:ks

Attachments

cc: Paul Schiper, Hillsborough EPC

**TABLE 1. HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE (HELP) MODELING
FOR PHASES I THROUGH IV
HILLSBOROUGH COUNTY SOUTHEAST COUNTY LANDFILL**

Landfill Phases	Area (acre)	Grass Cover	Soil Cover Type	Waste Height (ft)	Average Leachate Generation Rate	
					(gallons/day)	(gal/day/acre)
Capped Side Slopes (Phases I, II, & III)	22.0	Fair	18-inch Clay Cap	10	2,024	92
Active Cell	5.0	Bare	6-inch Daily Cover	20	5,625	1,125
Intermediately Capped Phases: (Phases I to IV)	93.4	Fair	12-inch Intermed. Soil Cap	40	18,680	200

- Notes:
- (1) Additional side slope areas, as work progresses, was not modeled.
 - (2) Sideslope model accounted for evapotranspiration within the barrier soils.
 - (3) A runoff fraction value of 0% was used to model the active and open cells for which no runoff occurs.
 - (4) Areas have been adjusted to reflect the current landfill configuration based on recent field survey.

Some is BARE

*7 with Generation Rate immediately
after opening phase 5 or 6 ?*

**TABLE 2. LEACHATE GENERATION SCENARIOS
HILLSBOROUGH COUNTY SOUTHEAST COUNTY LANDFILL**

Phases I Through IV (Current Condition)		
Stage	Area (acre)	Rate (gallons/day)
Sideslopes	22.0	2,024
Int. Capped	93.4	18,680
Active	5.0	5,625
Open	0.0	0
Dewatering	120.4	6,020
Totals	120.4	32,350

32,350 gallons/day ÷ 120.4 acres = 270 gallons/day/acre (g/d/a)

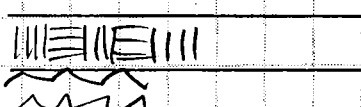


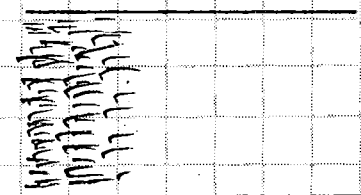
ATTACHMENT 1
ACTIVE CELL HELP MODEL DATA

SCS ENGINEERS

SHEET _____ OF _____

CLIENT	HILLS. CNTY	PROJECT	SELF	JOB NO.	0990018.34
SUBJECT	HELP MODEL ANALYSIS	BY	KAS	DATE	5-18-94
		CHECKED	(initials)	DATE	5/24/94

ACTIVE CELL (CONCEPTUAL CROSS-SECTION)

BARE SOIL			
	LAYER #	THICK.	DESCRIPTION
	1	6"	DAILY COVER
	2	240"	20 FEET OF WASTE (PER WMI 4/4/94 SURVEY)
	3	36"	DRAINAGE SAND
	4	48"	BOTTOM LINER

PRECIP = 49.3 INCHES

RUNOFF = 0 %

ET = 69 %

LEACHATE = 187,605 + 7,929 + 79,120 CF/YR/5 AC

= 274,660 CF/YR/5 AC

= 5,629 gal/day/5 AC

= 1,125 gal/day/acre

HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: SELF

PROJECT NO.: 0990018.34

LOCATION: TAMPA, FLORIDA

DATE: APRIL 26, 1994

ANALYSIS DESCRIPTION: ACTIVE 5 AREA CELL

ENGINEER: KARL SCHMIT

FILENAME: ACTIVE 49.OUT

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CM/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	DAILY COVER	6"	1	5	(These	values were	generated	by the	computer)
2	WASTE	240"	1	18					
3	DRAINAGE SAND	36"	2	2					
4	CLAY	48"	3	17					
5									
6									
7									
8									
9									

Additional Computational Information

Rainfall Generation: (Default Synthetic ☒ Years 5

Maximum Leaf Index: 0

Evaporative Zone Depth = 10 in

Growing Season: Start: 0 End: 367

Soil Water Content (If not initialized by Computer):

Vegetative Cover: (Bare) Poor/Fair/Good/Excellent

SCS Curve Number = 83 (CALCULATED BY COMPUTER)

Liner Leakage Fraction = N/A

Potential Runoff Fraction = 0%

Landfill Area = 217,800 sf (SAL)

Cap Slope = N/A %

Cap Drainage Length = N/A ft

Bottom Liner Slope = 0.40 %

Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 3.17 in ; Average Annual = 49.30 in

Average Annual Percolation = 7,929 cf/year

Peak Daily Lateral Drainage = 888 cf/day

Average Annual Lateral Drainage = 187,605 cf/year

Peak Daily Runoff = 0 cf/day

Average Annual Runoff = 0 cf/year

Peak Daily Percolation from Bottom Liner = 28 cf/day

 SOUTHEAST LANDFILL
 HILLSBOROUGH COUNTY, FLORIDA
 ACTIVE 5 ACRE CELL
 JUNE 7, 1994

BARE GROUND

LAYER 1

VERTICAL PERCOLATION LAYER

THICKNESS	=	6.00 INCHES
POROSITY	=	0.3573 VOL/VOL
FIELD CAPACITY	=	0.1127 VOL/VOL
WILTING POINT	=	0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1127 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000049999999 CM/SEC

LAYER 2

VERTICAL PERCOLATION LAYER

THICKNESS	=	240.00 INCHES
POROSITY	=	0.5200 VOL/VOL
FIELD CAPACITY	=	0.2942 VOL/VOL
WILTING POINT	=	0.1400 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000199999995 CM/SEC

LAYER 3

LATERAL DRAINAGE LAYER

THICKNESS	=	36.00 INCHES
POROSITY	=	0.3339 VOL/VOL
FIELD CAPACITY	=	0.0529 VOL/VOL
WILTING POINT	=	0.0245 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0529 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000289999996 CM/SEC
SLOPE	=	0.40 PERCENT
DRAINAGE LENGTH	=	200.0 FEET

LAYER 4

BARRIER SOIL LINER

THICKNESS	=	48.00 INCHES
POROSITY	=	0.4000 VOL/VOL
FIELD CAPACITY	=	0.3560 VOL/VOL
WILTING POINT	=	0.2899 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000000010000 CM/SEC

GENERAL SIMULATION DATA

SCS RUNOFF CURVE NUMBER	=	83.31
TOTAL AREA OF COVER	=	217800. SQ FT
EVAPORATIVE ZONE DEPTH	=	10.00 INCHES
POTENTIAL RUNOFF FRACTION	=	0.000000
UPPER LIMIT VEG. STORAGE	=	4.2238 INCHES
INITIAL VEG. STORAGE	=	2.0543 INCHES
INITIAL SNOW WATER CONTENT	=	0.0000 INCHES
INITIAL TOTAL WATER STORAGE IN SOIL AND WASTE LAYERS	=	92.3886 INCHES

SOIL WATER CONTENT INITIALIZED BY PROGRAM.

CLIMATOLOGICAL DATA

SYNTHETIC RAINFALL WITH SYNTHETIC DAILY TEMPERATURES AND
SOLAR RADIATION FOR TAMPA FLORIDA

MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367

NORMAL MEAN MONTHLY TEMPERATURES, DEGREES FAHRENHEIT

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
-----	-----	-----	-----	-----	-----
59.80	60.80	66.20	71.60	77.10	80.90
82.20	82.20	80.90	74.50	66.70	61.30

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
-----	-----	-----	-----	-----	-----	-----
PRECIPITATION						

TOTALS	2.34 8.69	2.66 8.48	2.80 7.39	1.03 1.89	2.65 0.76	6.11 4.50
STD. DEVIATIONS	1.40 2.69	0.74 5.04	2.21 2.04	1.21 1.09	2.34 0.51	4.61 1.34
RUNOFF						

TOTALS	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
STD. DEVIATIONS	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
EVAPOTRANSPIRATION						

TOTALS	1.956 5.174	1.874 5.206	2.695 4.249	1.086 1.978	1.985 1.206	4.314 2.444
STD. DEVIATIONS	0.197 1.036	0.550 1.486	1.080 0.612	0.641 1.061	1.740 0.646	2.050 0.571
LATERAL DRAINAGE FROM LAYER 3						

TOTALS	0.8172 0.7573	0.7289 0.8574	0.7729 1.0029	0.7317 1.1376	0.7340 1.0404	0.7088 1.0471
STD. DEVIATIONS	0.5240 0.4090	0.4575 0.4479	0.4791 0.3535	0.4513 0.3722	0.4496 0.3297	0.4098 0.3218
PERCOLATION FROM LAYER 4						

TOTALS	0.0353 0.0349	0.0320 0.0366	0.0347 0.0393	0.0334 0.0423	0.0342 0.0400	0.0332 0.0409
STD. DEVIATIONS	0.0126 0.0102	0.0112 0.0107	0.0117 0.0063	0.0110 0.0064	0.0110 0.0058	0.0102 0.0057

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS				1 THROUGH	5
				(INCHES)	(CU. FT.)
				PERCENT	
PRECIPITATION	49.30	(5.046)	894795.	100.00	
RUNOFF	0.000	(0.000)	0.	0.00	
EVAPOTRANSPIRATION	34.167	(2.333)	620135.	69.30	
LATERAL DRAINAGE FROM LAYER 3	10.3363	(4.8545)	187605.	20.97	
PERCOLATION FROM LAYER 4	0.4369	(0.1111)	7929.	0.89	
CHANGE IN WATER STORAGE	4.360	(6.110)	79126.	8.84	

PEAK DAILY VALUES FOR YEARS			1 THROUGH	5
			(INCHES)	(CU. FT.)
PRECIPITATION			3.17	57535.5
RUNOFF			0.000	0.0
LATERAL DRAINAGE FROM LAYER 3			0.0489	888.3
PERCOLATION FROM LAYER 4			0.0016	28.1
HEAD ON LAYER 4			170.8	
SNOW WATER			0.00	0.0
MAXIMUM VEG. SOIL WATER (VOL/VOL)			0.3959	
MINIMUM VEG. SOIL WATER (VOL/VOL)			0.0893	

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	1.75	0.2922
2	94.33	0.3930
3	12.02	0.3339
4	19.20	0.4000
SNOW WATER	0.00	

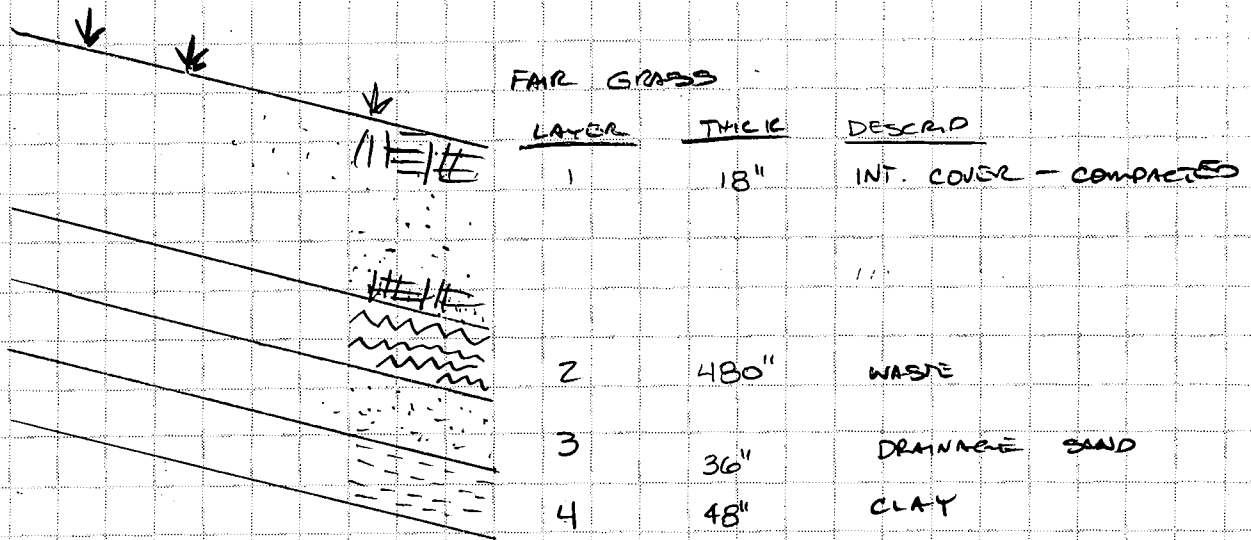
ATTACHMENT 2
INTERMEDIATELY CLOSED CELL HELP MODEL DATA

SCS ENGINEERS

SHEET _____ OF _____

CLIENT	HILLS. CNTY	PROJECT	SELF	JOB NO.	0990018.34
SUBJECT	HELP MODEL ANALYSIS	BY	KAS	DATE	5-18-94
		CHECKED	(initials)	DATE	5/24/94

INTERMEDIATELY CAPPED PHASES (CONCEPTUAL CROSS SECTION)



MODEL FOR 1 UNIT ACRE:

PRECIP = 49.3 INCHES

RUNOFF = 6%

ET = 89%

LEACHATE = 2,564 + 696 + 6,511 CF/YR/AC

= 9,771 CF/YR/AC

= 200 gal/day/acre

⇒ USE 200 gal/day/acre for each acre of intermediately closed landfill area.

HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: SELF

PROJECT NO.: 0990018.34

LOCATION: TAMPA, FL

DATE: APRIL 26, 1994

ANALYSIS DESCRIPTION: INTERMEDIATELY CLOSED
LANDFILL

ENGINEER: KARL SCHMIT

FILENAME: INT49.OUT

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/ VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CM/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	WT. COVER	18"	1	7	(These	values were	generated	by the	computer)
2	WASTE	480"	1	18					
3	DRAINAGE SAND	36"	2	2					
4	CLAY BOTTOM LINER	48"	3	17					
5									
6									
7									
8									
9									

Additional Computational Information

Rainfall Generation: (Default Synthetic ☒ Years 5

Maximum Leaf Index: 2.0 (FAIR GRASS)

Evaporative Zone Depth = 22 in

Growing Season: Start: 0 End: 367

Soil Water Content (If not initialized by Computer):

Vegetative Cover: Bare/Poor/Fair/Good/Excellent

SCS Curve Number = 74

Liner Leakage Fraction = N/A

Potential Runoff Fraction = 50%

Landfill Area = 43560 sf

Cap Slope = N/A %

Cap Drainage Length = N/A ft

Bottom Liner Slope = 0.40 %

Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 3.17 in ; Average Annual = 49.30 in

Average Annual Percolation = 696 cf/year

Peak Daily Lateral Drainage = 18 cf/day

Average Annual Lateral Drainage = 2564 cf/year

Peak Daily Runoff = 3,971 cf/day

Average Annual Runoff = 10,205 cf/year

Peak Daily Percolation from Bottom Liner = 3 cf/day

 SOUTHEAST LANDFILL
 HILLSBOROUGH COUNTY, FLORIDA
 INTERMEDIATE COVER (REPRESENTATIVE ONE ACRE UNIT)
 JUNE 7, 1994

FAIR GRASS

LAYER 1

VERTICAL PERCOLATION LAYER

THICKNESS	=	18.00 INCHES
POROSITY	=	0.3808 VOL/VOL
FIELD CAPACITY	=	0.1924 VOL/VOL
WILTING POINT	=	0.1043 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1924 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000077999997 CM/SEC

LAYER 2

VERTICAL PERCOLATION LAYER

THICKNESS	=	480.00 INCHES
POROSITY	=	0.5200 VOL/VOL
FIELD CAPACITY	=	0.2942 VOL/VOL
WILTING POINT	=	0.1400 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000199999995 CM/SEC

LAYER 3

LATERAL DRAINAGE LAYER

THICKNESS	=	36.00 INCHES
POROSITY	=	0.3339 VOL/VOL
FIELD CAPACITY	=	0.0529 VOL/VOL
WILTING POINT	=	0.0245 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0529 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000289999996 CM/SEC
SLOPE	=	0.40 PERCENT
DRAINAGE LENGTH	=	200.0 FEET

LAYER 4

BARRIER SOIL LINER

THICKNESS	=	48.00 INCHES
POROSITY	=	0.4000 VOL/VOL
FIELD CAPACITY	=	0.3560 VOL/VOL
WILTING POINT	=	0.2899 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000000010000 CM/SEC

GENERAL SIMULATION DATA

SCS RUNOFF CURVE NUMBER	=	74.26
TOTAL AREA OF COVER	=	43560. SQ FT
EVAPORATIVE ZONE DEPTH	=	22.00 INCHES
UPPER LIMIT VEG. STORAGE	=	8.9344 INCHES
INITIAL VEG. STORAGE	=	5.5009 INCHES
INITIAL SNOW WATER CONTENT	=	0.0000 INCHES
INITIAL TOTAL WATER STORAGE IN SOIL AND WASTE LAYERS	=	165.7836 INCHES

SOIL WATER CONTENT INITIALIZED BY PROGRAM.

CLIMATOLOGICAL DATA

SYNTHETIC RAINFALL WITH SYNTHETIC DAILY TEMPERATURES AND
SOLAR RADIATION FOR TAMPA FLORIDA

MAXIMUM LEAF AREA INDEX	=	2.00
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367

NORMAL MEAN MONTHLY TEMPERATURES, DEGREES FAHRENHEIT

JAN/JUL -----	FEB/AUG -----	MAR/SEP -----	APR/OCT -----	MAY/NOV -----	JUN/DEC -----
59.80	60.80	66.20	71.60	77.10	80.90
82.20	82.20	80.90	74.50	66.70	61.30

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION

TOTALS	2.34	2.66	2.80	1.03	2.65	6.11
	8.69	8.48	7.39	1.89	0.76	4.50

STD. DEVIATIONS	1.40	0.74	2.21	1.21	2.34	4.61
	2.69	5.04	2.04	1.09	0.51	1.34

RUNOFF

TOTALS	0.022	0.126	0.176	0.000	0.098	0.349
	0.623	0.701	0.423	0.012	0.000	0.280

STD. DEVIATIONS	0.050	0.219	0.381	0.000	0.148	0.740
	0.809	0.881	0.443	0.027	0.000	0.283

EVAPOTRANSPIRATION

TOTALS	2.336	3.291	3.196	1.420	2.524	4.587
	6.598	6.953	5.687	3.907	0.860	2.439

STD. DEVIATIONS	0.297	0.835	0.832	1.087	2.301	2.424
	1.918	1.619	0.921	1.194	0.842	0.419

LATERAL DRAINAGE FROM LAYER 3

TOTALS	0.0447	0.0424	0.0482	0.0574	0.0616	0.0600
	0.0625	0.0630	0.0617	0.0678	0.0669	0.0701

STD. DEVIATIONS	0.0336	0.0312	0.0347	0.0513	0.0547	0.0509
	0.0506	0.0486	0.0453	0.0509	0.0481	0.0477

PERCOLATION FROM LAYER 4

TOTALS	0.0154	0.0141	0.0156	0.0156	0.0163	0.0158
	0.0164	0.0165	0.0160	0.0167	0.0163	0.0169

STD. DEVIATIONS	0.0023	0.0022	0.0023	0.0029	0.0031	0.0029
	0.0028	0.0027	0.0025	0.0028	0.0026	0.0026

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS				1 THROUGH	5
				(INCHES)	(CU. FT.)
				PERCENT	
PRECIPITATION	49.30	(5.046)	178959.	100.00	
RUNOFF	2.811	(1.084)	10205.	5.70	
EVAPOTRANSPIRATION	43.797	(5.037)	158984.	88.84	
LATERAL DRAINAGE FROM LAYER 3	0.7064	(0.5451)	2564.	1.43	
PERCOLATION FROM LAYER 4	0.1916	(0.0314)	696.	0.39	
CHANGE IN WATER STORAGE	1.794	(1.085)	6511.	3.64	

PEAK DAILY VALUES FOR YEARS			1 THROUGH	5
			(INCHES)	(CU. FT.)
PRECIPITATION			3.17	11507.1
RUNOFF			1.094	3971.5
LATERAL DRAINAGE FROM LAYER 3			0.0050	18.2
PERCOLATION FROM LAYER 4			0.0007	2.5
HEAD ON LAYER 4			48.0	
SNOW WATER			0.00	0.0
MAXIMUM VEG. SOIL WATER (VOL/VOL)			0.3709	
MINIMUM VEG. SOIL WATER (VOL/VOL)			0.1104	

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	3.97	0.2208
2	142.65	0.2972
3	12.02	0.3339
4	19.20	0.4000
SNOW WATER	0.00	

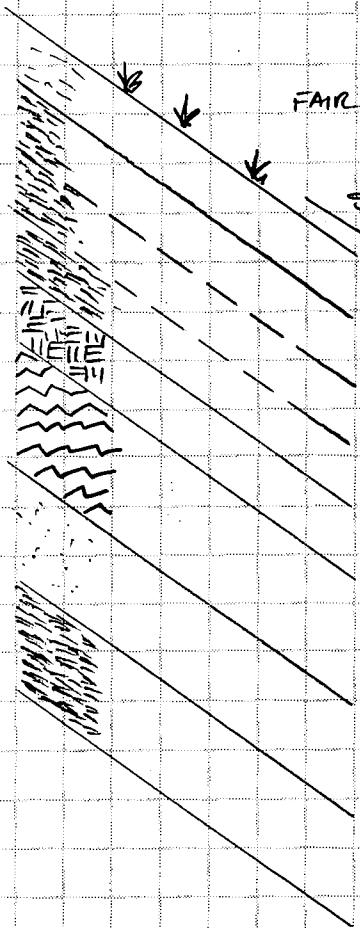
ATTACHMENT 3
SIDESLOPES (CLOSED CELL) HELP MODEL DATA

SCS ENGINEERS

SHEET _____ OF _____

CLIENT HILLS CNTY	PROJECT SELF	JOB NO. 0990013.34
SUBJECT HELP MODEL ANALYSIS	BY KAS	DATE 5/18/94
	CHECKED KAS	DATE 5/24/94

SIDE SLOPES (CONCEPTUAL CROSS-SECTION)



LAYER #	THICK.	DESCRIP.
1	3"	SEEDS LAYER (NOT COMPACTED) 18" INT. CAP LAYER
2	5"	
3	5"	
4	5"	
5	6"	DAILY COVER
6	120"	10' WASTE
7	36"	DRAINAGE SAND
8	48"	BOTTOM LINER

PRECIP = 49.30 INCHES

RUNOFF = 26%

ET = 72%

LEACHATE = 24,998 + 13,434 + 60,244 CF/YR
 = 98,676 CF/YR / 22 ACRES
 = 2,022 gal/day/acre
 = 92 gal/day/acre

(INCLUDE PERC. VOLUME DUE TO
 CONSOLIDATION, CLAYS HAVE
 A HYDRAULIC GRADIENT THAT
 PREVENTS PERCOLATION).

HELP MODEL PROGRAM INITIALIZATION DATA

PROJECT NAME: SELF

PROJECT NO.: 0990018.34

LOCATION: TAMPA, FLORIDA

DATE: APRIL 26, 1994

ANALYSIS DESCRIPTION: 22 AC OF SIDESLOPE

ENGINEER: KARL SCHMIT

FILENAME: SLOPED49.OUT

SOIL LAYER NUMBER	SOIL DESCRIPTION	LAYER THICKNESS (INCHES)	LAYER TYPE 1=VERTICAL 2=LATERAL 3=SOIL LINER 4=SOIL/GEOM.	SOIL TEXTURE (DEFAULT VALUES FROM MODEL)	WILTING POINT (VOL/VOL)	FIELD CAPACITY (VOL/VOL)	POROSITY (VOL VOIDS/VOL TOTAL)	HYDRAULIC CONDUCTIVITY (CM/SEC)	INITIAL WATER CONTENT (VOL/VOL)
1	SEEDER LAYER	3"	1	15	(These	values were	generated	by the	computer)
2	UPPER CAP	5"	1	15	}				
3	MID CAP	5"	2	15				$8.3 \times 10^{-6}^*$	
4	LOWER CAP	5"	3	15					
5	DAILY COVER	6"	1	5					
6	WASTE LAYER	120"	1	18					
7	DRAINAGE SAND	36"	2	2					
8	PHOS. CLAY	48"	3	17					
9									

Additional Computational Information

Rainfall Generation: (Default Synthetic ☒ Years 5

Maximum Leaf Index: 2.0

Evaporative Zone Depth = 13 in

Growing Season: Start: 0 End: 367

Soil Water Content (If not initialized by Computer):

Vegetative Cover: Bare/Poor/Fair/Good/Excellent

SCS Curve Number = 90

Liner Leakage Fraction = N/A

Potential Runoff Fraction = N/A

Landfill Area = 958,320 sf

Cap Slope = 25 % (4:1)

Cap Drainage Length = 80 ft

Bottom Liner Slope = 0.40 %

Bottom Liner Drainage Length = 200 ft

HELP Analysis Results

Precipitation: Peak Daily = 3.17 in ; Average Annual = 49.30 in

Average Annual Percolation = 13,434 cf/year

Peak Daily Lateral Drainage = 117 cf/day

Average Annual Lateral Drainage = 24,998 cf/year

Peak Daily Runoff = 168,435 cf/day

Average Annual Runoff = 1,012,497 cf/year

Peak Daily Percolation from Bottom Liner = 41 cf/day

* MEASURED VALUE, LAW Engineering, 1990.

COMPARE

1 -	3 layers @ 5" @	EVAP = 8"	ET = 72.8% (LAT) ₄ = 32,509 CF/YR
→ 2 -	3 layers @ 5" @	EVAP = 13"	ET = 77.3% (LAT) ₇ = 60,403 CF/YR
3 -	2 layers 3"/15"	EVAP = 13"	ET = 55.12% (LAT) ₅ = 269,038 CF/YR

SOURCE: APPENDIX E - OPS PERMIT RENEWAL RESPONSES DATED MARCH 17, 1989.
 (LAW ENG REPORTS ON PERM. DATED SEPT 2, 1988)

TEST NO.	DATE SAMPLED	LOCATION	PERMEABILITY TEST RESULT (CM/SEC)	AVERAGE (CM/SEC)
40	4/21/88	Second Lift Bottom of E. Slope at Sta. 4350+00, Acre 15	5.3×10^{-6}	8.4×10^{-6}
41	5/4/88	Second Lift Bottom of E. Slope at Sta. 4700+00, Acre 16	1.3×10^{-5}	8.6×10^{-6}
42	5/4/88	Second Lift Bottom of E. Slope at Sta. 4950+00, Acre 17	7.5×10^{-6}	8.5×10^{-6}
43	5/4/88	Second Lift Bottom of N. Slope at Sta. 5350+00, Acre 18	5.4×10^{-6}	8.5×10^{-6}
44	5/4/88	Second Lift Top of N. Slope at Sta. 5650+00, Acre 19	2.2×10^{-6}	8.3×10^{-6}
45	5/4/88	Second Lift Top of N. Slope at Sta. 5800+00, Acre 20	3.7×10^{-6}	8.2×10^{-6}
46	5/6/88	Second Lift Top of S. Slope at Sta. 3400+00, Acre 12	1.1×10^{-5}	8.2×10^{-6}
47	5/6/88	Second Lift Middle of N. Slope at Sta. 6250+00, Acre 21	9.1×10^{-6}	8.3×10^{-6} cm/sec

* Test result not included in average. Acre represented by this test was recompacted and retested.

 SOUTHEAST LANDFILL
 HILLSBOROUGH COUNTY, FLORIDA
 SIDE SLOPES - 22 ACRES W/ 18" CLAY LAYER (TOP 3" SEEDED)
 JUNE 7, 1994

FAIR GRASS

LAYER 1

VERTICAL PERCOLATION LAYER

THICKNESS	=	3.00 INCHES
POROSITY	=	0.4750 VOL/VOL
FIELD CAPACITY	=	0.3777 VOL/VOL
WILTING POINT	=	0.2648 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3777 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000050999999 CM/SEC

LAYER 2

VERTICAL PERCOLATION LAYER

THICKNESS	=	5.00 INCHES
POROSITY	=	0.4224 VOL/VOL
FIELD CAPACITY	=	0.3495 VOL/VOL
WILTING POINT	=	0.2648 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3495 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000008300000 CM/SEC

LAYER 3

LATERAL DRAINAGE LAYER

THICKNESS	=	5.00 INCHES
POROSITY	=	0.4224 VOL/VOL
FIELD CAPACITY	=	0.3495 VOL/VOL
WILTING POINT	=	0.2648 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3495 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000008300000 CM/SEC
SLOPE	=	25.00 PERCENT
DRAINAGE LENGTH	=	80.0 FEET

LAYER 4

BARRIER SOIL LINER

THICKNESS	=	5.00 INCHES
POROSITY	=	0.4224 VOL/VOL
FIELD CAPACITY	=	0.3495 VOL/VOL
WILTING POINT	=	0.2648 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4224 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000008300000 CM/SEC

LAYER 5

VERTICAL PERCOLATION LAYER

THICKNESS	=	6.00 INCHES
POROSITY	=	0.3573 VOL/VOL
FIELD CAPACITY	=	0.1127 VOL/VOL
WILTING POINT	=	0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1127 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000050000002 CM/SEC

LAYER 6

VERTICAL PERCOLATION LAYER

THICKNESS	=	120.00 INCHES
POROSITY	=	0.5200 VOL/VOL
FIELD CAPACITY	=	0.2942 VOL/VOL
WILTING POINT	=	0.1400 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2942 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000199999995 CM/SEC

LAYER 7

LATERAL DRAINAGE LAYER

THICKNESS	=	36.00 INCHES
POROSITY	=	0.3339 VOL/VOL
FIELD CAPACITY	=	0.0529 VOL/VOL
WILTING POINT	=	0.0245 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0529 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000289999996 CM/SEC
SLOPE	=	0.40 PERCENT
DRAINAGE LENGTH	=	200.0 FEET

LAYER 8

BARRIER SOIL LINER

THICKNESS	=	48.00 INCHES
POROSITY	=	0.4000 VOL/VOL
FIELD CAPACITY	=	0.3560 VOL/VOL
WILTING POINT	=	0.2899 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4000 VOL/VOL
SATURATED HYDRAULIC CONDUCTIVITY	=	0.000000010000 CM/SEC

GENERAL SIMULATION DATA

SCS RUNOFF CURVE NUMBER	=	89.84
TOTAL AREA OF COVER	=	958320. SQ FT
EVAPORATIVE ZONE DEPTH	=	13.00 INCHES
UPPER LIMIT VEG. STORAGE	=	5.6490 INCHES
INITIAL VEG. STORAGE	=	4.3177 INCHES
INITIAL SNOW WATER CONTENT	=	0.0000 INCHES
INITIAL TOTAL WATER STORAGE IN SOIL AND WASTE LAYERS	=	63.8247 INCHES

SOIL WATER CONTENT INITIALIZED BY PROGRAM.

CLIMATOLOGICAL DATA

SYNTHETIC RAINFALL WITH SYNTHETIC DAILY TEMPERATURES AND
SOLAR RADIATION FOR TAMPA FLORIDA

MAXIMUM LEAF AREA INDEX	=	2.00
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367

NORMAL MEAN MONTHLY TEMPERATURES, DEGREES FAHRENHEIT

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
-----	-----	-----	-----	-----	-----
59.80	60.80	66.20	71.60	77.10	80.90
82.20	82.20	80.90	74.50	66.70	61.30

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5						
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC

PRECIPITATION						

TOTALS	2.34 8.69	2.66 8.48	2.80 7.39	1.03 1.89	2.65 0.76	6.11 4.50
STD. DEVIATIONS	1.40 2.69	0.74 5.04	2.21 2.04	1.21 1.09	2.34 0.51	4.61 1.34
RUNOFF						

TOTALS	0.405 2.724	0.435 2.648	0.580 2.417	0.047 0.138	0.470 0.056	1.345 1.414
STD. DEVIATIONS	0.734 1.732	0.599 2.694	0.882 1.664	0.066 0.148	0.754 0.051	2.167 0.487
EVAPOTRANSPIRATION						

TOTALS	2.137 5.483	2.092 5.660	2.583 4.895	1.037 2.100	2.251 0.712	4.302 2.134
STD. DEVIATIONS	0.452 1.402	0.527 1.531	1.019 1.020	0.881 1.353	1.828 0.609	2.415 0.520
LATERAL DRAINAGE FROM LAYER 3						

TOTALS	0.0000 0.0000	0.0000 0.0000	0.0000 0.0001	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000
STD. DEVIATIONS	0.0000 0.0001	0.0000 0.0000	0.0000 0.0001	0.0000 0.0001	0.0000 0.0000	0.0000 0.0001
PERCOLATION FROM LAYER 4						

TOTALS	0.0421 0.2301	0.0124 0.0676	0.0000 0.2934	0.0000 0.1352	0.0000 0.0000	0.0000 0.2667
STD. DEVIATIONS	0.0434 0.3317	0.0277 0.0811	0.0000 0.4066	0.0000 0.3023	0.0000 0.0000	0.0000 0.5017
LATERAL DRAINAGE FROM LAYER 7						

TOTALS	0.0227 0.0269	0.0214 0.0275	0.0242 0.0273	0.0241 0.0288	0.0256 0.0286	0.0254 0.0302
STD. DEVIATIONS	0.0152 0.0148	0.0140 0.0147	0.0152 0.0141	0.0146 0.0144	0.0150 0.0138	0.0144 0.0140
PERCOLATION FROM LAYER 8						

TOTALS	0.0139 0.0143	0.0127 0.0144	0.0141 0.0140	0.0137 0.0145	0.0142 0.0141	0.0138 0.0146
STD. DEVIATIONS	0.0015 0.0013	0.0014 0.0013	0.0014 0.0012	0.0014 0.0012	0.0014 0.0012	0.0013 0.0012

 AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	(INCHES)	(CU. FT.)	PERCENT
PRECIPITATION	49.30 (5.046)	3937098.	100.00
RUNOFF	12.678 (2.771)	1012497.	25.72
EVAPOTRANSPIRATION	35.386 (2.950)	2825910.	71.78
LATERAL DRAINAGE FROM LAYER 3	0.0002 (0.0001)	14.	0.00
PERCOLATION FROM LAYER 4	1.0476 (0.7819)	83658.	2.12
LATERAL DRAINAGE FROM LAYER 7	0.3130 (0.1740)	24998.	0.63
PERCOLATION FROM LAYER 8	0.1682 (0.0159)	13434.	0.34
CHANGE IN WATER STORAGE	0.754 (0.852)	60244.	1.53

 PEAK DAILY VALUES FOR YEARS 1 THROUGH 5

	(INCHES)	(CU. FT.)
PRECIPITATION	3.17	253156.2
RUNOFF	2.109	168435.0
LATERAL DRAINAGE FROM LAYER 3	0.0001	6.5
PERCOLATION FROM LAYER 4	0.2314	18481.4
HEAD ON LAYER 4	0.8	
LATERAL DRAINAGE FROM LAYER 7	0.0015	116.5
PERCOLATION FROM LAYER 8	0.0005	40.7
HEAD ON LAYER 8	23.9	
SNOW WATER	0.00	0.0
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.4232	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.2634	

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
----	-----	-----
1	1.18	0.3924
2	2.08	0.4153
3	1.99	0.3973
4	2.11	0.4224
5	0.98	0.1635
6	32.75	0.2729
7	8.61	0.2392
8	19.20	0.4000
SNOW WATER	0.00	

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl

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Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (*Interim Appointment*)
Jimmie Keel
Robert Taylor (*Interim Appointment*)

Department of Environmental Protection
SOUTHWEST DISTRICT

BY _____

April 28, 1994

Mr. Kim Ford
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Southeast Landfill
Permit No. S029-158504
Quantity Report

Dear Mr. Ford:

The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided along with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of at a wastewater treatment facility.

The rainfall data that the DSW has previously submitted has been incorrectly reported. The person or persons responsible for the reading of the raingauges were incorrectly reading the gauges. The DSW is submitting the rainfall data from the Ruskin and Lakeland weather stations as being representative of the Southeast County Landfill rainfall.

The DSW has a computerized weather station at the Southeast County Facility. We are currently awaiting the purchase of a computer modem, so that the information can be downloaded into a computer program. As soon as the data is available, the DSW will provide the Department of Environmental Protection with a copy of the information.

Mr. Kim Ford
Page Two
April 28, 1994

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,

Patricia V. Berry
Patricia V. Berry
Landfill Services Section Manager
by Sarah Hill

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
MAR 1	13,089	30,853	43,942
MAR 2	0	30,831	30,831
MAR 3	20,355	30,889	51,244
MAR 4	13,005	30,839	43,844
MAR 5	0	30,821	30,821
MAR 6	0	0	0
MAR 7	19,630	0	19,630
MAR 8	19,496	30,791	50,287
MAR 9	19,492	24,640	44,132
MAR 10	19,405	18,515	37,920
MAR 11	20,491	24,670	45,161
MAR 12	0	24,711	24,711
MAR 13	0	0	0
MAR 14	19,938	0	19,938
MAR 15	18,772	0	18,772
MAR 16	0	24,601	24,601
MAR 17	12,863	16,901	29,764
MAR 18	19,249	30,811	50,060
MAR 19	0	30,840	30,840
MAR 20	0	0	0
MAR 21	20,260	0	20,260
MAR 22	19,182	30,980	50,162
MAR 23	0	30,819	30,819
MAR 24	20,496	30,797	51,293
MAR 25	19,166	30,815	49,981
MAR 26	0	37,015	37,015
MAR 27	0	0	0
MAR 28	12,749	0	12,749
MAR 29	0	0	0
MAR 30	0	0	0
<hr/>			
TOTAL	307,638	541,139	848,777

THERE WAS NO RECIRCULATION OF LEACHATE DUE TO SUBTITLE D

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
FEB 1	17,694	30,771	48,465
FEB 2	20,327	30,815	51,142
FEB 3	19,507	30,777	50,284
FEB 4	19,501	30,699	50,200
FEB 5	0	30,828	30,828
FEB 6	0	0	0
FEB 7	19,941	0	19,941
FEB 8	12,783	30,765	43,548
FEB 9	0	30,771	30,771
FEB 10	12,929	30,761	43,690
FEB 11	19,809	30,794	50,603
FEB 12	0	30,861	30,861
FEB 13	0	0	0
FEB 14	20,397	0	20,397
FEB 15	19,268	30,735	50,003
FEB 16	18,893	30,843	49,736
FEB 17	19,607	30,820	50,427
FEB 18	19,161	30,829	49,990
FEB 19	0	30,760	30,760
FEB 20	0	0	0
FEB 21	19,085	30,918	50,003
FEB 22	19,306	0	19,306
FEB 23	19,554	30,750	50,304
FEB 24	19,702	30,804	50,506
FEB 25	6,662	30,785	37,447
FEB 26	0	30,814	30,814
FEB 27	19,710	30,814	50,524
FEB 28	0	0	0

TOTAL	343,836	646,714	990,550

THERE WAS NO RECIRCULATION OF LEACHATE DUE TO SUBTITLE D

DATE 1994	COUNTY HAULED	CONTRACTOR HAULED	DAILY AMT
JAN 1	0	0	0
JAN 2	0	0	0
JAN 3	0	0	0
JAN 4	0	37,112	37,112
JAN 5	0	36,957	36,957
JAN 6	19,363	37,000	56,363
JAN 7	19,010	37,995	57,005
JAN 8	0	36,946	36,946
JAN 9	0	0	0
JAN 10	6,414	0	6,414
JAN 11	0	36,904	36,904
JAN 12	0	36,923	36,923
JAN 13	0	36,920	36,920
JAN 14	0	36,888	36,888
JAN 15	0	36,879	36,879
JAN 16	0	0	0
JAN 17	0	0	0
JAN 18	0	36,961	36,961
JAN 19	0	36,909	36,909
JAN 20	12,947	36,947	49,894
JAN 21	13,515	36,920	50,435
JAN 22	0	36,974	36,974
JAN 23	0	0	0
JAN 24	19,874	0	19,874
JAN 25	19,094	36,846	55,940
JAN 26	6,426	36,949	43,375
JAN 27	19,034	36,967	56,001
JAN 28	12,678	37,074	49,752
JAN 29	0	36,875	36,875
JAN 30	0	0	0
JAN 31	0	0	0
TOTAL	----- 148,355	----- 739,946	888,301

THERE WAS NO RECIRCULATION OF LEACHATE DUE TO SUBTITLE D

Rainfall for period 1 March 1993 to 28 Feb 1994

	<u>RUSKIN</u>	<u>Lakeland</u>
March 93	3.13"	3.17"
Arpil 93	3.57"	3.79"
May 93	3.01"	1.65"
June 93	6.60"	4.76"
July 93	8.84"	7.29"
August 93	4.26"	5.10"
Sept. 93	5.33"	11.01"
Oct. 93	3.43"	3.12"
Nov. 93	.79"	.27"
Dec. 93	1.43"	1.38"
Jan 94	4.67"	4.26"
Feb 94	.89"	2.05"
	<hr/>	<hr/>
TOTAL	45.95"	47.85"



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 25, 1994

Ms. Patricia Berry
Department of Solid Waste
Hillsborough County
Post Office Box 1110
Tampa, Florida 33602

Re: Leachate Quantity Reporting
Permit No.: S029-158504, Hillsborough County

Dear Ms. Berry:

Thank you for your March 21, 1994 letter of inquiry regarding the submittal of leachate data to the DEP. As you requested in our meeting on March 23, 1994, the previously submitted data has been reviewed. The following is an evaluation of that data:

Based on the amount of leachate removed to a WWTP, leachates is generated at a rate of 250 gallons per day per acre for 122 acres of disposal area. This includes 16 acres of open disposal area. Based on similar data from other landfills, an average open acre of landfill generates 1000 to 1500 gallons per day. Assuming the S.E.L.F. generates an average of 1200 g/d/acre for the 16 open acres, only about 100 g/d/acre would be generated from each of the 106 acres having intermediate or final cover. Other data suggests at least 200 g/d/acre is generated from areas having intermediate or final cover rather than the estimated 100 g/d/acre. The amount removed appears to be much less than the amount expected to be generated. If these estimates are correct, is leachate leaking from the disposal areas that cannot be accounted for? Are the rates of removal insufficient and causing an excessive amount of leachate to be stored inside the landfill?

Please continue your evaluation of the leachate quantity data and provide an explanation. These questions should be resolved prior to operation permit renewal.

Ms. Patricia Berry
Department of Solid Waste

March 25, 1994
Page Two

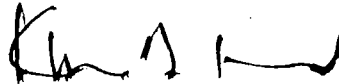
In response to your questions presented in your March 21st letter:

1. Quarterly reporting is acceptable.
2. DEP requests DSW to update the number of open, intermediate, and closed acres as it changes and provide this information quarterly.
3. DEP requests DSW to record rainfall daily to the nearest tenth of an inch and provide this information quarterly.

These reports do help estimate the quantity of leachate to be generated throughout the life of the landfill.

If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Robert Gardner, P.E., SCS Engineers
Robert Butera, P.E., FDEP Tampa
Paul Schipfer, HCEPC

HILLSBOROUGH COUNTY

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Patricia Bear

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Edwin Hunzeker
Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

March 21, 1994

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MAR 22 1994

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Mr. Kim B. Ford, P.E.
Florida Department of Environmental Protection
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Leachate - Southeast County Landfill

Dear Mr. Ford:

The Hillsborough County Department of Solid Waste (DSW) has received your March 2, 1994 letter concerning leachate quantity reports for the Southeast County Landfill (Landfill). Although the DSW intends to provide the information requested by the Florida Department of Environmental Protection (DEP), the DSW would appreciate clarification concerning the frequency and format for the submittals. Also, it appears that the DEP is requesting information previously provided by the DSW.

Listed below is a summary of the correspondence between the DSW and the DEP concerning this subject. The DSW is providing copies of our previous submittals to ensure that the DEP file is complete.

-DEP correspondence dated March 30, 1993 requesting daily leachate amounts from January 1, 1993 through April 1, 1993. This report was due by May 1, 1993. Based on the wording in this correspondence, the DSW was under the impression that the leachate information was to be submitted on a quarterly basis. (Attachment A)

-The DSW April 19, 1993 response, which included the daily reports as well as a summary sheet of the leachate quantities from January 1, 1993 thru March 31, 1993. (Attachment B)

Mr. Kim Ford
March 21, 1994
Page Two

-The DSW July 13, 1993 submittal to the DEP which provided the leachate quantity information from April 1, 1993 thru June 30, 1993. (Attachment C)

-July 13, 1993 telephone conversation between Danielle Nichols of the DEP and Sarah Hill of the DSW to discuss the leachate quarterly reports. Mr Ford had requested that Ms. Nichols call and inform the DSW that the daily leachate sheets did not have to be submitted as long as a daily summary was provided. Ms. Nichols also stated that the DSW's summary sheets were very informative and provided all of the data that was needed.

-DEP September 8, 1993 correspondence regarding some concerns that the DEP had with the DSW's previous reports. The DEP requested verification on the number of active or open acres, intermediate acres and closed acres for the Landfill. The DEP also requested that a Leachate Management Summary Form be completed. (Attachment D)

-The DSW September 23, 1993 submittal providing all information that was requested by the DEP's September 8, 1993 correspondence. (Attachment E)

-The DSW October 8, 1993 submittal to the DEP which provided the leachate quantity information from July 1, 1993 thru September 31, 1993. (Attachment F)

-The DSW January 6, 1994 submittal to the DEP which provided the leachate quantity information from October 1, 1993 thru December 31, 1993. (Attachment G)

Based on the information previously provided by the DSW to the DEP, the DSW is requesting clarification on the following issues:

-Does the DEP require that the leachate quantity information be submitted on a monthly or quarterly basis?

-Does the DEP require that the DSW verify the number of open, intermediate, and closed acres for the Landfill on each leachate quantity report? *only water CHANGED*

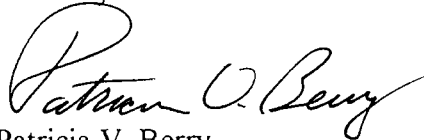
-Does the DEP require that precipitation records be provided with each report? *YES*

Mr. Kim Ford
March 21, 1994
Page Three

The DSW would appreciate the DEP's direction on these issues so that the leachate information for the Landfill can be provided in a timely manner and in the format required by the DEP.

Should you have any questions concerning this correspondence, please contact Sarah Hill at 276-2926.

Sincerely

A handwritten signature in cursive script, appearing to read "Patricia V. Berry".

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

PVB/sh

Attachments

xc: Sarah Hill, DSW
Steve Hamilton, SCS
Paul Schipfer, HCEPC

HILLSBOROUGH COUNTY

Florida

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Frederick B. Karl

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D.E.P.

MAR 18 1994

SOUTHEAST DISTRICT
TAMPA



Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

March 16, 1994

Mr. Kim B. Ford, P.E.
Florida Department of Environmental Protection
Solid Waste Section
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Leachate Levels - Southeast County Landfill

Dear Mr. Ford:

As you are aware, the Hillsborough County Department of Solid Waste (DSW) is proceeding with the construction of an on-site leachate treatment facility for the management of the leachate generated at the County's Southeast County Landfill (SELF). It is anticipated that this facility will be able to provide for the County's long-term leachate management needs. However, over the short term, the DSW has been removing the leachate to County wastewater treatment plants (wwtps). The DSW has been limited by the amount of leachate that the wwtps will accept. In order to evaluate what impact this limited leachate removal may be having on the short-term leachate levels in the SELF, the DSW requested that SCS Engineers (SCS), the County's landfill consultant, survey the leachate levels and the as-built leachate collection sump configuration.

Based on site surveys and SCS' analysis, it appears that the leachate level is approximately five (5) feet above the bottom of the existing temporary sump in Phase IV. This sump currently collects leachate from Phases I, II, III, and IV.

After reviewing the available data concerning the sump, the leachate levels, and the projected settlement of the SELF due to the consolidation of the clay liner, SCS has concluded that portions of the SELF have leachate ponding in excess of the maximum 12-inch depth specified in Chapter 17-701, FAC. This ponding is related to:

- the quantity of leachate actually being generated;
- the short-term limitation in leachate removal;

Mr. Kim Ford
March 16, 1994
Page Two

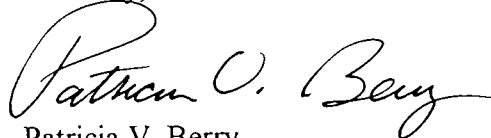
- the amount of water being displaced by the clay consolidation and moving upward into the leachate collection system; and,
- the development of the overall (bowl) configuration of the base liner of the SELF as the clays continue to consolidate.

The DSW and SCS are evaluating techniques to better define the leachate levels and evaluate what, if any, measures can be taken to reduce the leachate levels over the short term. As one measure, the DSW is pursuing an increase in the amount of leachate the wwtps will accept.

The DSW and SCS would like to discuss this short-term leachate management issue with the DEP in our meeting scheduled for March 23, 1994 at 10:00 AM. In addition and more importantly, the DSW and SCS would like to discuss the permit renewal, and how it addresses the proposed final contours of the SELF bottom liner and the possible inapplicability of the 12 inch head depth requirement to this unique liner design.

Please advise should you have any questions concerning this information prior to our March 23, 1994 meeting.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

xc: Daryl H. Smith, DSW
Bob Gardner, SCS
Paul Schipfer, EPC



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 2, 1994

Mr. Daryl Smith
Hillsborough County Solid Waste Department
PO Box 1110
Tampa, FL 33601

Re: Southeast Landfill
Permit No. S029-158504
Leachate Quantity Reports

Dear Mr. Smith:

FAC Rule 17-701.500(8)(g) requires that "precipitation records shall be maintained and used by the permittee to compare with leachate generation rates". Leachate/water balance data should be kept on a spreadsheet format and provided monthly to this office. Please verify the number of open, intermediate, and closed acres. Please provide daily records from January 1, 1994 for the following:

- * Quantities of leachate collected
- * Quantities of leachate stored or impounded
- * Quantities of leachate recirculated
- * Quantities of leachate hauled or piped to a WWTP

This information will be evaluated by the Department. Design or operational changes may be needed to prevent unauthorized discharges or excessive head over lined disposal areas. If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Paul Schipfer, HCEPC
Patricia Berry, Hillsborough County
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee

HILLSBOROUGH COUNTY

Florida

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Frederick B. Karl

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January 6, 1994

Senior County Administrator
Patricia Bean

Assistant County Administrators
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Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

Mr. Kim Ford
Florida Department of Environmental Protection
3804 Coconut Palm
Tampa, Florida 33619

D.E.P.

MAR 22 1994

SOUTHWEST DISTRICT
TAMPA

RE: Southeast Landfill
Permit No. SO29-158504
Quantity Report

Dear Mr. Ford:

In accordance with your request dated March 30, 1993, the Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided with the quantities of leachate that were disposed of by the County and the Contractor. There has been no recirculation of leachate during this quarter due to the Subtitle D Regulations. The leachate was disposed of at a wastewater treatment facility.

Should you have any questions concerning this information, please contact Sarah Hill at 276-2926.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

Patricia V. Berry
Landfill Services Section Manager

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	*RECIRCULATED	DAILY AMT
OCT 1	19,197	36,970	0	56,167
OCT 2	0	36,976	0	36,976
OCT 3	0	0	0	0
OCT 4	19,212	0	0	19,212
OCT 5	12,717	36,936	0	49,653
OCT 6	19,800	36,986	0	56,786
OCT 7	19,154	36,841	0	55,995
OCT 8	12,777	24,563	0	37,340
OCT 9	0	36,835	0	36,835
OCT 10	0	0	0	0
OCT 11	0	0	0	0
OCT 12	12,776	36,790	0	49,566
OCT 13	0	36,741	0	36,741
OCT 14	12,695	36,825	0	49,520
OCT 15	0	36,765	0	36,765
OCT 16	0	36,777	0	36,777
OCT 17	0	0	0	0
OCT 18	18,959	0	0	18,959
OCT 19	19,096	36,904	0	56,000
OCT 20	0	36,960	0	36,960
OCT 21	0	18,588	0	18,588
OCT 22	0	37,051	0	37,051
OCT 23	0	36,898	0	36,898
OCT 24	0	0	0	0
OCT 25	12,846	0	0	12,846
OCT 26	20,298	18,608	0	38,906
OCT 27	19,525	37,043	0	56,568
OCT 28	12,813	37,218	0	50,031
OCT 29	6,456	37,053	0	43,509
OCT 30	0	37,134	0	37,134
=====				
	238,321	763,462	0	1,001,783

AS OF OCTOBER 9, 1993 SUBTITLE D PROHIBITS LEACHATE BEING RECIRCULATED

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	*RECIRCULATED	DAILY AMT
NOV 1	12,647	0	0	12,647
NOV 2	19,138	36,669	0	55,807
NOV 3	19,044	36,733	0	55,777
NOV 4	18,972	36,837	0	55,809
NOV 5	19,293	36,802	0	56,095
NOV 6	0	36,926	0	36,926
NOV 7	0	0	0	0
NOV 8	19,247	0	0	19,247
NOV 9	19,232	36,754	0	55,986
NOV 10	6,381	37,045	0	43,426
NOV 11	0	30,660	0	30,660
NOV 12	10,883	36,703	0	47,586
NOV 13	0	36,808	0	36,808
NOV 14	0	0	0	0
NOV 15	0	0	0	0
NOV 16	5,378	36,831	0	42,209
NOV 17	17,062	18,748	0	35,810
NOV 18	5,647	31,026	0	36,673
NOV 19	0	30,679	0	30,679
NOV 20	0	36,957	0	36,957
NOV 21	0	0	0	0
NOV 22	12,308	0	0	12,308
NOV 23	0	36,598	0	36,598
NOV 24	0	36,714	0	36,714
NOV 25	0	0	0	0
NOV 26	0	36,972	0	36,972
NOV 27	0	37,110	0	37,110
NOV 28	0	0	0	0
NOV 29	13,018	0	0	13,018
NOV 30	12,573	31,012	0	43,585
=====	210,823	694,584	0	905,407

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	*RECIRCULATED	DAILY AMT
DEC 1	6,419	37,489		43,908
DEC 2	13,247	37,176		50,423
DEC 3	19,542	37,074		56,616
DEC 4	0	24,774		24,774
DEC 5	0	0		0
DEC 6	19,212	0		19,212
DEC 7	12,935	36,957		49,892
DEC 8	19,180	36,964		56,144
DEC 9	18,961	36,987		55,948
DEC 10	19,180	36,939		56,119
DEC 11	0	37,037		37,037
DEC 12	0	0		0
DEC 13	20,147	0		20,147
DEC 14	19,136	37,163		56,299
DEC 15	19,262	37,030		56,292
DEC 16	19,954	37,010		56,964
DEC 17	12,792	36,941		49,733
DEC 18	0	37,195		37,195
DEC 19	0	0		0
DEC 20	19,614	36,893		56,507
DEC 21	19,525	36,957		56,482
DEC 22	0	37,041		37,041
DEC 23	0	37,099		37,099
DEC 24	5,578	37,050		42,628
DEC 25	0	0		0
DEC 26	0	0		0
DEC 27	19,919	37,019		56,938
DEC 28	12,613	36,935		49,548
DEC 29	12,878	36,941		49,819
DEC 30	0	36,957		36,957
DEC 31	0	37,025		37,025
	=====	=====	=====	=====
	310,094	876,653	0	

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl

BOARD OF COUNTY COMMISSIONERS

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October 8, 1993

Senior County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

Mr. Kim Ford
Florida Department of Environmental Protection
3804 Coconut Palm
Tampa, Florida 33619

D.E.P.

MAR 22 1994

TAMPA

RE: Southeast Landfill
Permit No. S029-158504
Quantity Report

Dear Mr. Ford:

The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of either at a wastewater treatment facility or recirculated by the landfill Contractor.

Should you have any questions concerning this information, please contact Sarah Hill at 744-5680.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

Patricia V. Berry
Landfill Services Section Manager

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT
SEPT 1	12,592	24,622	0	37,214
SEPT 2	0	24,666	17,000	41,666
SEPT 3	0	24,621	17,000	41,621
SEPT 4	0	24,562	0	24,562
SEPT 5	0	0	0	0
SEPT 6	0	0	0	0
SEPT 7	18,735	24,646	0	43,381
SEPT 8	18,840	24,613	0	43,453
SEPT 9	18,780	24,536	0	43,316
SEPT 10	18,900	24,693	0	43,593
SEPT 11	0	24,651	0	24,651
SEPT 12	0	0	0	0
SEPT 13	18,840	0	8,500	27,340
SEPT 14	6,290	24,592	0	30,882
SEPT 15	0	24,647	17,000	41,647
SEPT 16	19,220	24,671	0	43,891
SEPT 17	18,770	24,623	8,500	51,893
SEPT 18	0	36,880	0	36,880
SEPT 19	0	0	0	0
SEPT 20	18,844	0	25,500	44,344
SEPT 21	18,898	36,964	25,500	81,362
SEPT 22	19,091	36,872	8,500	64,463
SEPT 23	18,758	37,060	15,000	70,818
SEPT 24	0	37,016	15,000	52,016
SEPT 25	0	36,941	15,000	51,941
SEPT 26	0	0	0	0
SEPT 27	19,694	0	0	19,694
SEPT 28	19,025	24,819	0	43,844
SEPT 29	13,009	36,997	0	50,006
SEPT 30	19,625	36,881	34,000	90,506
SEPT 31	0	0	0	0
=====	=====	=====	=====	=====
	297,911	640,573	206,500	1,144,984

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT
AUG 1	0	0	0	0
AUG 2	12,888	0	25,500	38,388
AUG 3	19,471	24,382	0	43,853
AUG 4	18,984	24,444	0	43,428
AUG 5	18,786	24,494	17,000	60,280
AUG 6	18,763	24,666	34,000	77,429
AUG 7	0	24,448	25,500	49,948
AUG 8	0	0	0	0
AUG 9	12,557	0	34,000	46,557
AUG 10	12,534	24,411	0	36,945
AUG 11	18,935	24,500	25,500	68,935
AUG 12	0	24,487	34,000	58,487
AUG 13	12,547	24,534	42,500	79,581
AUG 14	0	24,434	0	24,434
AUG 15	0	0	0	0
AUG 16	19,014	0	0	19,014
AUG 17	0	24,560	0	24,560
AUG 18	0	18,704	0	18,704
AUG 19	0	30,496	25,500	55,996
AUG 20	0	24,599	25,500	50,099
AUG 21	0	24,939	17,000	41,939
AUG 22	0	0	0	0
AUG 23	0	0	25,500	25,500
AUG 24	12,682	24,643	0	37,325
AUG 25	0	24,660	0	24,660
AUG 26	12,900	24,660	0	37,560
AUG 27	18,964	24,596	0	43,560
AUG 28	0	24,590	0	24,590
AUG 29	0	0	0	0
AUG 30	19,044	0	0	19,044
AUG 31	18,854	24,550	0	43,404
=====	=====	=====	=====	=====
	246,923	515,797	331,500	1,094,220

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT
JULY 1	26,144	24,370	17,000	67,514
JULY 2	0	24,321	12,000	36,321
JULY 3	0	24,333	8,500	32,833
JULY 4	0	0	0	0
JULY 5	0	0	0	0
JULY 6	19,322	24,326	17,000	60,648
JULY 7	18,938	24,281	17,000	60,219
JULY 8	12,563	24,842	8,500	45,905
JULY 9	0	24,204	8,500	32,704
JULY 10	0	18,420	8,500	26,920
JULY 11	0	0	0	0
JULY 12	13,330	0	8,500	21,830
JULY 13	26,084	24,425	0	50,509
JULY 14	25,738	24,382	25,500	75,620
JULY 15	25,575	24,498	17,000	67,073
JULY 16	0	24,462	0	24,462
JULY 17	0	24,435	34,000	58,435
JULY 18	0	0	0	0
JULY 19	25,888	0	25,500	51,388
JULY 20	25,519	24,701	25,500	75,720
JULY 21	25,892	24,483	8,500	58,875
JULY 22	12,993	24,540	0	37,533
JULY 23	0	24,645	0	24,645
JULY 24	0	24,394	0	24,394
JULY 25	0	0	0	0
JULY 26	18,711	0	8,500	27,211
JULY 27	18,675	24,374	17,000	60,049
JULY 28	18,764	24,529	17,000	60,293
JULY 29	18,862	24,481	25,500	68,843
JULY 30	18,697	24,380	25,500	68,577
JULY 31	0	24,474	0	24,474
=====	=====	=====	=====	=====
	351,695	556,300	335,000	1,242,995

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl



RECEIVED
SEP 24 1993

Department of Environmental Protection
SOUTHWEST DISTRICT

BY

Senior County Administrator
Patricia Bean

Assistant County Administrators
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Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

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Ed Turanchik

September 23, 1993

Ms. Susan J. Pelz
Solid Waste Section
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: ~~Leachate Management at the Hillsborough County Southeast~~
~~Landfill, Hillsborough County, Florida~~

Dear Ms Pelz:

On September 13, 1993 the Hillsborough County Department of Solid Waste (HCDSW) received a letter from the Florida Department of Environmental Protection (FDEP) requesting information on leachate management practices at the Hillsborough County Southeast Landfill (SELF). On behalf of the HCDSW, SCS Engineers (SCS) recently contacted you to discuss this issue and subsequently prepared the attached letter which we believe provides the requested information.

Should you have any questions please do not hesitate to call.

Very truly yours,

Patricia V. Berry

Patricia V. Berry *Sarah Hill*
Landfill Services Section Manager
Hillsborough County Department of Solid Waste

SCS ENGINEERSSeptember 22, 1993
File No. 0990018.33**RECEIVED**
SEP 24 1993Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____Ms. Patricia V. Berry
Hillsborough County Department of Solid Waste
410 Ware Boulevard, Suite 800
Tampa, Florida 33619Subject: Florida Department of Environmental Protection (FDEP)
Request for Leachate Management Data for Southeast Landfill (SELF)

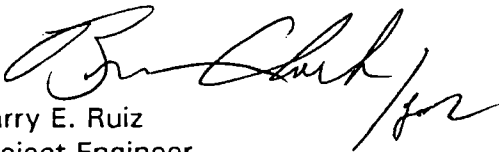
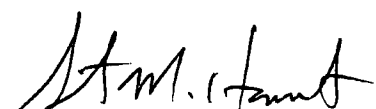
Dear Patty:

SCS Engineers have completed the review of the FDEP letter dated September 8, 1993 by Susan J. Pelz and provides the following information:

- Landfill Acres table (Table 1). This table summarizes the acreage and leachate collection status for the entire SELF.
- Monthly Leachate Report table (Table 2). This table summarizes the SELF monthly leachate quantities and rainfall from March through August 1993. During this period only the 16 acre area in Phase III of the SELF was active, however the rainfall amounts are for the entire 122 acre area of the site that has accepted refuse to date (i.e., Phases I through IV).
- Completed Leachate Management form for the FDEP database.

The County's response also should include copies of the most recent leachate analysis. Based on our review and conversation with Susan J. Pelz, this information and the tables provide sufficient data to respond to their questions.

Very truly yours,


Larry E. Ruiz
Project Engineer
Steven M. Hamilton, R.E.P.
Project Manager
SCS ENGINEERSEnclosures
LER/SMH:lr

**TABLE 1. LANDFILL ACRES
HILLSBOROUGH COUNTY SOUTHEAST LANDFILL**

Phase	Active Acres (±)	Intermediate Acres (±)	Final Acres (±)	Total Acres (±)	Active	Waste	Active Leachate Collection
I	0	31	14	45	NO	YES	YES
II	0	30	8	38	NO	YES	YES
III	16	9	0	25	YES	YES	YES
IV	0	14	0	14	NO	YES	YES
V	0	0	0	14	NO	NO	NO
VI	0	0	0	28	NO	NO	NO

**TABLE 2. MONTHLY LEACHATE REPORT
HILLSBOROUGH COUNTY SOUTHEAST LANDFILL**

Date (1993)	Hauled (gallons)	Recirculated (gallons)	Rain (gallons)
March 1	25,669	0	0
March 2	32,070	18,000	0
March 3	19,119	12,000	3,644,096
March 4	44,616	0	0
March 5	38,159	0	0
March 6	0	8,500	0
March 8	19,062	17,000	0
March 9	38,201	25,500	0
March 10	37,645	25,500	0
March 11	37,349	17,000	0
March 12	24,863	17,000	6,294,347
March 13	0	0	579,742
March 14	0	0	0
March 15	31,977	17,000	0
March 16	38,657	17,000	0
March 17	38,154	0	579,742
March 18	32,139	0	0
March 19	38,445	8,500	0
March 20	0	0	331,281
March 21	0	0	331,281
March 22	38,302	8,500	0
March 23	38,280	0	82,820
March 24	38,233	8,500	33,128
March 25	31,865	25,500	7,288,191
March 26	38,248	0	0
March 27	0	0	0
March 28	0	0	82,820
March 29	38,959	25,500	0
March 30	32,775	25,500	0
March 31	38,205	17,000	6,625,628
Total	790,992	293,500	25,873,079

TABLE 2. MONTHLY LEACHATE REPORT(Continued)

Date (1993)	Hauled (gallons)	Recirculated (gallons)	Rain (gallons)
April 1	39,151	0	2,318,970
April 2	32,151	17,000	0
April 3	0	8,500	165,641
April 4	0	0	1,159,485
April 5	32,211	0	0
April 6	44,984	0	165,641
April 7	44,878	25,000	0
April 8	19,266	25,500	0
April 9	44,855	8,500	662,563
April 10	0	25,500	0
April 11	0	0	0
April 12	51,235	17,000	0
April 13	51,676	46,750	0
April 14	51,082	17,500	0
April 15	51,219	25,500	5,631,784
April 16	38,588	0	0
April 17	19,321	17,000	0
April 18	0	0	0
April 19	52,235	13,000	0
April 20	51,982	25,500	0
April 21	51,696	17,000	0
April 22	51,911	17,000	0
April 23	25,681	17,000	0
April 24	0	17,000	0
April 25	0	0	0
April 26	38,491	8,500	0
April 27	51,274	34,000	0
April 28	52,637	25,500	0
April 29	39,175	17,000	0
April 30	51,954	25,500	0
Total	987,653	450,750	10,104,083

TABLE 2. MONTHLY LEACHATE REPORT(Continued)

Date (1993)	Hauled (gallons)	Recirculated (gallons)	Rain (gallons)
May 1	0	25,500	0
May 2	0	0	0
May 3	45,823	17,000	1,987,689
May 4	51,168	0	331,281
May 5	51,587	17,000	1,987,689
May 6	39,343	0	331,281
May 7	0	51,000	0
May 8	25,892	34,000	0
May 9	0	0	0
May 10	25,315	34,000	0
May 11	52,004	34,000	0
May 12	51,279	34,000	165,641
May 13	51,446	17,000	662,563
May 14	51,019	0	0
May 15	0	68,000	0
May 16	0	0	0
May 17	25,898	25,500	0
May 18	52,112	34,000	0
May 19	45,326	34,000	82,820
May 20	52,199	34,000	0
May 21	25,779	34,000	0
May 22	25,944	59,500	0
May 23	0	0	0
May 24	25,919	51,000	0
May 25	25,877	22,500	0
May 26	38,657	18,000	0
May 27	51,573	24,000	0
May 28	25,633	16,000	993,844
May 29	25,630	0	13,251,257
May 30	0	0	0
May 31	0	0	993,844
Totals	865,423	684,000	20,787,909

TABLE 2. MONTHLY LEACHATE REPORT(Continued)

Date (1993)	Hauled (gallons)	Recirculated (gallons)	Rain (gallons)
June 1	25,730	8,500	622,563
June 2	38,591	51,000	579,742
June 3	52,470	25,500	0
June 4	26,085	17,000	0
June 5	26,065	8,500	0
June 6	0	59,500	0
June 7	6,851	51,000	0
June 8	26,087	51,000	0
June 9	19,294	59,500	0
June 10	26,108	59,500	0
June 11	25,964	34,000	0
June 12	26,057	0	0
June 13	0	0	03,229,994
June 14	25,847	17,000	0
June 15	51,967	34,000	331,281
June 16	52,133	42,500	0
June 17	45,361	42,500	0
June 18	25,616	34,000	0
June 19	25,633	0	0
June 20	0	17,000	1,159,485
June 21	19,667	8,500	0
June 22	25,716	34,000	0
June 23	43,609	17,000	331,281
June 24	24,503	0	1,656,407
June 25	24,415	25,500	0
June 26	24,447	0	331,281
June 27	0	25,500	248,461
June 28	6,607	0	0
June 29	25,013	0	2,070,509
June 30	24,192	0	2,401,790
Total	744,028	722,500	13,002,796

TABLE 2. MONTHLY LEACHATE REPORT(Continued)

Date (1993)	Hauled (gallons)	Recirculated (gallons)	Rain (gallons)
July 1	50,514	17,000	2,650,251
July 2	24,321	12,000	0
July 3	24,333	8,500	0
July 4	0	0	0
July 5	0	0	0
July 6	43,648	17,000	0
July 7	43,219	17,000	0
July 8	37,405	8,500	0
July 9	24,204	8,500	0
July 10	18,420	8,500	1,987,689
July 11	0	0	579,742
July 12	13,330	8,500	13,251,257
July 13	50,509	0	496,922
July 14	50,120	25,500	82,820
July 15	50,073	17,000	0
July 16	24,462	0	6,625,628
July 17	24,435	34,000	0
July 18	0	0	331,281
July 19	25,888	25,500	0
July 20	50,220	25,500	2,981,533
July 21	50,375	8,500	5,631,784
July 22	37,533	0	331,281
July 23	24,645	0	7,950,754
July 24	24,395	0	1,987,689
July 25	0	0	82,820
July 26	18,711	8,500	0
July 27	43,049	17,000	662,563
July 28	43,293	17,000	496,922
July 29	43,343	25,500	0
July 30	43,077	25,500	0
July 31	0	0	1,325,126
Total	883,522	335,000	47,456,064

TABLE 2. MONTHLY LEACHATE REPORT(Continued)

Date (1993)	Hauled (gallons)	Recirculated (gallons)	Rain (gallons)
August 1	0	0	331,281
August 2	12,888	25,500	0
August 3	43,853	0	2,318,970
August 4	43,428	0	82,820
August 5	43,280	17,000	0
August 6	43,429	34,000	0
August 7	24,448	25,500	0
August 8	0	0	0
August 9	12,557	34,000	3,975,377
August 10	36,945	0	1,656,407
August 11	43,435	25,500	0
August 12	24,487	34,000	0
August 13	37,081	42,500	662,563
August 14	24,434	0	1,987,689
August 15	0	0	496,922
August 16	19,014	0	6,625,628
August 17	24,560	0	331,281
August 18	18,704	0	0
August 19	30,496	25,500	0
August 20	24,599	25,500	0
August 21	24,939	17,000	0
August 22	0	0	0
August 23	0	25,500	5,797,425
August 24	12,682	0	165,641
August 25	24,660	0	2,318,970
August 26	37,560	0	11,594,850
August 27	43,560	0	3,975,377
August 28	24,590	0	6,625,628
August 29	0	0	5,963,066
August 30	19,044	0	5,300,503
August 31	43,404	0	1,656,407
Total	738,077	331,500	61,866,806

LEACHATE MANAGEMENT SUMMARY

Landfill Name Hillsborough County Southeast Landfill
Location 15960 CR 672, Picnic, Florida 33503
Phone Number (813) 671-7707

Place an "X" in the applicable spaces.

ON-SITE LEACHATE MANAGEMENT METHODS:

Impoundment Only X
Impoundment with Aeration _____
Impoundment with Evaporation _____
Irrigation of intermediate areas _____
Recirculation (to be terminated 10/9/93) X
Pre-treatment or Other (Describe)

None

OFF-SITE LEACHATE DISPOSAL METHODS:

Wastewater Treatment Plant

County owned, Identify Falkenburg wastewater treatment plant
Valrico wastewater treatment plant

Non-County owned, Identify _____

Other (Describe)

TESTING CRITERIA:

Please attach copies of your most recent leachate analysis.

Prepared By: SCS Engineers Date: 9/22/93

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 9/24/93
Time _____

Subject leachate mgmt
Permit No. _____

County Hillsboro

M Sarah

Telephone No. 744-5680

Representing Hillsboro Co SW

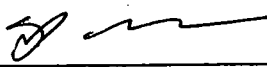
☐ Phone Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

902am She called to see if I got leachate info

1031am I called her - I got info, SCS letter etc.

(continue on another
sheet, if necessary)

Signature 

Title EL

SOUTHWEST DISTRICT
CONVERSATION RECORD

Date 9/22/93
Time _____

Subject SE LF

Permit No. _____

County Hillborough

M David Poe / Larry Ruiz / Scott Hamilton Telephone No. 621-0080

Representing SCS Egn

[] Phone Me ☒ Was Called [] Scheduled Meeting [] Unscheduled Meeting

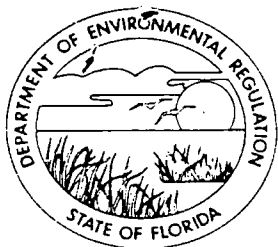
Other Individuals Involved in Conversation/Meeting

1000am County is in the middle of construction ^{of leachate treatment facility} - construction complete July '94
currently constrained by WWTP
can provide rainfall & what they are taking away
are doing some minimal recirc - will stop as of Oct 9th
go back to March of this year -
provide rainfall and leachate trucked away for now
when R plant is online - we will need to update
and know what the process flows are.

(continue on another
sheet, if necessary)

Signature [Signature]

Title ET



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm Dr.

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia Wetherell, Secretary

FAX (local) 744-6090

FAX (SunCom) 542-6090

FAX TRANSMITTAL SHEET

FAXED
1211p

9/13/93
Date

TO:

Sarah Hill

Dept.:

HC SW

Phone:

744-5680

FAX 744-5743

FROM:

Susan Pelz

Dept.:

D.E.R., Tampa Office

Phone:

813-744-6100 or SunCom 542-6100

EXT. 386

OPERATOR:

Phone:

813-744-6100 or SunCom 542-6100

EXT.

SUBJECT:

Please provide leachate data (amt pumped, rainfall, etc.)
as it applies to your facility (format attached).

TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE:

2

RECEIVED BY:

Phone:

DeSoto County Landfill

April

Evaporation Monitoring Report

Date	LIFT STATION		LEACHATE LAGOON					Percentage Rate of Evaporation	* OTHER
	Meter Reading	Gallons Pumped	Staff Level	Rain Data	Rain Gallons	Gallons Sprayed	Evaporation Gallons		
4/01/93	60.89	0.00	12.40	2.10	28,350.00	181,440.00	0.00	0.00%	14,392.00
4/02/93	60.89	0.00	12.30	0.00	0.00	181,440.00	0.00	0.00%	18,447.20
4/03/93	60.89	0.00	12.25	0.00	0.00	156,672.00	6,222.00	3.97%	0.00
4/04/93	60.89	0.00	12.20	0.00	0.00	156,672.00	6,197.00	3.96%	0.00
4/05/93	60.89	0.00	12.30	1.00	13,500.00	156,672.00	1,081.00	0.68%	0.00
4/06/93	60.89	0.00	12.20	0.00	0.00	181,440.00	8,308.20	4.58%	4,111.80
4/07/93	60.89	0.00	12.15	0.00	0.00	156,672.00	6,172.00	3.94%	0.00
4/08/93	60.89	0.00	12.10	0.00	0.00	156,672.00	6,147.00	3.92%	10,280.00
4/09/93	60.89	0.00	12.05	0.00	0.00	181,440.00	6,122.00	3.37%	0.00
4/10/93	60.89	0.00	12.00	0.00	0.00	181,440.00	6,098.00	3.36%	0.00
4/11/93	60.89	0.00	11.95	0.00	0.00	181,440.00	6,073.00	3.35%	0.00
4/12/93	60.89	0.00	11.90	0.00	0.00	181,440.00	6,048.00	3.33%	0.00
4/13/93	60.89	0.00	11.85	0.00	0.00	181,440.00	6,023.00	1.67%	0.00
4/14/93	60.95	1,259.75	11.75	0.00	0.00	181,440.00	12,121.85	6.68%	4,111.80
4/15/93	60.95	0.00	11.70	0.00	0.00	156,672.00	1,838.20	1.17%	4,111.80
4/16/93	60.95	0.00	12.15	2.00	27,000.00	156,672.00	0.00	0.00%	0.00
4/17/93	60.95	0.00	12.10	0.00	0.00	181,440.00	6,147.00	3.39%	0.00
4/18/93	60.95	0.00	12.00	0.00	0.00	181,440.00	12,220.00	6.74%	0.00
4/19/93	60.95	0.00	11.90	0.00	0.00	181,440.00	12,121.00	6.58%	0.00
4/20/93	60.95	0.00	11.85	0.00	0.00	181,440.00	6,023.00	3.32%	0.00
4/21/93	60.95	0.00	11.85	0.00	0.00	181,440.00	0.00	0.00%	4,111.80
4/22/93	60.95	0.00	11.85	0.00	0.00	181,440.00	0.00	0.00%	0.00
4/23/93	60.95	0.00	11.80	0.00	0.00	181,440.00	5,999.00	3.31%	0.00
4/24/93	60.95	0.00	11.80	0.00	0.00	181,440.00	0.00	0.00%	0.00
4/25/93	60.95	0.00	11.75	0.00	0.00	181,440.00	5,975.00	3.29%	0.00
4/26/93	60.95	0.00	11.70	0.00	0.00	156,672.00	5,950.00	3.80%	0.00
4/27/93	60.95	0.00	11.65	0.00	0.00	156,672.00	5,925.00	3.78%	0.00
4/28/93	60.95	0.00	11.60	0.00	0.00	156,672.00	5,901.00	3.77%	0.00
4/29/93	60.95	0.00	11.60	0.00	0.00	181,440.00	7,983.36	4.40%	0.00
4/30/93	60.95	0.00	11.55	0.00	0.00	181,440.00	7,076.16	3.90%	0.00
Totals		1,259.75		5.10	68,850.00	5,195,520.00	156,771.87	3.01%	57,568.40

Attention Kim Ford

Page 1 of 2

Transmit Confirmation Report

No. : 003
Receiver : 97445743
Transmitter : WASTE MGT TAMPA SWDIST
Date : Sep 13 93 12:08
Time : 02'00
Mode : G3
Pages : 02
Result : OK

SOUTHWEST DISTRICT
CONVERSATION RECORD


Date 9/13/93 Subject SE LF Lechate
Time 1145A Permit No. _____
County Hillsboro
M SARAH Hill Telephone No. 744-5680
Representing HC Solid waste
☒ Phone Me ☐ Was Called ☐ Scheduled Meeting ☐ Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

we want: confirm acres of open, closed, intermediate

1158a we want info as on FAX 744-5743
DeSoto's example

I will fax a copy of DeSoto's form to her

(continue on another
sheet, if necessary)

Signature 

Title ET



Florida Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

Daryl Smith
Hillsborough County Solid Waste Department
P.O. Box 1110
Tampa, FL 33601

September 8, 1993

RE: Southeast Landfill, Hillsborough County, Permit No. SO29-158504
Leachate Management

Dear Mr. Smith:

Attached you will find a summary of the information received on leachate management (FDEP request of March 1993) in the Southwest District for a ninety day period in 1993. Evaluation of this information has raised the following concerns:

1. The number of active or open landfill acres appear high and the number of acres ready for final closure, but not closed, appear low. Please verify the number of open, intermediate, and closed acres.
2. The gallons of leachate collected per day appears low.

Hillsborough County is requested to provide complete daily leachate balance data in a summary format for each month for the Southeast Landfill. Additionally, in an effort to develop a database of leachate management and testing practices in the District, the Department requests the attached Leachate Management Summary Form be completed.

The Department requests that all information be provided to the Solid Waste Section, FDEP, Tampa office within fifteen (15) days of this notice. If you have any questions, you may contact me at (813) 744-6100 ext. 386, or Kim Ford at ext. 382.

Sincerely,

Susan J. Pelz
Solid Waste Section
Division of Waste Management

Attachments

cc: Paul Schipfer, HCEPC
Patricia Berry, Hillsborough County
Bob Butera, FDEP Tampa
Kim Ford, FDEP Tampa
Steve Morgan, FDEP
Kathy Anderson, FDEP Tallahassee

LEACHATE MANAGEMENT IN S.W. DISTRICT

for 90 days in 1993 (rainfall amount varies, 6-13 inches)

Facility	Open Acres	Interm. Acres	Closed Acres	Leachate gal/acre/day	Collected	Impounded	Recirculated	T.P.	Evap.	Irrigation
Levy	4	3		773	487,530	*			*	367,900
Citrus	3	11	7	1506	1,898,000	*		1,898,000		
Sumter, compost				insufficient data (impoundment and recirculation)						
Hern. N.W.	4			787	283,500			283,500		
Hern. Croom			5	199	89,750			89,750		
E. Pasco	14		42	157	792,000			792,000		
W. Pasco	7			371	234,000			234,000		
Polk NC	20	26		69	287,800	*	262,800	25,000	5,256	
Polk SE	8	10		843	1,366,000	*	1,206,000	160,000	24,120	
Polk NE	4	10		404	509,800	*	349,800	160,000	6,996	
Hills. SE	80	84	18	165	2,708,789		604,000	2,104,789	12,080	
DJJ	9	7			*	2,050,000	1,697,100		33,942	
Bridgeway Acres				insufficient data (evaporation in cooling towers)						
Toytown			215	201	3,900,000	*		3,900,000		
126th Ave.	12			insufficient data (impoundment in landfill)						
Manatee	5	212		274	5,352,000	7,780,000		32,049,000		
Hardee	10	3		insufficient data (irrigation sprayfield)						
Desoto	3	5		1336	961,606	584,000	717,563	647,288	345,654	
Sarasota	71	49	100	545	32,621,400	87,000,000	8,780,000		175,600	

Collected : pump hours x pump capacity

Impounded : average amount impounded

Recirculated : all amounts distributed inside lined cells

T.P. : amount hauled or piped to treatment plant

Evap. : evaporation @ 2% of amount recirculated

unless other specific information is provided

Irrigation : spray irrigation outside lined cells

* : applicable information not provided

LEACHATE MANAGEMENT SUMMARY

Landfill Name _____

Location _____

Phone Number _____

Place an "X" in the applicable spaces.

ON-SITE LEACHATE MANAGEMENT METHODS:

Impoundment Only _____

Impoundment with Aeration _____

Impoundment with Evaporation _____

Irrigation of intermediate areas _____

Recirculation _____

Pre-treatment or Other (Describe)

OFF-SITE LEACHATE DISPOSAL METHODS:

Wastewater Treatment Plant

County owned, Identify _____

Non-County owned, Identify _____

Other (Describe)

TESTING CRITERIA:

Please attach copies of your most recent leachate analysis.

Prepared By: _____ Date: _____

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl

BOARD OF COUNTY COMMISSIONERS

Phyllis Busansky
Joe Chillura
Sylvia Kimbell
Lydia Miller
Jim Norman
Jan Platt
Ed Turanchik



July 13, 1993

Senior County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

Mr. Kim Ford
Florida Department of Environmental Protection
3804 Coconut Palm
Tampa, Florida 33619

Department of Environmental Regulation
SOUTH WEST DISTRICT

RE: Southeast Landfill
Permit No. S029-158504
Quantity Report

BY _____

Dear Mr. Ford:

The Department of Solid Waste (DSW) is submitting the quarterly report for quantities of leachate disposed of at the Southeast County Landfill. A summary sheet for each day is provided with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of either at a wastewater treatment facility or recirculated by the landfill Contractor.

Should you have any questions concerning this information, please contact Sarah Hill at 744-5680.

Sincerely,

Patricia V. Berry
Patricia V. Berry

Landfill Services Section Manger

PVB/sh

Attachments

xc: Robert Butera, FDEP Tampa
Steve Morgan, FDEP Tampa
Kathy Anderson, FDEP Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT
APRIL 1	19,903	19,248	0	39,151
APRIL 2	12,854	19,297	17,000	49,151
APRIL 3	0	0	8,500	8,500
APRIL 4	0	0		0
APRIL 5	12,913	19,298		32,211
APRIL 6	25,807	19,177		44,984
APRIL 7	25,691	19,187	25,000	69,878
APRIL 8	0	19,266	25,500	44,766
APRIL 9	25,695	19,160	8,500	53,355
APRIL 10	0	0	25,500	25,500
APRIL 11	0	0	0	0
APRIL 12	25,654	25,581	17,000	68,235
APRIL 13	25,958	25,718	46,750	98,426
APRIL 14	25,641	25,441	17,500	68,582
APRIL 15	25,670	25,549	25,500	76,719
APRIL 16	25,873	12,715	0	38,588
APRIL 17	19,321	0	17,000	36,321
APRIL 18	0	0	0	0
APRIL 19	26,513	25,722	13,000	65,235
APRIL 20	26,282	25,700	25,500	77,482
APRIL 21	25,885	25,811	17,000	68,696
APRIL 22	26,363	25,548	17,000	68,911
APRIL 23	0	25,681	17,000	42,681
APRIL 24	0	0	17,000	17,000
APRIL 25	0	0	0	0
APRIL 26	13,019	25,472	8,500	46,991
APRIL 27	25,636	25,638	34,000	85,274
APRIL 28	26,622	26,015	25,500	78,137
APRIL 29	12,969	26,206	17,000	56,175
APRIL 30	25,427	26,527	25,500	77,454
=====				
	479,696	507,957	450,750	1,438,403

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT
MAY 1	0	0	25,500	25,500
MAY 2	0	0	0	0
MAY 3	19,227	26,596	17,000	62,823
MAY 4	24,650	26,518	0	51,168
MAY 5	24,983	26,604	17,000	68,587
MAY 6	19,530	19,813	0	39,343
MAY 7	0	0	51,000	51,000
MAY 8	0	25,892	34,000	59,892
MAY 9	0	0	0	0
MAY 10	0	25,315	34,000	59,315
MAY 11	26,639	25,365	34,000	86,004
MAY 12	26,147	25,132	34,000	85,279
MAY 13	26,075	25,371	17,000	68,446
MAY 14	25,904	25,115	0	51,019
MAY 15	0	0	68,000	68,000
MAY 16	0	0	0	0
MAY 17	25,898	0	25,500	51,398
MAY 18	26,128	25,984	34,000	86,112
MAY 19	19,645	25,681	34,000	79,326
MAY 20	26,419	25,780	34,000	86,199
MAY 21	0	25,779	34,000	59,779
MAY 22	0	25,944	59,500	85,444
MAY 23	0	0	0	0
MAY 24	25,919	0	51,000	76,919
MAY 25	0	25,877	22,500	48,377
MAY 26	19,511	19,146	18,000	56,657
MAY 27	25,943	25,630	24,000	75,573
MAY 28	0	25,633	16,000	41,633
MAY 29	0	25,630	0	25,630
MAY 30	0	0	0	0
=====	=====	=====	=====	=====
	362,618	502,805	684,000	1,549,423

DATE 1993	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT
JUNE 1	0	25,730	8,500	34,230
JUNE 2	12,848	25,743	51,000	89,591
JUNE 3	26,365	26,105	25,500	77,970
JUNE 4	0	26,085	17,000	43,085
JUNE 5	0	26,065	8,500	34,565
JUNE 6	0	0	0	0
JUNE 7	6,851	0	59,500	66,351
JUNE 8	0	26,087	51,000	77,087
JUNE 9	0	19,294	51,000	70,294
JUNE 10	0	26,108	59,500	85,608
JUNE 11	0	25,964	59,500	85,464
JUNE 12	0	26,057	34,000	60,057
JUNE 13	0	0	0	0
JUNE 14	25,847	0	0	25,847
JUNE 15	25,945	26,022	17,000	68,967
JUNE 16	26,037	26,096	34,000	86,133
JUNE 17	19,714	25,647	42,500	87,861
JUNE 18	0	25,616	42,500	68,116
JUNE 19	0	25,633	34,000	59,633
JUNE 20	0	0	0	0
JUNE 21	19,667	0	17,000	36,667
JUNE 22	0	25,716	8,500	34,216
JUNE 23	19,129	24,480	34,000	77,609
JUNE 24	0	24,503	17,000	41,503
JUNE 25	0	24,415	0	24,415
JUNE 26	0	24,447	25,500	49,947
JUNE 27	0	0	0	0
JUNE 28	6,607	0	25,500	32,107
JUNE 29	0	25,013	0	25,013
JUNE 30	0	24,192	0	24,192
JUNE 31	0	0	0	0
=====	=====	=====	=====	=====
189,010	555,018	722,500	1,466,528	

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Frederick B. Karl

BOARD OF COUNTY COMMISSIONERS

Phyllis Busansky
Joe Chillura
Sylvia Kimbell
Lydia Miller
Jim Norman
Jan Platt
Ed Turanchik



April 19, 1993

Senior Assistant County Administrator
Patricia Bean

Assistant County Administrators
Edwin Hunzeker
Cretta Johnson (Interim Appointment)
Jimmie Keel
Robert Taylor (Interim Appointment)

Mr. Kim Ford
Florida Department of Environmental Regulation
3804 Coconut Palm
Tampa, Florida 33619

RE: Southeast Landfill
Permit No. SO29-158504
Quantity Report

Dear Mr. Ford:

In response to your letter dated March 30, 1993 regarding the quantities of leachate disposed of at the Southeast County Landfill, the Department of Solid Waste is submitting the attached information. A summary sheet for each day is provided with the quantities of leachate that were disposed of by the County and the Contractor. The leachate was disposed of either at a wastewater treatment facility or recirculated by the landfill Contractor.

Should you have any questions concerning this information, please contact Sarah Hill at 744-5680.

Sincerely,

A handwritten signature in cursive script, appearing to read "Patricia V. Berry".

Patricia V. Berry
Landfill Services Section Manager

PVB/sh

Attachments

xc: Robert Butera, FDER Tampa
Steve Morgan, FDER Tampa
Kathy Anderson, FDER Tallahassee
Paul Schipfer, HCEPC
Steve Hamilton, SCS Engineers

D.E.R.

APR 22 1993

SOUTHWEST DISTRICT
TAMPA

Southeast Landfill
P.O. Box 997
Lithia, Florida 33547
(813) 634-9203 • FAX: 813/634-6518



A Waste Management Company

Leachate recirculation (gallons)

DATE	GALLONS
1-2	17,000
1-4	0
1-6	0
1-7	8,500
1-8	0
1-9	0
1-11	0
1-12	0
1-13	8,500
1-14	0
1-15	0
1-16	0
1-18	0
1-19	0
1-20	8,500
1-21	17,000
1-22	17,000
1-23	8,500
1-25	0
1-26	0
1-27	0
1-28	0
1-29	0
1-30	0
TOTAL	85,000
2-1	0
2-2	12,500
2-3	0
2-4	0
2-5	17,000
2-6	17,000
2-8	14,500
2-9	17,000
2-10	17,000
2-11	0
2-12	0
2-13	0
2-15	0
2-16	17,000
2-17	17,000
2-18	17,000
2-19	25,500
2-20	25,500
2-22	8,500
2-23	0
2-24	0
2-25	20,000



A Waste Management Company

2-26	0
2-27	0
TOTAL	225,500
3-1	0
3-2	18,000
3-3	12,000
3-4	0
3-5	0
3-6	8,500
3-8	17,000
3-9	25,500
3-10	25,500
3-11	17,000
3-12	17,000
3-13	0
3-15	17,000
3-16	17,000
3-17	0
3-18	0
3-19	8,500
3-20	0
3-22	8,500
3-23	0
3-24	8,500
3-25	25,500
3-26	0
3-27	0
3-29	25,500
3-30	25,500
3-31	17,000
TOTAL	293,500
TOTAL FOR 3 MONTHS	604,000

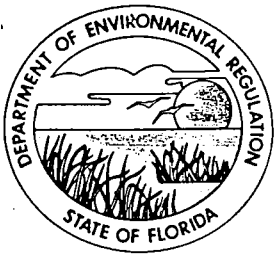
LEACHATE DISPOSAL AT
SOUTHEAST LANDFILL

1993 DATE	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT	
JAN. 2	0	0	17,000	17,000	
JAN 4	12,793	19,323	0	32,116	
JAN 5	19,138	19,530	0	38,668	
JAN 6	19,189	18,902	0	38,091	
JAN 7	19,055	0	8,500	27,555	
JAN 8	19,184	19,141	0	38,325	
JAN 11	19,234	19,378	0	38,612	
JAN 12	19,155	19,395	0	38,550	
JAN 13	13,449	18,990	8,500	40,939	
JAN 14	19,431	19,390	0	38,821	
JAN 15	12,842	20,055	0	32,897	
JAN 18	0	10,992	0	10,992	
JAN 19	13,242	19,337	0	32,579	
JAN 20	19,619	19,080	8,500	47,199	
JAN 21	6,357	19,263	17,000	42,620	
JAN 22	19,218	19,391	17,000	55,609	
JAN 23	0	0	8,500	8,500	
JAN 25	19,980	19,099	0	39,079	
JAN 26	13,105	19,159	0	32,264	
JAN 27	19,724	12,288	0	32,012	
JAN 28	19,448	12,545	0	31,993	
JAN 29	19,350	18,998	0	38,348	
	=====	=====	=====	=====	
TOTAL	323,513	344,256	85,000	752,769	MTHLY TOTAL

25/000

1993 DATE	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT	
FEB 1	19,267	18,905	0	38,172	
FEB 2	19,279	19,215	12,500	50,994	
FEB 3	13,597	19,128	0	32,725	
FEB 4	19,846	19,012	0	38,858	
FEB 5	6,563	18,648	17,000	42,211	
FEB 6	0	0	17,000	17,000	
FEB 8	19,370	19,139	14,500	53,009	
FEB 9	0	19,114	17,000	36,114	
FEB 10	0	19,083	17,000	36,083	
FEB 11	0	19,014	0	19,014	
FEB 12	0	18,995	0	18,995	
FEB 15	0	18,905	0	18,905	
FEB 16	0	19,070	17,000	36,070	
FEB 17	19,664	19,067	17,000	55,731	
FEB 18	19,247	19,106	17,000	55,353	
FEB 19	19,272	19,037	25,500	63,809	
FEB 20	0	0	25,500	25,500	
FEB 22	0	18,938	8,500	27,438	
FEB 23	19,332	18,878	0	38,210	
FEB 24	19,495	19,051	0	38,546	
FEB 25	19,256	0	20,000	39,256	
FEB 26	25,579	19,242	0	44,821	
FEB 27	25,631	19,083	0	44,714	
	=====	=====	=====	=====	
TOTAL	265,398	380,630	225,500	871,528	MTHLY TOTAL

DATE	COUNTY HAULED	CONTRACTOR HAULED	RECIRCULATED	DAILY AMT	
MAR 1	25,669	0	0	25,669	
MAR 2	12,858	19,212	18,000	50,070	
MAR 3	19,119	0	12,000	31,119	
MAR 4	25,548	19,068	0	44,616	
MAR 5	19,127	19,032	0	38,159	
MAR 6	0	0	8,500	8,500	
MAR 8	19,062	0	17,000	36,062	
MAR 9	19,064	19,137	25,500	63,701	
MAR 10	18,798	18,847	25,500	63,145	
MAR 11	18,909	18,440	17,000	54,349	
MAR 12	6,602	18,261	17,000	41,863	
MAR 15	12,860	19,117	17,000	48,977	
MAR 16	19,598	19,059	17,000	55,657	
MAR 17	19,113	19,041	0	38,154	
MAR 18	12,922	19,217	0	32,139	
MAR 19	19,365	19,080	8,500	46,945	
MAR 22	19,217	19,085	8,500	46,802	
MAR 23	19,195	19,085	0	38,280	
MAR 24	19,080	19,153	8,500	46,733	
MAR 25	19,196	12,669	25,500	57,365	
MAR 26	19,035	19,213	0	38,248	
MAR 29	19,802	19,157	25,500	64,459	
MAR 30	13,639	19,136	25,500	58,275	
MAR 31	19,166	19,039	17,000	55,205	
=====				=====	MTHLY
	416,944	374,048	293,500	1,084,492	TOTAL



Florida Department of Environmental Regulation

Southwest District

Lawton Chiles, Governor

3804 Coconut Palm

813-744-6100

Tampa, Florida 33619

Virginia B. Wetherell, Secretary

MAR 30 1993

Daryl Smith
Hillsborough County Solid Waste Department
P.O. Box 1110
Tampa, FL 33601

RE: Southeast Landfill
Permit No. SO29-158504
Quantity Report

Dear Mr. Smith:

The Department requests the following information and/or reports to be submitted prior to May 15, 1993. Please provide daily records from January 1, 1993 through April 1, 1993 for the following:

- * Quantities of leachate collected
- * Quantities of leachate stored or impounded
- * Quantities of leachate recirculated
- * Quantities of leachate hauled or piped to a wastewater treatment plant

This information will be evaluated by the Department. Design or operational changes may be needed to prevent unauthorized discharges or excessive head over lined disposal areas. If you have any questions, you may call me at (813) 744-6100 ext. 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

cc: Patricia Berry, Hillsborough County
Robert Butera, FDER Tampa
Steve Morgan, FDER Tampa
Kathy Anderson, FDER Tallahassee
Paul Schipfer, Hillsborough County EPC