

# HILLSBOROUGH COUNTY

Florida

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Frederick B. Karl

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OCT 11 1994



Department of Environmental Protection

SOUTHWEST DISTRICT

BY

September 30, 1994

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Ms. Allison Amram  
Department of Environmental Protection  
Waste Management Section  
3804 Coconut Palm Drive  
Tampa, Fl. 33619 8318

RE: Permit #S029-158504 - Southeast County Sanitary Landfill

Dear Ms. Amram:

Enclosed are the results of the routine water quality monitoring of the Southeast Landfill, for the period of May 1, 1994 through July 31, 1994 in accordance with Permit No. S029-158504. In addition to the routine quarterly parameters, the Florida Primary and Secondary Drinking Water Standards are included as required for the permit renewal. Samples were collected by the Department of Solid Waste in May, 1994 and analyzed by Post, Buckley, Schuh and Jernigan, Inc.

A map showing site locations and a summary chart are also enclosed.

If you have any questions or comments on this information, please call me at 276-2920.

Sincerely,

*James G. Clayton*

James G. Clayton,  
Environmental Supervisor  
Department of Solid Waste

Enclosures

xc: Chongman Lee, Department of Environmental Protection  
Paul Schipfer, EPC  
Ron Antevy, Waste Management, Inc.  
Matt Mathews, Department of Solid Waste  
Irene Barnes, Southeast Hillsborough Civic Association  
Thomas G. Smith, Department of Solid Waste, w/o enclosures  
Greg Walk, General Manager Southeast Landfill  
Jim Lukens, Waste Management Southeast Landfill  
Sarah Hill, Department of Solid Waste

GROUNDWATER MONITORING REPORT

Hillsborough County Solid Waste Dept.  
 Att.: James Clayton  
 Post Office Box 1110  
 Tampa, FL 33601

Sample date: 05/11/94

PARAMETER MONITORING REPORT  
 (Rule 17-3.402, 17-3.404-17-3.406)

Well Type:

**SURF SITE 1A-1E**

GMS:  
 Well Purged Prior to  
 Sample Collection ( Yes/No ):

Groundwater Elevation  
 (above MSL) (ft.)  
 Water Level (ft.)

Storet Code	Parameter Monitored	Sampling Analysis		Analysis		F-U	Preservative
		Method	Method	Results	Units		
310	biochemical oxygen demand	Grab	EPA405.1	6	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	76	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	17.7	mg/l	U	NONE
95	conductivity	Grab	EPA120.1	201	umhos/cm	U	NONE
94	conductivity in field	Grab	APHA205	208	coc units		
300	dissolved oxygen, field	Grab	EPA360.1	5.64 <sup>u</sup>	mg/liter		
560	grease & oil	Grab	EPA413.2	<5	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	60	ug/l	U	HNO3 to pH<2
403	ph	Grab	EPA150.1	7.46	pH UNITS	U	NONE
406	ph in field	Grab	EPA150.1	7.41	pH UNITS		
945	sulfate	Grab	EPA375.4	2.5	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	27.7	oC		
410	total alkalinity	Grab	EPA310.1	61.6	mg/l CaCO3	U	NONE
70300	total dissolved solids	Grab	EPA160.1	136	mg/l	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	1.68	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	1.7	mg/l as N		
680	total organic carbon	Grab	EPA415.1	22.4	mg/l as C	U	H2SO4 to pH<2
665	total phosphorus	Grab	EPA365.4	4.44	mg/l as P	U	H2SO4 to pH<2
82079	turbidity	Grab	EPA180.1	8.61	ntu	U	NONE

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PARAMETER MONITORING REPORT  
 (Rule 17-3.402, 17-3.404-17-3.406)

Well Type:

SURF SITE 2

GMS:

Well Purged Prior to  
 Sample Collection ( Yes/No ):

Groundwater Elevation  
 (above MSL) (ft.)  
 Water Level (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
310	biochemical oxygen demand	Grab	EPA405.1	20	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	160	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	18.5	mg/l	U	NONE
95	conductivity	Grab	EPA120.1	130	umhos/cm	U	NONE
94	conductivity in field	Grab	APHA205	122	coc units		
300	dissolved oxygen, field	Grab	EPA360.1	1.1	mg/liter		
560	grease & oil	Grab	EPA413.2	<5	mg/l	U	H2SO4 to pH<2
1045	<u>iron-icp method</u>	Grab	EPA200.7	<u>1720</u>	<u>ug/l</u>	U	HNO3 to pH<2
403	ph	Grab	EPA150.1	<u>5.06</u>	<u>pH UNITS</u>	U	NONE
406	<u>ph in field</u>	Grab	EPA150.1	<u>5.16</u>	<u>pH UNITS</u>		
945	sulfate	Grab	EPA375.4	<1	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	24.4	oC		
410	total alkalinity	Grab	EPA310.1	<1	mg/l CaCO3	U	NONE
70300	total dissolved solids	Grab	EPA160.1	140	mg/l	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	30.5	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	30.6	mg/l as N		
680	total organic carbon	Grab	EPA415.1	59	mg/l as C	U	H2SO4 to pH<2
665	total phosphorus	Grab	EPA365.4	4.32	mg/l as P	U	H2SO4 to pH<2
82079	turbidity	Grab	EPA180.1	16.7	ntu	U	NONE

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PARAMETER MONITORING REPORT  
 (Rule 17-3.402, 17-3.404-17-3.406)

Well Type:

~~SURF SITE 3A~~

GMS:  
 Well Purged Prior to  
 Sample Collection ( Yes/No ):

Groundwater Elevation  
 (above MSL) (ft.)  
 Water Level (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
310	biochemical oxygen demand	Grab	EPA405.1	5	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	13	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	42.9	mg/l	U	NONE
95	conductivity	Grab	EPA120.1	314	umhos/cm	U	NONE
94	conductivity in field	Grab	APHA205	325	coc units		
300	dissolved oxygen, field	Grab	EPA360.1	5.22	mg/liter		
560	grease & oil	Grab	EPA413.2	<5	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	190	ug/l	U	HNO3 to pH<2
403	ph	Grab	EPA150.1	6.2	PH-UNITS	U	NONE
406	ph in field	Grab	EPA150.1	5.92	PH-UNITS		
945	sulfate	Grab	EPA375.4	53	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	25.3	oC		
410	total alkalinity	Grab	EPA310.1	7.9	mg/l CaCO3	U	NONE
70300	total dissolved solids	Grab	EPA160.1	186	mg/l	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	0.43	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	1.02	mg/l as N		
680	total organic carbon	Grab	EPA415.1	5.76	mg/l as C	U	H2SO4 to pH<2
665	total phosphorus	Grab	EPA365.4	0.08	mg/l as P	U	H2SO4 to pH<2
82079	turbidity	Grab	EPA180.1	0.74	ntu	U	NONE

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PARAMETER MONITORING REPORT  
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Well Type:

SURF SITE 3A DUP

GMS:

Well Purged Prior to  
 Sample Collection ( Yes/No ):

Groundwater Elevation  
 (above MSL) (ft.)  
 Water Level (ft.)

Storet Code	Parameter Monitored	Sampling Analysis		Analysis		F-U	Preservative
		Method	Method	Results	Units		
310	biochemical oxygen demand	Grab	EPA405.1	1	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	12	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	44.2	mg/l	U	NONE
95	conductivity	Grab	EPA120.1	315	umhos/cm	U	NONE
94	conductivity in field	Grab	APHA205	325	coc units		
300	dissolved oxygen, field	Grab	EPA360.1	5.22	mg/liter		
560	grease & oil	Grab	EPA413.2	<5	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	150	ug/l	U	HNO3 to pH<2
403	ph	Grab	EPA150.1	6.23	pH-UNITS	U	NONE
406	ph in field	Grab	EPA150.1	5.92	pH-UNITS		
945	sulfate	Grab	EPA375.4	56	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	25.3	oC		
410	total alkalinity	Grab	EPA310.1	8.1	mg/l CaCO3	U	NONE
70300	total dissolved solids	Grab	EPA160.1	192	mg/l	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	0.27	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	0.89	mg/l as N		
680	total organic carbon	Grab	EPA415.1	5.12	mg/l as C	U	H2SO4 to pH<2
665	total phosphorus	Grab	EPA365.4	0.07	mg/l as P	U	H2SO4 to pH<2
82079	turbidity	Grab	EPA180.1	0.78	ntu	U	NONE

GROUNDWATER MONITORING REPORT

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Sample date: 05/11/94

~~SURF SITE 3B2B~~

PARAMETER MONITORING REPORT  
 (Rule 17-3.402, 17-3.404-17-3.406)

Well Type:

GMS:

Well Purged Prior to  
 Sample Collection ( Yes/No ):

Groundwater Elevation  
 (above MSL) (ft.)  
 Water Level (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
310	biochemical oxygen demand	Grab	EPA405.1	1	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	21	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	31.2	mg/l	U	NONE
95	conductivity	Grab	EPA120.1	244	umhos/cm	U	NONE
94	conductivity in field	Grab	APHA205	256	coc units		
300	dissolved oxygen, field	Grab	EPA360.1	4.61	mg/liter		
560	grease & oil	Grab	EPA413.2	<5	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	420	ug/l	U	HNO3 to pH<2
403	ph	Grab	EPA150.1	6.62	pH-UNITS	U	NONE
406	ph in field	Grab	EPA150.1	6.49	pH-UNITS		
945	sulfate	Grab	EPA375.4	31	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	22.5	oC		
410	total alkalinity	Grab	EPA310.1	21.5	mg/l CaCO3	U	NONE
70300	total dissolved solids	Grab	EPA160.1	148	mg/l	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	0.24	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	0.4	mg/l as N		
680	total organic carbon	Grab	EPA415.1	8.04	mg/l as C	U	H2SO4 to pH<2
665	total phosphorus	Grab	EPA365.4	0.62	mg/l as P	U	H2SO4 to pH<2
82079	turbidity	Grab	EPA180.1	0.67	ntu	U	NONE

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PARAMETER MONITORING REPORT  
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Well Type:

~~SURF SITE 3C2~~

GMS:

Well Purged Prior to  
 Sample Collection ( Yes/No ):

Groundwater Elevation  
 (above MSL) (ft.)  
 Water Level (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
310	biochemical oxygen demand	Grab	EPA405.1	<1	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	20	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	28.1	mg/l	U	NONE
95	conductivity	Grab	EPA120.1	240	umhos/cm	U	NONE
94	conductivity in field	Grab	APHA205	241	coc units		
300	dissolved oxygen, field	Grab	EPA360.1	6.12	mg/liter		
560	grease & oil	Grab	EPA413.2	<5	mg/l	U	H2SO4 to pH<2
1045	iron icp method	Grab	EPA200.7	190	ug/l	U	HNO3 to pH<2
403	ph	Grab	EPA150.1	6.41	pH UNITS	U	NONE
406	ph in field	Grab	EPA150.1	6.54	pH UNITS		
945	sulfate	Grab	EPA375.4	36	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	23.2	oC		
410	total alkalinity	Grab	EPA310.1	23.8	mg/l CaCO3	U	NONE
70300	total dissolved solids	Grab	EPA160.1	162	mg/l	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	<0.1	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	<0.1	mg/l as N		
680	total organic carbon	Grab	EPA415.1	9.56	mg/l as C	U	H2SO4 to pH<2
665	total phosphorus	Grab	EPA365.4	0.64	mg/l as P	U	H2SO4 to pH<2
82079	turbidity	Grab	EPA180.1	1.01	ntu	U	NONE