100494

Leachate

BOARD OF COUNTY COMMISSIONERS
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Hillsborough County
Florida

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May 23, 2002

Mr. John Morris, P.G.
Department of Environmental Protection
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Re: Southeast County Landfill
Semi-Annual Analytical Data Report, February 2002
Permit #S029-256427

Dear Mr. Morris:

In accordance with Landfill Operation Permit No. SO29-256427, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data report (ADR) for the semi-annual water quality monitoring at the Southeast County Landfill. Samples were collected by the SWMD during February 11-13, 2002, and were analyzed by our contract laboratory, Elab, Inc.

Enclosed for your review, please find the copies of the letters sent to the owners of the private wells, a sampling site location map, the analytical data summary tables, a groundwater elevation data summary table, a surficial aquifer groundwater elevation contour diagram, and the complete laboratory analytical data report sheets.

S1 S3 S6

FEB. 2002 SAMPLING EVENT

Should you have any questions or require any additional information, please feel free to contact me directly at (813) 276-2944.

Sincerely,

David S. Adams 5/23/02

David S. Adams, P.G.
Environmental Manager
Solid Waste Management

DAVID S. ADAMS LICENSE № 1827 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

DSA/kb
Enclosures

xc: Daryl Smith, Director, SWMD
Patricia Berry, Section Manager, SWMD
Matt Mathews, Landfill Manager, SWMD
C. Lee Smith, District Landfill Manager, WM, Southeast Landfill
Carolyn McCreedy, Engineer, WM, Southeast Landfill
Larry Ruiz, Project Manager, SCS Engineers
Chongman Lee , Department of Environmental Protection
Paul Schipfer, Environmental Protection Commission
Irene Barnes, Southeast Hillsborough Civic Association

Proj. # 100494

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RECEIVED
MAY 28 2002
Department of Environmental Protection
SOUTHWEST DISTRICT
BY

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name SOUTHEAST LANDFILL

Address 15960 C. R. 672

City PICNIC, FL Zip 33503

Telephone Number (813) 671-7707

(2) The GMS Identification Number 4029C30075

(3) DEP Permit Number SO29-256427

(4) Authorized Representative Name DARYL H. SMITH, DIRECTOR, SOLID WASTE MANAGEMENT DEPT

Address P O BOX 1110

City TAMPA, FLORIDA Zip 33601

Telephone Number (813) 276-2900

(5) Type of Discharge GROUNDWATER – POTENTIAL ONLY

(6) Method of Discharge LANDFILL

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date: 5/20/02

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # 860198

Analytical Lab Comp QAP # /HRS Certification # 83160

*Comp QAP # /HRS Certification #

Lab Name ELAB, INC

Address 3365 E COLONIAL DRIVE, ORLANDO, FL 32807 - 8 E. TOWER CIRCLE , ORMOND BEACH, FL 32174

Phone Number (386) 672-5668

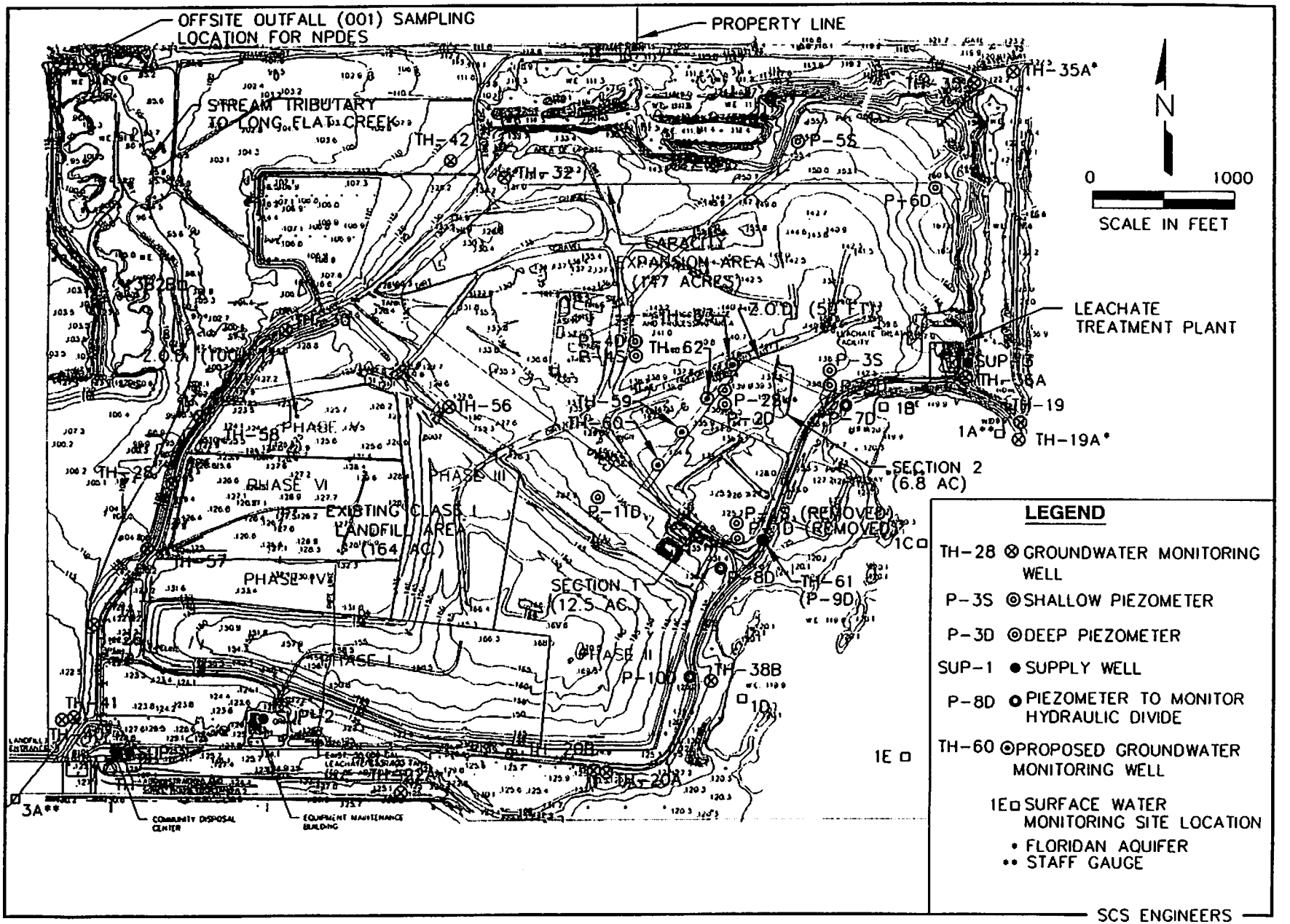


Figure 2-1. Location of Monitoring Wells, Piezometers, and Surface Water Sampling Points.

Summary of Analytical Constituents Detected in Leachate Sump A

February 11, 2002

GENERAL (mg/l)	
PARAMETERS	LEACHATE SUMP A
conductivity (umhos/cm) (field)	11500
pH (field)	6.95
total dissolved solids (mg/l)	5900
temperature (°C) (field)	28.7
chloride (mg/l)	2500
ammonia nitrogen (mg/l as N)	250
nitrate (mg/l as N)	BDL
dissolved oxygen (mg/l) (field)	0.4
sulfide (mg/l)	9.4
Metals: (mg/l)	LEACHATE SUMP A
iron	16
chromium	0.007
copper	BDL
barium	0.02
arsenic	0.012
lead	BDL
mercury	BDL
vanadium	0.02
nickel	0.053
sodium	1700
zinc	BDL
Organics: (µg/l)	
E.P.A. Methods 8260	
Organic Parameters Detected	LEACHATE SUMP A
1,4-dichlorobenzene	BDL
acetone	27
acrolein	BDL
benzene	1.6
chloroethane	BDL
cis-1,2-Dichloroethene	BDL
chlorobenzene	3.0
ethylbenzene	1.5
xylenes	16
vinyl chloride	BDL
naphthalene	9.9
toluene	BDL
toluidine	6.6
BDL=BELOW DETECTION LIMIT	
NTU=NEPHELOMETRIC TURBIDITY UNITS	
µg/l=MICROGRAMS PER LITER	
mg/l=MILLIGRAMS PER LITER	

Florida
Certification:
#E83079

ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
00010	TEMPERATURE (Field)	GRAB	170.1	28.7		N/A	DEG C	UNFILTERED	02/11/02
00406	pH (Field)	GRAB	150.1	6.95		N/A	UNIT	UNFILTERED	02/11/02
00094	SPECIFIC CONDUCTANCE (Field)	GRAB	120.1	11500		1	umhc/cm	UNFILTERED	02/11/02
00299	DISSOLVED OXYGEN (Field)	GRAB	360.1	0.40		0.10	mg/L	UNFILTERED	02/11/02
00403	pH	GRAB	150.1	7.07			UNIT	UNFILTERED	02/12/02
00094	SPECIFIC CONDUCTANCE	GRAB	120.1	10700		1.0	umhos/cm	UNFILTERED	02/12/02
00940	CHLORIDE	GRAB	300.0	2500		12	mg/L	UNFILTERED	02/12/02
00720	CYANIDE - TOTAL	GRAB	335.3	0.010	U	0.010	mg/L	UNFILTERED	02/20/02
00610	AMMONIA NITROGEN (as N)	GRAB	350.1	250		1.2	mg/L	UNFILTERED	02/13/02
00620	NITRATE NITROGEN (as N)	GRAB	300.0	1.2	U	1.2	mg/L	UNFILTERED	02/12/02
00745	SULFIDE	GRAB	376.1	9.4		0.25	mg/L	UNFILTERED	02/12/02
00515	TOTAL DISSOLVED SOLIDS (TDS)	GRAB	160.1	5900		5.0	mg/L	UNFILTERED	02/13/02
01007	BARIUM (TOTAL)	GRAB	6010	20		10	ug/L	UNFILTERED	02/14/02
01097	ANTIMONY (TOTAL)	GRAB	6010	5.0	U	5.0	ug/L	UNFILTERED	02/14/02
01002	ARSENIC (TOTAL)	GRAB	6010	12		5.0	ug/L	UNFILTERED	02/14/02
01012	BERYLLIUM (TOTAL)	GRAB	6010	1.0	U	1.0	ug/L	UNFILTERED	02/14/02
01027	CADMIUM (TOTAL)	GRAB	6010	1.0	U	1.0	ug/L	UNFILTERED	02/14/02
01034	CHROMIUM (TOTAL)	GRAB	6010	7.4		5.0	ug/L	UNFILTERED	02/14/02
01037	COBALT (TOTAL)	GRAB	6010	10	U	10	ug/L	UNFILTERED	02/14/02
01042	COPPER (TOTAL)	GRAB	6010	10	U	10	ug/L	UNFILTERED	02/14/02
01045	IRON (TOTAL)	GRAB	6010	16000		40	ug/L	UNFILTERED	02/14/02
01051	LEAD (TOTAL)	GRAB	6010	5.0	U	5.0	ug/L	UNFILTERED	02/14/02
71900	MERCURY	GRAB	7470	0.20	U	0.20	ug/L	UNFILTERED	02/14/02
01067	NICKEL (TOTAL)	GRAB	6010	53		10	ug/L	UNFILTERED	02/14/02
01147	SELENIUM (TOTAL)	GRAB	6010	5.0	U	5.0	ug/L	UNFILTERED	02/14/02
00929	SODIUM (TOTAL)	GRAB	6010	1700		5.0	mg/L	UNFILTERED	02/18/02
01087	VANADIUM (TOTAL)	GRAB	6010	20		10	ug/L	UNFILTERED	02/14/02

Florida
Certification:
#E83079

ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
01077	SILVER (TOTAL)	GRAB	6010	10	U	10	ug/L	UNFILTERED	02/14/02
01102	TIN (Total)	GRAB	6010	250	U	250	ug/L	UNFILTERED	02/18/02
01059	THALLIUM (TOTAL)	GRAB	7841	1.0	U	1.0	ug/L	UNFILTERED	02/19/02
01092	ZINC (TOTAL)	GRAB	6010	20	U	20	ug/L	UNFILTERED	02/14/02
34516	1,1,2,2-TETRACHLOROETHANE	GRAB	8260	0.20	U	0.20	ug/L	UNFILTERED	02/17/02
77562	1,1,1,2-TETRACHLOROETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34511	1,1,2-TRICHLOROETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34506	1,1,1-TRICHLOROETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34496	1,1-DICHLOROETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34501	1,1-DICHLOROETHENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77168	1,1-DICHLOROPROPENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77443	1,2,3-TRICHLOROPROPANE	GRAB	8260	0.20	U	0.20	ug/L	UNFILTERED	02/17/02
34210	ACROLEIN	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
34531	1,2-DICHLOROETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34566	1,2-DICHLOROPROPANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77143	1,3-DICHLOROPROPANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77168	2,2-DICHLOROPROPANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34215	ACRYLONITRILE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34704	cis-1,3-DICHLOROPROPENE	GRAB	8260	0.20	U	0.20	ug/L	UNFILTERED	02/17/02
82552	ACETONE	GRAB	8260	27		10	ug/L	UNFILTERED	02/17/02
76997	ACETONITRILE	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
78109	ALLYL CHLORIDE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34030	BENZENE	GRAB	8260	1.6		1.0	ug/L	UNFILTERED	02/17/02
73085	BROMOCHLOROMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
32101	BROMODICHLOROMETHANE	GRAB	8260	0.60	U	0.60	ug/L	UNFILTERED	02/17/02
32104	BROMOFORM	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34413	BROMOMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34699	trans-1,3-DICHLOROPROPENE	GRAB	8260	0.20	U	0.20	ug/L	UNFILTERED	02/17/02
77041	CARBON DISULFIDE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02

Mailing - P.O. Box 468 • Ormond Beach, Florida 32175-0468 • Shipping - 8 East Tower Circle • Ormond Beach, Florida 32174
(386) 672-5668 • Fax (386) 673-4001

Puerto Rico: Office (787) 787-0866 • Cellular (787) 390-3505 or (787) 399-4683

Florida
Certification:
#E83079

ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
77268	trans-1,4-DICHLORO-2-BUTENE	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
32102	CARBON TETRACHLORIDE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77424	IODOMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34301	CHLOROBENZENE	GRAB	8260	3.0		1.0	ug/L	UNFILTERED	02/17/02
73570	ETHYL METHACRYLATE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
81593	METHACRYLONITRILE	GRAB	8260	5.0	U	5.0	ug/L	UNFILTERED	02/17/02
34311	CHLOROETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
32106	CHLOROFORM	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
32418	CHLOROMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77093	cis-1,2-DICHLOROETHENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
32105	DIBROMOCHLOROMETHANE	GRAB	8260	0.40	U	0.40	ug/L	UNFILTERED	02/17/02
77033	ISOBUTYL ALCOHOL	GRAB	8260	20	U	20	ug/L	UNFILTERED	02/17/02
77596	DIBROMOMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77103	METHYL BUTYL KETONE (MBK)	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
34668	DICHLORODIFLUOROMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
81596	METHYL ISOBUTYL KETONE (MIBK)	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
81597	METHYL METHACRYLATE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34371	ETHYLBENZENE	GRAB	8260	1.5		1.0	ug/L	UNFILTERED	02/17/02
77007	PROPIONITRILE	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
34423	METHYLENE CHLORIDE	GRAB	8260	5.0	U	5.0	ug/L	UNFILTERED	02/17/02
77128	STYRENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34475	TETRACHLOROETHENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34010	TOLUENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34546	trans-1,2-DICHLOROETHENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
39180	TRICHLOROETHENE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34488	TRICHLOROFLUOROMETHANE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
77057	VINYL ACETATE	GRAB	8260	2.0	U	2.0	ug/L	UNFILTERED	02/17/02

Florida
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ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
39175	VINYL CHLORIDE	GRAB	8260	1.0	U	1.0	ug/L	UNFILTERED	02/17/02
34020	XYLENES (Total)	GRAB	8260	16		1.0	ug/L	UNFILTERED	02/17/02
49146	1,2-DIBROMO-3-CHLOROPROPANE	GRAB	8011	0.020	U	0.020	ug/L	UNFILTERED	02/15/02
34391	HEXACHLOROBUTADIENE	GRAB	8260	0.50	U	0.50	ug/L	UNFILTERED	02/17/02
34696	NAPHTHALENE	GRAB	8270	9.9		5.0	ug/L	UNFILTERED	02/25/02
34536	1,2-DICHLOROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34566	1,3-DICHLOROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34571	1,4-DICHLOROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77651	ETHYLENE DIBROMIDE	GRAB	8011	0.020	U	0.020	ug/L	UNFILTERED	02/15/02
39338	b-BHC	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39350	CHLORDANE (tech.)	GRAB	8081	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
34259	d-BHC	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
34361	ENDOSULFAN I	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
34356	ENDOSULFAN II	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
34351	ENDOSULFAN SULFATE	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39390	ENDRIN	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
34366	ENDRIN ALDEHYDE	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39340	g-BHC (LINDANE)	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39410	HEPTACHLOR	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39420	HEPTACHLOR EPOXIDE	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39480	METHOXYCHLOR	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39400	TOXAPHENE	GRAB	8081	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
34671	PCB 1016	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
39488	PCB 1221	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
39492	PCB 1232	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
39496	PCB 1242	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
39500	PCB 1248	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
39504	PCB 1254	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02

Florida
Certification:
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PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

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ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
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Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
39508	PCB 1260	GRAB	8082	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
39310	4,4'-DDD	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39320	4,4'-DDE	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39300	4,4'-DDT	GRAB	8081	0.022	U	0.022	ug/L	UNFILTERED	02/20/02
39337	a-BHC	GRAB	8081	0.0054	U	0.0054	ug/L	UNFILTERED	02/20/02
39330	ALDRIN	GRAB	8081	0.0054	U	0.0054	ug/L	UNFILTERED	02/20/02
39460	CHLOROBENZILATE	GRAB	8081	0.11	U	0.11	ug/L	UNFILTERED	02/20/02
39380	DIELDRIN	GRAB	8081	0.0054	U	0.0054	ug/L	UNFILTERED	02/20/02
81281	KEPONE	GRAB	8081	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
34220	ANTHRACENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34247	BENZO(A)PYRENE	GRAB	8270	1.0	U	1.0	ug/L	UNFILTERED	02/25/02
34526	BENZ(A)ANTHRACENE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34230	BENZO(B)FLUORANTHENE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34521	BENZO(G,H,I)PERYLENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34242	BENZO(K)FLUORANTHENE	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34278	BIS(2-CHLOROETHOXY) METHANE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34273	BIS(2-CHLOROETHYL) ETHER	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34283	BIS(2-CHLOROISOPROPYL) ETHER	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
39100	BIS(2-ETHYLHEXYL) PHTHALATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34292	BUTYL BENZYL PHTHALATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34694	PHENOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34320	CHRYSENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
39110	DI-n-BUTYLPHTHALATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34596	DI-n-OCTYLPHTHALATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34556	DIBENZ(A,H)ANTHRACENE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34621	2,4,6-TRICHLOROPHENOL	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02

Florida
Certification:
#E83079

ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
34616	2,4-DINITROPHENOL	GRAB	8270	14	U	14	ug/L	UNFILTERED	02/25/02
34611	2,4-DINITROTOLUENE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34586	2-CHLOROPHENOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34657	4,6-DINITRO-2-METHYLPHENOL	GRAB	8270	20	U	20	ug/L	UNFILTERED	02/25/02
34336	DIETHYL PHTHALATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34408	ISOPHORONE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34341	DIMETHYL PHTHALATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34376	FLUORANTHENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34381	FLUORENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34396	HEXACHLOROETHANE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34403	INDENO(1,2,3-CD)PYRENE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34428	N-NITROSODI-n-PROPYLAMINE	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34438	N-NITROSODIMETHYLAMINE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34447	NITROBENZENE	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34461	PHENANTHRENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34469	PYRENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
81595	METHYL ETHYL KETONE (MEK)	GRAB	8260	10	U	10	ug/L	UNFILTERED	02/17/02
34551	1,2,4-TRICHLOROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34205	ACENAPHTHENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34200	ACENAPHTHYLENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
81553	ACETOPHENONE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77147	BENZYL ALCOHOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73540	DIALLATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73571	ETHYL METHANESULFONATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
39700	HEXACHLOROBENZENE	GRAB	8270	1.0	U	1.0	ug/L	UNFILTERED	02/25/02
34386	HEXACHLOROCYCLOPENTADIENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73576	HEXACHLOROPROPENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
39430	ISODRIN	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02

Florida
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ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
73582	ISOSAFROLE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73589	METHAPYRILENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73595	METHYL METHANESULFONATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73609	N-NITROSODI-n-BUTYLAMINE	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
73611	N-NITROSODIETHYLAMINE	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34433	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73613	N-NITROSOMETHYLETHYLAMINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73619	N-NITROSOPIPERIDINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
78206	N-NITROSOPYRROLIDINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73652	o,o,o-TRIETHYLPHOSPHOROTHIOATE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77142	o-TOLUIDINE	GRAB	8270	6.6		5.0	ug/L	UNFILTERED	02/25/02
73558	p-DIMETHYLAMINOAZOBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77793	PENTACHLOROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
81316	PENTACHLORONITROBENZENE	GRAB	8081	0.54	U	0.54	ug/L	UNFILTERED	02/20/02
73626	PHENACETIN	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
39080	PRONAMIDE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77545	SAFROLE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73553	THIONAZIN	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77152	2-METHYLPHENOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77687	2,4,5-TRICHLOROPHENOL	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34601	2,4-DICHLOROPHENOL	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34606	2,4-DIMETHYLPHENOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34626	2,6-DINITROTOLUENE	GRAB	8270	2.0	U	2.0	ug/L	UNFILTERED	02/25/02
34581	2-CHLORONAPHTHALENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77416	2-METHYLNAPHTHALENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34591	2-NITROPHENOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02

Florida
Certification:
#E83079

ELAB, Inc.

PARAMETER MONITORING REPORT
(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269
PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM
ELAB REPORT NAME: DERREP->GRNDREP
SAMPLE # 0202269 3

GMS:N
Monitoring Well: LEACHATE SUMP-A
Classification of Groundwater: GW II
Well Name: LEACHATE SUMP - A

Sample Date: 02/11/02
Well Type:

Well Development Prior to
Sample Collection (YES/NO): YES

Ground Water Elevation
(MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
34631	3,3'-DICHLOROBENZIDINE	GRAB	8270	10	U	10	ug/L	UNFILTERED	02/25/02
34636	4-BROMOPHENYL PHENYL ETHER	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73605	4-NITROANILINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
78142	2-NITROANILINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77146	3 & 4-METHYLPHENOL	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
34452	4-CHLORO-3-METHYLPHENOL	GRAB	8270	20	U	20	ug/L	UNFILTERED	02/25/02
34641	4-CHLOROPHENYL PHENYL ETHER	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
78300	3-NITROANILINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73529	4-CHLOROANILINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
34646	4-NITROPHENOL	GRAB	8270	20	U	20	ug/L	UNFILTERED	02/25/02
81302	DIBENZOFURAN	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77734	1,2,4,5-TETRACHLOROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73653	1,3,5-TRINITROBENZENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
45622	1,3-DINITROBENZENE	GRAB	8270	8.0	U	8.0	ug/L	UNFILTERED	02/25/02
73599	1,4-NAPHTHOQUINONE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73628	1,4-PHENYLENEDIAMINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73600	1-NAPHTHYLAMINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77770	2,3,4,6-TETRACHLOROPHENOL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77541	2,6-DICHLOROPHENOL	GRAB	8270	4.0	U	4.0	ug/L	UNFILTERED	02/25/02
82240	2-ACETYAMINOFLUORENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
81520	2-CHLORO-1,3-BUTADIENE	GRAB	8260	20	U	20	ug/L	UNFILTERED	02/17/02
73601	2-NAPHTHYLAMINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73560	3,3'-DIMETHYLBENZIDINE	GRAB	8270	10	U	10	ug/L	UNFILTERED	02/25/02
73591	3-METHYLCHOLANTHRENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
77581	4-AMINOBIPHENYL	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
73622	5-NITRO-o-TOLUIDINE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02

Florida Certification: #E83079

ELAB, Inc.

PARAMETER MONITORING REPORT

(Rule 62-520.400, 62-520.420, 62-520.460)

ELAB SUBMISSION # 202000269

PROJECT : SOUTHEAST LANDFILL WELL MONITORING PROGRAM

ELAB REPORT NAME: DERREP->GRNDREP

SAMPLE # 0202269 3

GMS:N

Sample Date: 02/11/02

Monitoring Well: LEACHATE SUMP-A

Well Type:

Classification of Groundwater: GW II

Well Name: LEACHATE SUMP - A

Well Development Prior to Sample Collection (YES/NO): YES

Ground Water Elevation (MSL):

STORET NUMBER	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULT	Q	REPORTING LIMIT	UNITS	FIELD FILTRATION	DATE ANALYZED
73559	7,12-DIMETHYLBENZ(A)ANTHRACENE	GRAB	8270	5.0	U	5.0	ug/L	UNFILTERED	02/25/02
39740	2,4,5-T	GRAB	8151	0.20	U	0.20	ug/L	UNFILTERED	02/21/02
39760	2,4,5-TP (SILVEX)	GRAB	8151	0.20	U	0.20	ug/L	UNFILTERED	02/21/02
39730	2,4-D	GRAB	8151	0.10	U	0.10	ug/L	UNFILTERED	02/21/02
39730	DINOSEB	GRAB	8151	0.20	U	0.20	ug/L	UNFILTERED	02/21/02
39032	PENTACHLOROPHENOL	GRAB	8151	0.040	U	0.040	ug/L	UNFILTERED	02/21/02
46214	DIMETHOATE	GRAB	8141	0.10	U	0.10	ug/L	UNFILTERED	02/18/02
81888	DISULFOTON	GRAB	8141	0.30	U	0.30	ug/L	UNFILTERED	02/18/02
38462	FAMPHUR	GRAB	8141	0.50	U	0.50	ug/L	UNFILTERED	02/18/02
46313	PHORATE	GRAB	8141	0.50	U	0.50	ug/L	UNFILTERED	02/18/02
39540	PARATHION-ETHYL	GRAB	8141	0.50	U	0.50	ug/L	UNFILTERED	02/18/02
38540	PARATHION-METHYL	GRAB	8141	0.50	U	0.50	ug/L	UNFILTERED	02/18/02

Data Qualifier Code Key:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE
COC SHEET SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

			DATE	TIME
RELINQUISHED BY:	[signature]	REP. OF CONTRACT LAB.	2-5-02	1400
ACCEPTED BY:	[signature]	REP. OF COMMON CARRIER	2-5-02	0545
RELINQUISHED BY:	[signature]	REP. OF COMMON CARRIER	2-5-02	2000
ACCEPTED BY:	[signature]	REP. OF SOLID WASTE DEPT.	2-5-02	2000

LOCATION: **LEACHATE SUMP - A** SAMPLE MATRIX: **LEACHATE**
PERSONAL ENGAGED IN SAMPLE COLLECTION: [signature] | [signature]

FIELD PARAMETERS:

BY	TIME	TEMP	COND (umhos/cm)	PH	DO
DZ	1115A	28.7	11530	6.95	0.40 mg/L

COLORS & SHEENS: YES YELLOWISH COLOR NO SHEENS NO ___

CONTAINER CODE:

NO. COL.	TYPE	PRESERVATIVE	CONTAINER TYPE	COLLECTED DATE	COLLECTED TIME
	[redacted]				
1	CYANIDE	NAOH	250 ml. PLASTIC	2-11-02	1115A
2	EDB	NONE	2-40 ml. SEPTUM VIAL		
1	GENERAL	NONE	1000 ml. PLASTIC		
1	HYD SULFIDE	2 ml. NAOH-ZNAC	250 ml. PLASTIC		
1	METALS	2 ml. HNO3	500 ml. PLASTIC		
1	NUTRIENTS	2 ml. H2SO4	250 ml. PLASTIC		
	[redacted]				
5	ORGANICS (8081/8082,8141,8151,8270)		5-1 ltr. AMBER GLASS		
2	RADIOLOGY	10 ml. HNO3	1 gal. PLASTIC		
3	VOC	1:1 HCL	40 ml. SEPTUM VIAL		

17 TOTAL No. OF SAMPLES COLLECTED:

ANALYSES REQUESTED:

BICARBONATE CHLORIDES CONDUCTANCE IRON MERCURY NITRATE
SODIUM TDS, PH, TOTAL AMMONIA - N
PARAMETERS LISTED IN 40 CFR PART 258, APPENDIX I &II ALL VOC's BY EPA 8260

PRESERVED SAMPLES PH < 2.0 ✓ SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

			DATE	TIME
RELINQUISHED BY:	[signature]	REP. OF SOLID WASTE DEPT.	2-11-02	0400
ACCEPTED BY:	[signature]	REP. OF COMMON CARRIER	2-11-02	2100
RELINQUISHED BY:	[signature]	REP. OF COMMON CARRIER	2/11/02	0900
ACCEPTED BY:	P. Harper	REP. OF CONTRACT LAB.	2/12/02	9:30

COMMON CARRIER UTILIZED: GREYHOUND BUS LINES OTHER: ___

COMMENT`S: ___