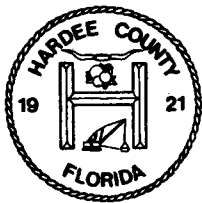


REGIONAL LF

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HARDEE COUNTY

Department of Solid Waste & Recycling Center

P.O. Box 246
Wauchula, Florida 33873

RECEIVED

APR 5 1995

EA, SOLID WASTE

40612

SO25-214306

April 3, 1995

Department of Environmental Protections
Waste Management Section
Attention: Allison Amram, Environmental Specialist III
3804 Coconut Palm Drive
Tampa, FL 33619-8318

RE: Monthly Water Balance for March, 1995
Monthly Ground Water Elevation
Quarterly Water Sampling and Analysis
Quarterly Methane Gas Monitoring
Quarterly Leachate Sampling and Analysis

Dear Ms. Amram:

Submitted for your review are the above referenced materials. Please feel free to contact myself or Janice should you have any questions.

Sincerely,

J.R. Prestridge,
Assistant County Manager
Solid Waste Superintendent

jw

CC: Allison Amram - DEP, Tampa
Chongman Lee - DEP, Tallahassee
Ed Hilton - Post, Buckley, Schuh & Jernigan, Inc.
Mike Heine - City of Wauchula (Leachate ONLY)
file

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 US 27 South
Sebring, Florida 33870
1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge


Dear Mr. Prestridge:

Please find enclosed quarterly reports for the Hardee County Landfill. With the exception of turbidity, all data meets the contaminant levels published. In my conversations with the Tampa office of DEP, turbidity only poses a problem if heavy metal concentrations are affected. In the enclosed reports, you will notice positive results for arsenic and lead in some wells. These levels are under the maximum contaminant levels.

However, concerning the report issued by your consulting engineers, we have reexamined our sampling procedures. The only significant change we will make concerns pumping rate while evacuating monitoring wells. We agree that excessive pumping rates may cause considerable turbulence within the well casing and result in higher turbidity values than expected. Our field team will be visiting the landfill this week to sample wells using different pumping equipment.

If you have any questions or would wish to discuss these reports or our plans for future sampling, please contact me.

Sincerely,


Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 US 27 South
Sebring, Florida 33870
1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95

For: Hardee County Board of County Commissioners
Dept. of Solids Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

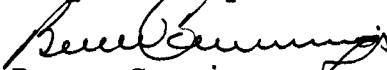
Laboratory Number: 02/21a-02/21e

Sample type: Air
Project: Hardee County
Location: Landfill
Sampled by: R. Greene\R. Rapp on 02-21-95, pm
Received: Field measurement, no sample received

REPORT OF ANALYSIS

FIELD ID #	Sample ID	Methane	Units	Method
02/21a	Mr. Prestridge's Office	< 1.	mg/L	Trace-Techto
02/21b	Janice's Office	< 1.	mg/L	Trace-Techto
02/21c	Scale House	< 1.	mg/L	Trace-Techto
02/21d	Shop	< 1.	mg/L	Trace-Techto
02/21e	Parts Room	< 1.	mg/L	Trace-Techto

Respectfully Submitted,


Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South
Sebring, Florida 33870

1-800-833-4022

HRS # 85344

(813) 655-4022

03-25-95

Page 1

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 33871

Sample type: Groundwater
Project: Hardee County
Location: Landfill
Sample ID: MW-1
Sampled by: R. Greene\R. Rapp on 02-21-95 @ 0945
Received: 02-21-95 @ 1445

REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	5.26	S.U.	EPA 150.1
Conductivity	330.	umhos/cm	EPA 120.1
Temperature	21.9	Degrees C	EPA 170.1
Dissolved Oxygen	6.1	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	3.42	Ft.	
Water level	9.42	Ft.	
Groundwater elevation (TOC)	85.44	Ft.	
Volume removed before sampling	9.00	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Color	230.	Pt/Co	EPA 110.2
Total Dissolved Solids	282.	mg/L	EPA 160.1
Turbidity	126.	NTU	EPA 180.1
Arsenic (As)	0.021	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	27.4	mg/L	EPA 236.1
Lead (Pb)	0.02	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	19.	mg/L	EPA 273.1
Bicarbonate as CaCO3	< 1.	mg/L	EPA 310.1
Chloride (Cl)	55.	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.38	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.38	mg/L	EPA 350.1

Respectfully Submitted,

Bruce Cummings
Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 2

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33871

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-1
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 0945
 Received: 02-21-95 @ 1445

REPORT OF ANALYSIS


FIELD DATA

Parameter	Result	Units	Method
pH	5.26	S.U.	EPA 150.1
Conductivity	330.	umhos/cm	EPA 120.1
Temperature	21.9	Degrees C	EPA 170.1
Dissolved Oxygen	6.1	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	3.42	Ft.	
Water level	9.42	Ft.	
Groundwater elevation (TOC)	85.44	Ft.	
Volume removed before sampling	9.00	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.04	mg/L	EPA 353.2
Total Organic Carbon	63.	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,


 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 1

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33872

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-2
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 0830
 Received: 02-21-95 @ 1445

4570

REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	6.83	S.U.	EPA 150.1
Conductivity	340.	umhos/cm	EPA 120.1
Temperature	19.2	Degrees C	EPA 170.1
Dissolved Oxygen	5.8	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	3.75	Ft.	
Water level	9.50	Ft.	
Groundwater elevation (TOC)	82.11	Ft.	
Volume removed before sampling	8.75	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Color	17.	Pt/Co	EPA 110.2
Total Dissolved Solids	242.	mg/L	EPA 160.1
Turbidity	269.	NTU	EPA 180.1
Arsenic (As)	0.009	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	18.9	mg/L	EPA 236.1
Lead (Pb)	0.007	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	10.	mg/L	EPA 273.1
Bicarbonate as CaCO3	164.	mg/L	EPA 310.1
Chloride (Cl)	20.	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.17	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.17	mg/L	EPA 350.1

Respectfully Submitted,

Bruce Cummings
 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 2

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33872

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-2
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 0830
 Received: 02-21-95 @ 1445

REPORT OF ANALYSIS

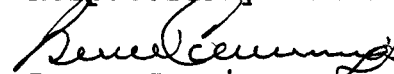
FIELD DATA

Parameter	Result	Units	Method
pH	6.83	S.U.	EPA 150.1
Conductivity	340.	umhos/cm	EPA 120.1
Temperature	19.2	Degrees C	EPA 170.1
Dissolved Oxygen	5.8	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	3.75	Ft.	
Water level	9.50	Ft.	
Groundwater elevation (TOC)	82.11	Ft.	
Volume removed before sampling	8.75	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.03	mg/L	EPA 353.2
Total Organic Carbon	7.7	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,


 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 1

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33873

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-3
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1045
 Received: 02-21-95 @ 1445

4571

REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	5.92	S.U.	EPA 150.1
Conductivity	95.	umhos/cm	EPA 120.1
Temperature	21.1	Degrees C	EPA 170.1
Dissolved Oxygen	5.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	4.82	Ft.	
Water level	12.18	Ft.	
Groundwater elevation (TOC)	82.93	Ft.	
Volume removed before sampling	11.25	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Color	19.	Pt/Co	EPA 110.2
Total Dissolved Solids	56.	mg/L	EPA 160.1
Turbidity	77.	NTU	EPA 180.1
Arsenic (As)	< 0.005	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	3.74	mg/L	EPA 236.1
Lead (Pb)	0.005	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	3.5	mg/L	EPA 273.1
Bicarbonate as CaCO3	24.	mg/L	EPA 310.1
Chloride (Cl)	7.1	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.11	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.11	mg/L	EPA 350.1

Respectfully Submitted,

Bruce Cummings
 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 2

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33873

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-3
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1045
 Received: 02-21-95 @ 1445

REPORT OF ANALYSIS


FIELD DATA

Parameter	Result	Units	Method
pH	5.92	S.U.	EPA 150.1
Conductivity	95.	umhos/cm	EPA 120.1
Temperature	21.1	Degrees C	EPA 170.1
Dissolved Oxygen	5.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	4.82	Ft.	
Water level	12.18	Ft.	
Groundwater elevation (TOC)	82.93	Ft.	
Volume removed before sampling	11.25	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.03	mg/L	EPA 353.2
Total Organic Carbon	4.6	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,


 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 1

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33874

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-4
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 0915
 Received: 02-21-95 @ 1445


4572

REPORT OF ANALYSIS

FIELD DATA Parameter	Result	Units	Method
pH	6.06	S.U.	EPA 150.1
Conductivity	340.	umhos/cm	EPA 120.1
Temperature	20.1	Degrees C	EPA 170.1
Dissolved Oxygen	5.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	4.58	Ft.	
Water level	17.42	Ft.	
Groundwater elevation (TOC)	82.58	Ft.	
Volume removed before sampling	8.50	Gal.	

LABORATORY DATA Parameter	Result	Units	Method
Color	1450.	Pt/Co	EPA 110.2
Total Dissolved Solids	298.	mg/L	EPA 160.1
Turbidity	166.	NTU	EPA 180.1
Arsenic (As)	0.019	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	48.1	mg/L	EPA 236.1
Lead (Pb)	< 0.001	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	4.0	mg/L	EPA 273.1
Bicarbonate as CaCO3	116.	mg/L	EPA 310.1
Chloride (Cl)	9.8	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.46	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.46	mg/L	EPA 350.1

Respectfully Submitted,


 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 US 27 South
Sebring, Florida 33870
1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
Page 2

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 33874

Sample type: Groundwater
Project: Hardee County
Location: Landfill
Sample ID: MW-4
Sampled by: R. Greene\R. Rapp on 02-21-95 @ 0915
Received: 02-21-95 @ 1445

REPORT OF ANALYSIS

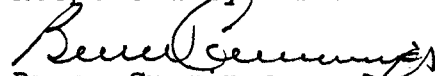
FIELD DATA

Parameter	Result	Units	Method
pH	6.06	S.U.	EPA 150.1
Conductivity	340.	umhos/cm	EPA 120.1
Temperature	20.1	Degrees C	EPA 170.1
Dissolved Oxygen	5.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	4.58	Ft.	
Water level	17.42	Ft.	
Groundwater elevation (TOC)	82.58	Ft.	
Volume removed before sampling	8.50	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.05	mg/L	EPA 353.2
Total Organic Carbon	72.	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,


Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
 10405 US 27 South
 Sebring, Florida 33870
 1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
 Page 1

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33875

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-5
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1015
 Received: 02-21-95 @ 1445

4573

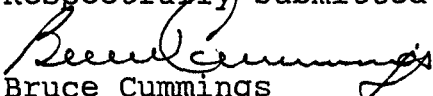
REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	5.70	S.U.	EPA 150.1
Conductivity	85.	umhos/cm	EPA 120.1
Temperature	21.1	Degrees C	EPA 170.1
Dissolved Oxygen	5.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	7.17	Ft.	
Water level	13.83	Ft.	
Groundwater elevation (TOC)	81.59	Ft.	
Volume removed before sampling	6.75	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Color	16.	Pt/Co	EPA 110.2
Total Dissolved Solids	48.	mg/L	EPA 160.1
Turbidity	136.	NTU	EPA 180.1
Arsenic (As)	< 0.005	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	7.86	mg/L	EPA 236.1
Lead (Pb)	0.004	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	22.	mg/L	EPA 273.1
Bicarbonate as CaCO3	8.0	mg/L	EPA 310.1
Chloride (Cl)	7.2	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.21	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.21	mg/L	EPA 350.1

Respectfully Submitted,

 Bruce Cummings
 Laboratory Manager

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33875

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-5
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1015
 Received: 02-21-95 @ 1445

REPORT OF ANALYSIS


FIELD DATA

Parameter	Result	Units	Method
pH	5.70	S.U.	EPA 150.1
Conductivity	85.	umhos/cm	EPA 120.1
Temperature	21.1	Degrees C	EPA 170.1
Dissolved Oxygen	5.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	7.17	Ft.	
Water level	13.83	Ft.	
Groundwater elevation (TOC)	81.59	Ft.	
Volume removed before sampling	6.75	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.03	mg/L	EPA 353.2
Total Organic Carbon	8.5	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,


 Bruce Cummings
 Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 US 27 South
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1-800-833-4022 HRS # 85344 (813) 655-4022

03-25-95
Page 1

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 33876

Sample type: Groundwater
Project: Hardee County
Location: Landfill
Sample ID: MW-6
Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1145
Received: 02-21-95 @ 1445

4574

REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	5.50	S.U.	EPA 150.1
Conductivity	185.	umhos/cm	EPA 120.1
Temperature	21.5	Degrees C	EPA 170.1
Dissolved Oxygen	4.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	6.00	Ft.	
Water level	17.92	Ft.	
Groundwater elevation (TOC)	81.94	Ft.	
Volume removed before sampling	9.0	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Color	0.	Pt/Co	EPA 110.2
Total Dissolved Solids	76.	mg/L	EPA 160.1
Turbidity	80.	NTU	EPA 180.1
Arsenic (As)	< 0.005	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	6.97	mg/L	EPA 236.1
Lead (Pb)	0.001	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	22.	mg/L	EPA 273.1
Bicarbonate as CaCO3	< 1.	mg/L	EPA 310.1
Chloride (Cl)	44.	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.11	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.11	mg/L	EPA 350.1

Respectfully Submitted,


Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
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03-25-95
 Page 2

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33876

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-6
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1145
 Received: 02-21-95 @ 1445

REPORT OF ANALYSIS


FIELD DATA

Parameter	Result	Units	Method
pH	5.50	S.U.	EPA 150.1
Conductivity	185.	umhos/cm	EPA 120.1
Temperature	21.5	Degrees C	EPA 170.1
Dissolved Oxygen	4.4	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	6.00	Ft.	
Water level	17.92	Ft.	
Groundwater elevation (TOC)	81.94	Ft.	
Volume removed before sampling	9.0	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.03	mg/L	EPA 353.2
Total Organic Carbon	3.3	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,


 Bruce Cummings
 Laboratory Manager

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03-25-95
Page 1

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 33877

Sample type: Groundwater
Project: Hardee County
Location: Landfill
Sample ID: MW-7
Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1115
Received: 02-21-95 @ 1445

4575

REPORT OF ANALYSIS

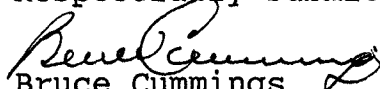
FIELD DATA

Parameter	Result	Units	Method
pH	5.04	S.U.	EPA 150.1
Conductivity	190.	umhos/cm	EPA 120.1
Temperature	20.5	Degrees C	EPA 170.1
Dissolved Oxygen	4.8	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	5.50	Ft.	
Water level	18.50	Ft.	
Groundwater elevation (TOC)	82.01	Ft.	
Volume removed before sampling	9.25	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Color	25.	Pt/Co	EPA 110.2
Total Dissolved Solids	110.	mg/L	EPA 160.1
Turbidity	15.	NTU	EPA 180.1
Arsenic (As)	< 0.005	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	7.42	mg/L	EPA 236.1
Lead (Pb)	< 0.001	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	25.	mg/L	EPA 273.1
Bicarbonate as CaCO3	5.0	mg/L	EPA 310.1
Chloride (Cl)	52.	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	0.38	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	0.38	mg/L	EPA 350.1

Respectfully Submitted,


Bruce Cummings
Laboratory Manager

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03-25-95
 Page 2

For: Hardee County Board of County Commissioners
 Dept. of Solid Waste & Recycling Center
 P.O. Box 246
 Wauchula, FL 33873
 Attn: J.R. Prestridge

Laboratory Number: 33877

Sample type: Groundwater
 Project: Hardee County
 Location: Landfill
 Sample ID: MW-7
 Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1115
 Received: 02-21-95 @ 1445

REPORT OF ANALYSIS

FIELD DATA

Parameter	Result	Units	Method
pH	5.04	S.U.	EPA 150.1
Conductivity	190.	umhos/cm	EPA 120.1
Temperature	20.5	Degrees C	EPA 170.1
Dissolved Oxygen	4.8	mg/L	EPA 360.1
Sheens	No Sheen		
Water depth	5.50	Ft.	
Water level	18.50	Ft.	
Groundwater elevation (TOC)	82.01	Ft.	
Volume removed before sampling	9.25	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Nitrate (NO3-N)	0.02	mg/L	EPA 353.2
Total Organic Carbon	8.0	mg/L	EPA 415.1
1,1,1-trichloroethane	< 1.	ug/L	EPA 601
1,1,2,2-tetrachloroethane	< 1.	ug/L	EPA 601
1,1,2-trichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethane	< 1.	ug/L	EPA 601
1,1-dichloroethene	< 1.	ug/L	EPA 601
1,2-dichloroethane	< 1.	ug/L	EPA 601
1,2-dichloropropane	< 1.	ug/L	EPA 601
2-chloroethylvinyl ether	< 1.	ug/L	EPA 601
Bromodichloromethane	< 1.	ug/L	EPA 601
Bromoform	< 1.	ug/L	EPA 601
Bromomethane	< 1.	ug/L	EPA 601
Carbon tetrachloride	< 1.	ug/L	EPA 601

Respectfully Submitted,

Bruce Cummings
 Bruce Cummings
 Laboratory Manager

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Sebring, Florida 33870
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03-25-95
Page 1

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 33878

Sample type: Leachate
Project: Hardee County
Location: Landfill
Sample ID: Leachate
Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1215
Received: 02-21-95 @ 1445

REPORT OF ANALYSIS

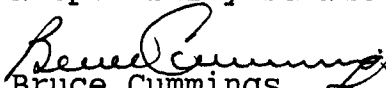
FIELD DATA

Parameter	Result	Units	Method
pH	5.84	S.U.	EPA 150.1
Conductivity	380.	umhos/cm	EPA 120.1
Temperature	20.9	Degrees C	EPA 170.1
Dissolved Oxygen	3.4	mg/L	EPA 360.1
Sheens	Sheen		

LABORATORY DATA

Parameter	Result	Units	Method
Color	260.	Pt/Co	EPA 110.2
Total Dissolved Solids	216.	mg/L	EPA 160.1
Arsenic (As)	< 0.005	mg/L	EPA 206.2
Cadmium (Cd)	< 0.002	mg/L	EPA 213.1
Chromium (Cr)	< 0.02	mg/L	EPA 218.1
Iron (Fe)	73.6	mg/L	EPA 236.1
Lead (Pb)	< 0.001	mg/L	EPA 239.2
Mercury (Hg)	< 0.001	mg/L	EPA 245.2
Sodium (Na)	23.	mg/L	EPA 273.1
Bicarbonate as CaCO3	104.	mg/L	EPA 310.1
Chloride (Cl)	43.	mg/L	EPA 325.3
Ammonia Nitrogen (NH3-N)	5.89	mg/L	EPA 350.1
Ammonium Nitrogen (NH4-N)	5.89	mg/L	EPA 350.1
Nitrate (NO3-N)	0.03	mg/L	EPA 353.2
Total Organic Carbon	20.	mg/L	EPA 415.1

Respectfully Submitted,


Bruce Cummings
Laboratory Manager

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03-25-95
Page 4

For: Hardee County Board of County Commissioners
Dept. of Solid Waste & Recycling Center
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 33878

Sample type: Leachate
Project: Hardee County
Location: Landfill
Sample ID: Leachate
Sampled by: R. Greene\R. Rapp on 02-21-95 @ 1215
Received: 02-21-95 @ 1445

REPORT OF ANALYSIS

FIELD DATA

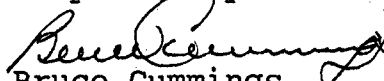
Parameter	Result	Units	Method
pH	5.84	S.U.	EPA 150.1
Conductivity	380.	umhos/cm	EPA 120.1
Temperature	20.9	Degrees C	EPA 170.1
Dissolved Oxygen Sheens	3.4	mg/L	EPA 360.1
	Sheen		

LABORATORY DATA

1,2-dichlorobenzene	<	0.05	ug/L	EPA 602
1,3-dichlorobenzene	<	0.02	ug/L	EPA 602
1,4-dichlorobenzene	<	2.3	ug/L	EPA 602
Benzene	<	0.01	ug/L	EPA 602
Chlorobenzene	<	0.01	ug/L	EPA 602
Ethylbenzene	<	0.01	ug/L	EPA 602
Methyl tertiary butyl ether	<	0.10	ug/L	EPA 602
Toluene	<	0.01	ug/L	EPA 602
Xylenes (total)	<	0.02	ug/L	EPA 602

EPA Methods 415.1, 601 & 602 performed by HRS # E83079

Respectfully Submitted,


Bruce Cummings
Laboratory Manager