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JRM  
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HARDEE COUNTY S.

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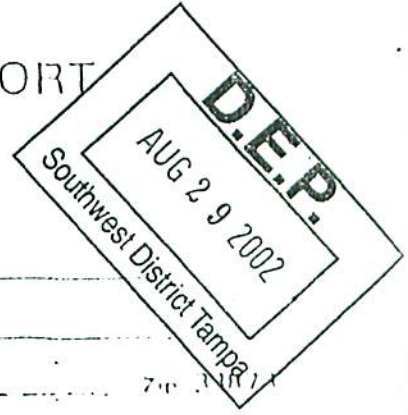
Leachate  
GAS  
GW } no cover letter

DEP Form # 02-522.600(11)
Form Title <u>GROUND WATER MONITORING REPORT</u>
Effective Date _____
DEP Application No. _____

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

# GROUND WATER MONITORING REPORT

Rule 02-522.600(11)



## PART I GENERAL INFORMATION

1. Facility Name Hardee County Solid Waste Disposal Facility  
 Address 685 Airport Road  
 City Wauchula, FL  
 Telephone Number ( 863 ) 773-5089

2. The GMS Identification Number 4025C30001

3. DEP Permit Number S025-214306

4. Authorized Representative Name Bruce Cummings  
 Address 10405 US 27 South  
 City Sebring, FL Zip 33876  
 Telephone Number ( 863 ) 655-4022

5. Type of Discharge \_\_\_\_\_

6. Method of Discharge \_\_\_\_\_

### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this report, its attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, 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.

Title: Asst. Dir. \_\_\_\_\_ Signature of Owner or Authorized Rep: [Signature] For Hardee County BOCC

## PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # 880516

Analytical Lab Comp QAP #/HHS Certification # 880516, E85458  
 Comp QAP #/HHS Certification # E84090

Lab Name Short Environmental Laboratories, Inc.  
 Address 10405 US 27 South, Sebring, FL 33876  
 Telephone Number ( 863 ) 655-4022

SAMPLED LEACHATE AT MANHOLE 9, BUT PERMIT INDICATES SHOULD BE SAMPLED AT MANHOLE 1  
FOR COPY OF 6/02 SAMPLING EVENT, USED THIS DATE AS COMET REC'D DATE

JUNE 2002 SAMPLING EVENT

**SHORT ENVIRONMENTAL LABORATORIES, INC.**

10405 US 27 South  
Sebring, Florida 33876

(800) 833-4022    FDOH# E85458, FDEP QAP# 880516    (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 1 of 5

Laboratory Number:    164282

Project:            HCSW  
Location:          Landfill  
Sample ID:        Leachate - Manhole 9  
Sampled By:      E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received:        06/10/2002 @ 1610

REPORT OF ANALYSIS

FIELD DATA

Temperature	33.8	deg. C
pH	7.53	S.U.
Conductivity	759.	umho/cm
Dissolved Oxygen	6.5	mg/L
Color & Sheen	Color	

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Total Dissolved Solids	478.	mg/L	EPA 160.1	J. Maurer	06/14/2002 @ 1028	10.
Alkalinity	334.	mg/L	EPA 310.1	D. Morton	06/12/2002 @ 0957	0.5
Chloride	66.	mg/L	EPA 325.3	B. Howard	06/11/2002 @ 0851	0.5
Ammonia Nitrogen (NH3-N)	0.07	mg/L	EPA 350.1	J. Cosgrave	06/18/2002 @ 1331	0.04
Nitrite Nitrogen (NO2-N)	0.01u	mg/L	EPA 353.2	J. Cosgrave	06/12/2002 @ 0827	0.01
Nitrate Nitrogen (NO3-N)	0.04	mg/L	Calc.	J. Cosgrave	06/19/2002 @ 0850	0.02
Nitrate + Nitrite N (NO2+NO3)	0.04	mg/L	EPA 353.2	J. Cosgrave	06/19/2002 @ 0850	0.02
Antimony	0.003u	mg/L	EPA 204.2	D. Murto	07/11/2002 @ 1138	0.003
Arsenic	0.007	mg/L	EPA 206.3	J. Mansell	06/27/2002 @ 1009	0.005
Barium	0.04	mg/L	EPA 208.1	J. Mansell	07/09/2002 @ 1021	0.02
Beryllium	0.001u	mg/L	EPA 210.2	D. Murto	07/14/2002 @ 1319	0.001
Cadmium	0.002u	mg/L	EPA 213.1	J. Mansell	07/10/2002 @ 1338	0.002

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876

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08/27/2002  
Page 2 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
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Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
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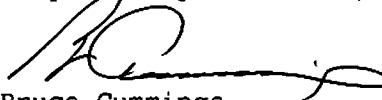
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Chromium	0.006	mg/L	EPA 218.2	D. Murto	07/05/2002 @ 1210	0.005
Cobalt	0.05u	mg/L	EPA 6010	E84098	06/14/2002 @ 1259	0.05
Copper	0.01u	mg/L	EPA 220.1	J. Mansell	07/01/2002 @ 1232	0.01
Iron	1.91	mg/L	EPA 236.1	J. Mansell	07/11/2002 @ 1041	0.02
Lead	0.005	mg/L	EPA 239.2	D. Murto	06/25/2002 @ 1735	0.001
Mercury	0.001u	mg/L	EPA 245.1	J. Mansell	07/02/2002 @ 1112	0.001
Nickel	0.02	mg/L	EPA 249.1	J. Mansell	07/10/2002 @ 1537	0.01
Selenium	0.005u	mg/L	EPA 270.2	D. Murto	07/09/2002 @ 1631	0.005
Silver	0.001u	mg/L	EPA 272.2	D. Murto	07/20/2002 @ 1523	0.001
Sodium	32.	mg/L	EPA 273.1	J. Mansell	06/19/2002 @ 1558	1.0
Thallium	0.002u	mg/L	EPA 279.2	D. Murto	06/27/2002 @ 1300	0.002
Vanadium	0.10u	mg/L	EPA 6010	E84098	06/14/2002 @ 1259	0.10
Zinc	0.014	mg/L	EPA 289.1	J. Mansell	07/08/2002 @ 1421	0.002
Acetone	2.5u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	2.5
Acrylonitrile	1.5u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	1.5
Benzene	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
Bromochloromethane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
Bromodichloromethane	0.08u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.08
Tribromomethane	0.12u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.12

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876

(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 3 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received: 06/10/2002 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Carbon Disulfide	4.1u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	4.1
Carbon Tetrachloride	0.21u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.21
Chlorobenzene	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
Chloroethane	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
Trichloromethane	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
Dibromochloromethane	0.05u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.05
1,2-Dibromo-3-Chloropropane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
1,2-Dibromoethane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
1,2-Dichlorobenzene	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
1,4-Dichlorobenzene	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
t-1,4-Dichloro-2-Butene	10.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	10.0
1,1-Dichloroethane	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
1,2-Dichloroethane	0.02u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.02
1,1-Dichloroethene	0.12u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.12
cis-1,2-Dichloroethene	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
trans-1,2-Dichloroethene	0.06u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.06
1,2-Dichloropropane	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
cis-1,3-Dichloropropene	0.05u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.05
trans-1,3-Dichloropropene	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04

u = Parameter was analyzed for but not detected

Respectfully Submitted,



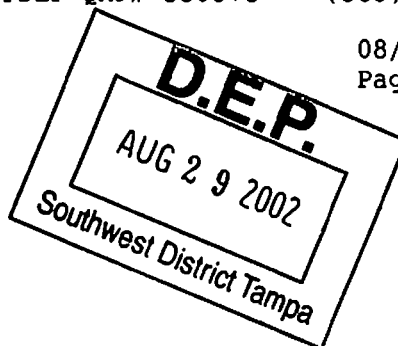
Bruce Cummings  
Laboratory Director

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10405 US 27 South  
Sebring, Florida 33876  
(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 4 of 5



Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received: 06/10/2002 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Ethylbenzene	0.06u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.06
2-Hexanone	5.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	5.0
Bromomethane	0.11u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.11
Chloromethane	0.13u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.13
Dibromomethane	0.30u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.30
Dichloromethane	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
2-Butanone	5.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	5.0
Iodomethane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
4-Methyl-2-Pentanone	5.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	5.0
Styrene	1.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	1.0
1,1,1,2-Tetrachloroethane	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
1,1,2,2-Tetrachloroethane	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
Tetrachloroethene	0.14u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.14
Toluene	0.11u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.11
1,1,1-Trichloroethane	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
1,1,2-Trichloroethane	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
Trichloroethene	0.19u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.19
Trichlorofluoromethane	0.08u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.08
1,2,3-Trichloropropane	0.30u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.30

u = Parameter was analyzed for but not detected

Respectfully Submitted,

Bruce Cummings  
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876

(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 5 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received: 06/10/2002 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Vinyl Acetate	10.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	10.0
Vinyl Chloride	0.17u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.17
Xylenes	0.11u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.11

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 06/10/02 @ 1410

Test Site ID #: 4025A

Report Period: 01/01/02 to 06/30/02

Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: [ ] Background  
 [ ] Intermediate  
 [ ] Compliance  
 [x] Other

Groundwater Elevation (MSL):           ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	06/10/02 @ 1410	759. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	06/10/02 @ 1410	7.53 S.U.	S.U.
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	06/10/02 @ 1410	6.5 mg/L	0.1 mg/L
000010	Temperature (field)	Bailer	No	EPA 170.1	06/10/02 @ 1410	33.8 C	C
085326	Colors & Sheens (by observation)	Bailer	No	EPA	06/10/02 @ 1410	Color	
000610	Total Ammonia - N	Bailer	No	EPA 350.1	06/18/02 @ 1331	0.07 mg/L	0.04 mg/L
	Bicarbonate	Bailer	No	EPA 310.1	06/12/02 @ 0957	334. mg/L	1.0 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	06/11/02 @ 0851	66. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	07/11/02 @ 1041	1.91 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.1	07/02/02 @ 1112	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	06/19/02 @ 0850	0.04 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	06/19/02 @ 1558	32. mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	06/14/02 @ 1028	478. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	07/11/02 @ 1138	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	06/27/02 @ 1009	0.007 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	07/09/02 @ 1021	0.04 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	07/14/02 @ 1319	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	07/10/02 @ 1338	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.2	07/05/02 @ 1210	0.006 mg/L	0.005 mg/L
001037	Cobalt	Bailer	No	EPA 6010	06/14/02 @ 1259	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	07/01/02 @ 1232	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	06/25/02 @ 1735	0.005 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	07/10/02 @ 1537	0.02 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	07/09/02 @ 1631	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	07/20/02 @ 1523	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	06/27/02 @ 1300	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	06/14/02 @ 1259	< 0.10 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	07/08/02 @ 1421	0.014 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	06/18/02	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	06/18/02	< 1.5 ug/L	1.0 ug/L

## PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 06/10/02 @ 1410Test Site ID #: 4025AReport Period: 01/01/02 to 06/30/02Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: [ ] Background  
[ ] Intermediate  
[ ] Compliance  
[x] Other

Groundwater Elevation (MSL):           ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	06/18/02	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	06/18/02	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	06/18/02	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	06/18/02	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	06/18/02	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	06/18/02	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	06/18/02	< 0.50 ug/L	0.50 ug/L
046369	1,2-Dibromoethane	Bailer	No	EPA 8260	06/18/02	< 0.50 ug/L	0.50 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	06/18/02	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	06/18/02	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	06/18/02	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	06/18/02	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	06/18/02	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	06/18/02	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	06/18/02	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	06/18/02	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	06/18/02	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.14 ug/L	0.14 ug/L



PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 06/10/01 @ 1410

Test Site ID #: 4025A

Report Period: 01/01/02 to 06/30/02

Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: [ ] Background  
 [ ] Intermediate  
 [ ] Compliance  
 [x] Other

Groundwater Elevation (MSL):           ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	06/18/02	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	06/18/02	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	06/18/02	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	06/18/02	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	06/18/02	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	06/18/02	< 0.11 ug/L	0.11 ug/L



Leachate

685 AIRPORT ROAD  
WAUCHULA, FL 33873-8663  
PHONE: (863) 773-5089  
FAX: (863) 773-3907

# Hardee County Solid Waste Department

August 29, 2002

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



Dear Allison:

Submitted for your review are the following:

- ❖ Biannual Groundwater Sampling
- ❖ Biannual Leachate Sampling
- ❖ Biannual Piezometer and Monitoring Well Groundwater Elevations
- ❖ Quarterly Methane Gas Sampling

Please contact me should you have any questions or comments

Sincerely,

Janice Williamson  
Solid Waste Superintendent

Cc: Chongman Lee-DEP, Tallahassee; Andy Maddox – City of Wauchula

HARD COPY OF  
JUNE 2002  
LEACHATE SAMPLING  
EVENT PREVIOUSLY  
REC'D VIA FAX  
ON 8/29/02

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876

(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 1 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received: 06/10/2002 @ 1610

REPORT OF ANALYSIS

FIELD DATA

Temperature 33.8 deg. C  
pH 7.53 S.U.  
Conductivity 759. umho/cm  
Dissolved Oxygen 6.5 mg/L  
Color & Sheen Color

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Total Dissolved Solids	478.	mg/L	EPA 160.1	J. Maurer	06/14/2002 @ 1028	10.
Alkalinity	334.	mg/L	EPA 310.1	D. Morton	06/12/2002 @ 0957	0.5
Chloride	66.	mg/L	EPA 325.3	B. Howard	06/11/2002 @ 0851	0.5
Ammonia Nitrogen (NH3-N)	0.07	mg/L	EPA 350.1	J. Cosgrave	06/18/2002 @ 1331	0.04
Nitrite Nitrogen (NO2-N)	0.01u	mg/L	EPA 353.2	J. Cosgrave	06/12/2002 @ 0827	0.01
Nitrate Nitrogen (NO3-N)	0.04	mg/L	Calc.	J. Cosgrave	06/19/2002 @ 0850	0.02
Nitrate + Nitrite N (NO2+NO3)	0.04	mg/L	EPA 353.2	J. Cosgrave	06/19/2002 @ 0850	0.02
Antimony	0.003u	mg/L	EPA 204.2	D. Murto	07/11/2002 @ 1138	0.003
Arsenic	0.007	mg/L	EPA 206.3	J. Mansell	06/27/2002 @ 1009	0.005
Barium	0.04	mg/L	EPA 208.1	J. Mansell	07/09/2002 @ 1021	0.02
Beryllium	0.001u	mg/L	EPA 210.2	D. Murto	07/14/2002 @ 1319	0.001
Cadmium	0.002u	mg/L	EPA 213.1	J. Mansell	07/10/2002 @ 1338	0.002

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

**SHORT ENVIRONMENTAL LABORATORIES, INC.**

10405 US 27 South  
Sebring, Florida 33876  
(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

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08/27/2002  
Page 2 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
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Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
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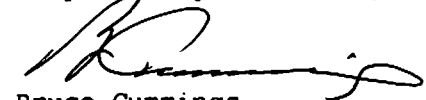
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Chromium	0.006	mg/L	EPA 218.2	D. Murto	07/05/2002 @ 1210	0.005
Cobalt	0.05u	mg/L	EPA 6010	E84098	06/14/2002 @ 1259	0.05
Copper	0.01u	mg/L	EPA 220.1	J. Mansell	07/01/2002 @ 1232	0.01
Iron	1.91	mg/L	EPA 236.1	J. Mansell	07/11/2002 @ 1041	0.02
Lead	0.005	mg/L	EPA 239.2	D. Murto	06/25/2002 @ 1735	0.001
Mercury	0.001u	mg/L	EPA 245.1	J. Mansell	07/02/2002 @ 1112	0.001
Nickel	0.02	mg/L	EPA 249.1	J. Mansell	07/10/2002 @ 1537	0.01
Selenium	0.005u	mg/L	EPA 270.2	D. Murto	07/09/2002 @ 1631	0.005
Silver	0.001u	mg/L	EPA 272.2	D. Murto	07/20/2002 @ 1523	0.001
Sodium	32.	mg/L	EPA 273.1	J. Mansell	06/19/2002 @ 1558	1.0
Thallium	0.002u	mg/L	EPA 279.2	D. Murto	06/27/2002 @ 1300	0.002
Vanadium	0.10u	mg/L	EPA 6010	E84098	06/14/2002 @ 1259	0.10
Zinc	0.014	mg/L	EPA 289.1	J. Mansell	07/08/2002 @ 1421	0.002
Acetone	2.5u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	2.5
Acrylonitrile	1.5u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	1.5
Benzene	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
Bromochloromethane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
Bromodichloromethane	0.08u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.08
Tribromomethane	0.12u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.12

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876

(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 3 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
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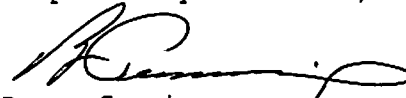
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Carbon Disulfide	4.1u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	4.1
Carbon Tetrachloride	0.21u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.21
Chlorobenzene	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
Chloroethane	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
Trichloromethane	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
Dibromochloromethane	0.05u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.05
1,2-Dibromo-3-Chloropropane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
1,2-Dibromoethane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
1,2-Dichlorobenzene	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
1,4-Dichlorobenzene	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
t-1,4-Dichloro-2-Butene	10.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	10.0
1,1-Dichloroethane	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
1,2-Dichloroethane	0.02u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.02
1,1-Dichloroethene	0.12u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.12
cis-1,2-Dichloroethene	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
trans-1,2-Dichloroethene	0.06u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.06
1,2-Dichloropropane	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
cis-1,3-Dichloropropene	0.05u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.05
trans-1,3-Dichloropropene	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

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Sebring, Florida 33876

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For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 4 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received: 06/10/2002 @ 1610

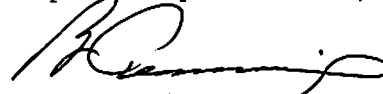
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Ethylbenzene	0.06u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.06
2-Hexanone	5.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	5.0
Bromomethane	0.11u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.11
Chloromethane	0.13u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.13
Dibromomethane	0.30u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.30
Dichloromethane	0.03u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.03
2-Butanone	5.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	5.0
Iodomethane	0.50u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.50
4-Methyl-2-Pentanone	5.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	5.0
Styrene	1.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	1.0
1,1,1,2-Tetrachloroethane	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
1,1,2,2-Tetrachloroethane	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
Tetrachloroethene	0.14u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.14
Toluene	0.11u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.11
1,1,1-Trichloroethane	0.04u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.04
1,1,2-Trichloroethane	0.10u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.10
Trichloroethene	0.19u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.19
Trichlorofluoromethane	0.08u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.08
1,2,3-Trichloropropane	0.30u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.30

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876

(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/27/2002  
Page 5 of 5

Laboratory Number: 164282

Project: HCSW  
Location: Landfill  
Sample ID: Leachate - Manhole 9  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1410  
Received: 06/10/2002 @ 1610

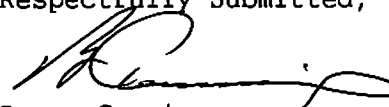
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Vinyl Acetate	10.0u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	10.0
Vinyl Chloride	0.17u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.17
Xylenes	0.11u	ug/L	EPA 8260	E84098	06/18/2002 @ 0000	0.11

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 06/10/02 @ 1410

Test Site ID #: 4025A

Report Period: 01/01/02 to 06/30/02

Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: [ ] Background  
 [ ] Intermediate  
 [ ] Compliance  
 [x] Other

Groundwater Elevation (MSL):           ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	06/10/02 @ 1410	759. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	06/10/02 @ 1410	7.53 S.U.	S.U.
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	06/10/02 @ 1410	6.5 mg/L	0.1 mg/L
000010	Temperature (field)	Bailer	No	EPA 170.1	06/10/02 @ 1410	33.8 C	C
085326	Colors & Sheens (by observation)	Bailer	No	EPA	06/10/02 @ 1410	Color	
000610	Total Ammonia - N	Bailer	No	EPA 350.1	06/18/02 @ 1331	0.07 mg/L	0.04 mg/L
	Bicarbonate	Bailer	No	EPA 310.1	06/12/02 @ 0957	334. mg/L	1.0 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	06/11/02 @ 0851	66. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	07/11/02 @ 1041	1.91 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.1	07/02/02 @ 1112	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	06/19/02 @ 0850	0.04 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	06/19/02 @ 1558	32. mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	06/14/02 @ 1028	478. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	07/11/02 @ 1138	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	06/27/02 @ 1009	0.007 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	07/09/02 @ 1021	0.04 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	07/14/02 @ 1319	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	07/10/02 @ 1338	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.2	07/05/02 @ 1210	0.006 mg/L	0.005 mg/L
001037	Cobalt	Bailer	No	EPA 6010	06/14/02 @ 1259	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	07/01/02 @ 1232	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	06/25/02 @ 1735	0.005 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	07/10/02 @ 1537	0.02 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	07/09/02 @ 1631	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	07/20/02 @ 1523	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	06/27/02 @ 1300	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	06/14/02 @ 1259	< 0.10 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	07/08/02 @ 1421	0.014 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	06/18/02	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	06/18/02	< 1.5 ug/L	1.0 ug/L



PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 06/10/02 @ 1410

Test Site ID #: 4025A

Report Period: 01/01/02 to 06/30/02

Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: [ ] Background  
 [ ] Intermediate  
 [ ] Compliance  
 [x] Other

Groundwater Elevation (MSL):           ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	06/18/02	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	06/18/02	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	06/18/02	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	06/18/02	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	06/18/02	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	06/18/02	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	06/18/02	< 0.50 ug/L	0.50 ug/L
046369	1,2-Dibromoethane	Bailer	No	EPA 8260	06/18/02	< 0.50 ug/L	0.50 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	06/18/02	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	06/18/02	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	06/18/02	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	06/18/02	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	06/18/02	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	06/18/02	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	06/18/02	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	06/18/02	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	06/18/02	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	06/18/02	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	06/18/02	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	06/18/02	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 06/10/01 @ 1410

Test Site ID #: 4025A

Report Period: 01/01/02 to 06/30/02

Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: [ ] Background  
 [ ] Intermediate  
 [ ] Compliance  
 [x] Other

Groundwater Elevation (MSL):           ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	06/18/02	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	06/18/02	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	06/18/02	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	06/18/02	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	06/18/02	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	06/18/02	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	06/18/02	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	06/18/02	< 0.11 ug/L	0.11 ug/L

SEMI-ANNUAL

SHORT ENVIRONMENTAL LABORATORIES

10405 US 27 S  
SEBRING, FL 33876  
(863) 655-4022 (800) 833-4022  
FAX: (863) 655-5820

LABORATORY ANALYSES											
1/2 GAL	250 ML	1 LITER		2	250 ML						
ALK EDS CL NO2	NBS NOx NO3	SO4P	PHGP	APP I VOC	Co V						
		ASIF	Hg								
		Br	Se/GP								
		Re/GP	NI								
		CS	Ag								
Ca/GP	Na										
		Cu	FF								
		Fe	Zn								

SAMPLER'S NAME: (PLEASE PRINT) E. McCarra L. Anila PROJECT NAME: HARDEE COUNTY SOLID WASTE #77

SAMPLER'S SIGNATURE: [Signature] PROJECT: HCSW LOCATION: LANDFILL

FIELD ID#	SAMPLE ID	DATE	TIME	SAMP TYPE	WELL	GRAB	LABORATORY ID#	# OF CONT
010117	LEACHATE	6-10-02	1410	WW		X	164282	6/8

NUTRIENT CONTAINERS PRESERVED, H2SO4  
METALS CONTAINER PRESERVED, HNO3  
VIALS PRESERVED, HCL  
Cu/H2S PRESERVED, NaOH/Zn(AC)  
ICED TO 4 DEGREES C

YES	NO
✓	
✓	
✓	
✓	

SAMPLE QTY:	RELINQUISHED BY:	ACCEPTED BY:	DATE:	TIME:
1	[Signature]	[Signature]	6-10-02	1600

26994

DEPARTED LAB	TIME
ARRIVED SITE	
DEPARTED SITE	
ARRIVED LAB	

CHAIN OF CUSTODY AND TRANSMITTAL FORM

HCSW1 12-11-00 [Signature] GW COC

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South

Sebring, Florida 33876

(800) 833-4022

FDOH# E85458, FDEP QAP# 880516

(863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/28/2002  
Page 1 of 2

Laboratory Number: 164283

Project: HCSW  
Location: Landfill  
Sample ID: Blank  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1345  
Received: 06/10/2002 @ 1610

REPORT OF ANALYSIS

FIELD DATA

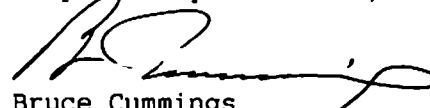
Temperature 34.0 deg. C  
pH 5.21 S.U.  
Conductivity < 1.0 umho/cm

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Total Dissolved Solids	10.u	mg/L	EPA 160.1	J. Maurer	06/13/2002 @ 0847	10.
Chloride	0.5u	mg/L	EPA 325.3	B. Howard	06/17/2002 @ 0941	0.5
Ammonia Nitrogen (NH3-N)	0.04u	mg/L	EPA 350.1	J. Cosgrave	06/18/2002 @ 0900	0.04
Nitrite Nitrogen (NO2-N)	0.01u	mg/L	EPA 353.2	J. Cosgrave	06/12/2002 @ 0827	0.01
Nitrate Nitrogen (NO3-N)	0.02u	mg/L	Calc.	J. Cosgrave	06/12/2002 @ 0944	0.02
Nitrate + Nitrite N (NO2+NO3)	0.02u	mg/L	EPA 353.2	J. Cosgrave	06/12/2002 @ 0944	0.02
Antimony	0.003u	mg/L	EPA 204.2	D. Murto	07/11/2002 @ 1138	0.003
Arsenic	0.005u	mg/L	EPA 206.3	J. Mansell	06/27/2002 @ 1008	0.005
Barium	0.02u	mg/L	EPA 208.1	J. Mansell	07/09/2002 @ 1021	0.02
Beryllium	0.001u	mg/L	EPA 210.2	D. Murto	06/24/2002 @ 1125	0.001
Cadmium	0.002u	mg/L	EPA 213.1	J. Mansell	07/10/2002 @ 1338	0.002
Chromium	0.005u	mg/L	EPA 218.2	D. Murto	07/05/2002 @ 1209	0.005
Copper	0.01u	mg/L	EPA 220.1	J. Mansell	07/01/2002 @ 1231	0.01
Iron	0.02u	mg/L	EPA 236.1	J. Mansell	07/11/2002 @ 1043	0.02

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings  
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South  
Sebring, Florida 33876  
(800) 833-4022 FDOH# E85458, FDEP QAP# 880516 (863) 655-4022

For: Hardee County  
Solid Waste Department  
685 Airport Road  
Wauchula, FL 33873-  
Attn: J.R. Prestridge

08/28/2002  
Page 2 of 2

Laboratory Number: 164283

Project: HCSW  
Location: Landfill  
Sample ID: Blank  
Sampled By: E. McCarta/L. Avila on 06/10/2002 @ 1345  
Received: 06/10/2002 @ 1610

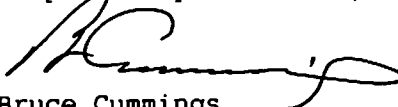
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Lead	0.001u	mg/L	EPA 239.2	D. Murto	06/25/2002 @ 1736	0.001
Mercury	0.001u	mg/L	EPA 245.1	J. Mansell	07/02/2002 @ 1112	0.001
Nickel	0.01u	mg/L	EPA 249.1	J. Mansell	07/10/2002 @ 1537	0.01
Selenium	0.005u	mg/L	EPA 270.2	D. Murto	07/09/2002 @ 1631	0.005
Silver	0.001u	mg/L	EPA 272.2	D. Murto	06/26/2002 @ 1043	0.001
Sodium	1.0u	mg/L	EPA 273.1	J. Mansell	06/19/2002 @ 1558	1.0
Thallium	0.002u	mg/L	EPA 279.2	D. Murto	06/27/2002 @ 1300	0.002
Zinc	0.002u	mg/L	EPA 289.1	J. Mansell	07/08/2002 @ 1421	0.002

u = Parameter was analyzed for but not detected

Respectfully Submitted,

  
Bruce Cummings  
Laboratory Director