

**SUMTER COUNTY
(CLOSED) LANDFILL
QUARTERLY GROUNDWATER
MONITORING REPORT
Quarter IV (November) 2010**

Prepared for:

**SUMTER COUNTY
SOLID WASTE DEPARTMENT
SUMTER COUNTY, FLORIDA**

Prepared by:

**THE COLINAS GROUP, INC.
509 N. Virginia Avenue
Winter Park, Florida 32789**

January 2011

THE COLINAS GROUP, INC.
HYDROGEOLOGISTS & ENGINEERS

January 7, 2011

Mr. John Morris, P.G.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

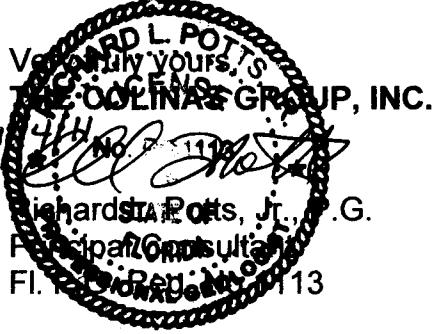
Subj: Quarter IV 2010 Groundwater Monitoring Report
Sumter County Closed Class I Landfill
Sumter County, Florida
FDEP Permit No. 22926-003-SF

Dear Mr. Morris:

On behalf of Sumter County Board of County Commissioners, The Colinas Group, Inc. (TCG) herewith submits one (1) copy of the report prepared by TCG entitled:

**Sumter County (Closed) Landfill Quarterly Groundwater Monitoring Report,
Quarter IV (November) 2010**

The report was prepared and is submitted in satisfaction of part of the requirements of the Sumter County Closed Landfill Long-Term Care Permit. If you have any questions concerning the contents of the report please do not hesitate to contact me at your convenience.



cc: Ms. Denise Warnock (Sumter County)
Mr. Jimmy Wise (Sumter County)

**SUMTER COUNTY (CLOSED) LANDFILL
GROUNDWATER MONITORING REPORT,
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2010**

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**Sumter County (Closed) Landfill
Quarterly Groundwater Monitoring Report
Quarter IV (November) 2010**

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter IV (November) 2010 sampling event at the Sumter County (Closed) Landfill near Lake Panasoffkee in Sumter County. The sampling event was completed in accordance with the quarterly water quality monitoring and reporting requirements of the closed landfill FDEP Long-Term Care Permit #22926-003-SF.

In accordance with Specific Condition 16d of the facility Long-Term Care Permit, sampling and analytical chemical parameters for this sampling event included the parameters listed in 40 CFR Part 228, Appendix I. The expanded list of analytical parameters is required by permit for the fourth quarter of each year.

SAMPLING EVENT

The Quarter IV 2010 sampling event at the Sumter County Landfill occurred on November 29 - 30, 2010. Sampling was performed by TCG in accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOP) for Field Activities. Water samples collected from the facility groundwater monitoring wells were tested for the required field parameters. Monitoring wells were purged and the groundwater discharge allowed to stabilize prior to sample collection. The results of field testing were recorded as part of the Field Reports (Attachment 3) and are listed in Table I. All samples were preserved and stored as required prior to shipment to the analytical laboratory.

Laboratory analytical services were provided by Advanced Environmental Laboratories, Inc. (AEL) in accordance with the laboratory's NELAC and FDHRS Certification No. E53076, E84589, and E82574. The original analytical reports prepared by AEL are presented in Attachment 2 to this report.

Water table depth measurements in each facility groundwater monitoring well and piezometer were recorded on November 30, 2010. These measurements were used to develop the Groundwater Contour Map shown on Figure 1 (Attachment 1) for the uppermost receiving groundwater aquifer beneath the site. Depth to water table measurements and corresponding groundwater elevations are listed in Table II.

RESULTS

Field Tested Parameters

Results of field testing completed at groundwater monitoring wells for the Quarter IV 2010 sampling event are summarized in Table I. Field tests were completed in strict accordance with the FDEP SOP requirements.

pH

The field testing results indicate pH of groundwater in the uppermost aquifer was within the FDEP secondary standard (6.5 - 8.5 pH units) at six (6) of the nine (9) groundwater monitoring wells sampled during the November 2010 event. The nearly neutral to slightly basic pH values measured are consistent across the landfill property and appear normal considering the monitoring well screen intervals at and near the top of carbonate rocks and sediments. Two wells (**MW-9A** and **MW-11**) reported pH slightly below the FDEP range. One well (**MW-4B**) produced water with a pH above the upper FDEP range at 9.17 pH units. This well has produced pH values above 8.5 since sampling of this well began in Quarter II of 2006.

Fluid Temperature

Temperature of each water sample was measured in the field immediately following discharge into the flow cell used to accept flow from the purging pump. Temperature measurements of groundwater from the nine (9) monitoring wells varied through a narrow range from a low of 24.90 C at well **MW-6A** to 27.62 C at **MW-2**.

Dissolved Oxygen

Dissolved oxygen (DO) exceeded the FDEP sampling guidance level of 20% saturation at four (4) of the nine (9) monitoring wells sampled, including the facility background monitoring well **MW-6A**. Most of these wells typically produce groundwater with dissolved oxygen levels above 20% saturation.

Specific Conductance

Specific conductance of groundwater samples collected during this sampling event are included in Table I. Specific conductance values varied through a relatively narrow range of 145 umhos/cm to 905 umhos/cm.

Turbidity

The FDEP recommends attainment of turbidity values less than 10 to 20 NTUs in groundwater samples obtained from monitoring wells. As shown in Table I, groundwater samples collected had measured turbidity values less than 20 NTUs at each of the nine (9) wells. Fluid turbidity exceeded 10 NTUs at two (2) wells (**MW-9A** and **MW-11**).

Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the November 2010 sample set is presented in Table III. As shown, five (5) parameters were reported for certain monitoring wells at concentrations that exceed applicable regulatory levels. Exceeded parameters were aluminum, iron, manganese, nitrate nitrogen and total dissolved solids (TDS).

Aluminum

Aluminum was measured in water samples from monitoring wells **MW-4, MW-4B, MW-9A, MW-10** and **MW-11** at concentrations above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l. The highest aluminum concentration is reported for **MW-11** at 670 ug/l.

Iron

Dissolved iron was detected in two (2) monitoring wells at concentrations above the FSDWS MCL of 300 ug/l. Iron was reported at 830 ug/l for well **MW-9A** and 590 ug/l for **MW-10**. Iron was detected below 300 ug/l at three (3) monitoring wells and was not detected above the laboratory method detection limit at four (4) wells.

Manganese

Manganese was measured at a concentration above the FSDWS MCL of 50 ug/l in monitoring well **MW-9A** at 87 ug/l. Manganese was reported in each of the remaining monitoring wells at concentrations less than 50 ug/l. Manganese was detected in the laboratory's method blank for each analysis indicating contamination in the laboratory, although apparently at very low concentrations.

Nitrate Nitrogen

Nitrate nitrogen was measured above the Florida Primary Drinking Water Standards (FPDWS) MCL of 10 mg/l in groundwater samples from monitoring well **MW-4A** (12 mg/l). While not exceeding the FPDWS MCL, groundwater from the facility background monitoring well (**MW-6A**) and the other detection wells produced nitrate levels considered to be elevated above typical naturally-occurring concentrations.

Total Dissolved Solids (TDS)

TDS concentration was reported slightly above the 500 mg/l FSDWS MCL at monitoring well **MW-9A** at 520 mg/l. Past analytical data from the monitoring network indicates that dissolved calcium carbonate accounts for a large part of the TDS load in groundwater at the landfill.

No other exceedance of a parameter regulatory concentration level was reported in the laboratory analytical results for samples from groundwater monitoring wells at the Sumter County Closed Landfill.

Other Significant Detected Parameters

Chloride concentrations reported for seven(7) of the nine (9) monitoring wells, including the facility background monitoring well **MW-6A**, appear consistent between individual wells and typical for natural shallow groundwaters in Florida. Chloride concentrations at detection wells **MW-4**, **MW-4A** and **MW-9A** (21 mg/l - 26 mg/l) appear slightly elevated as compared to the other wells. The SDWS MCL for chloride in groundwater is 250 mg/l.

Sodium also appears slightly higher at monitoring wells **MW-4**, **MW-4A** and **MW-9A** (20 mg/l - 43 mg/l) as compared to background and other detection wells

40 CFR Part 228 Appendix I Volatiles

Annual analyses for 40 CFR Part 228 Appendix I parameters were completed for this sampling event. As indicated on the attached laboratory reports of analyses from ENCO, other than **acetone** and the THM compound **chloromethane**, no Appendix I volatile organic compounds were detected above the laboratory method detection limits in groundwater samples from any of the facility groundwater monitoring wells.

Chloromethane detections at three (3) monitoring wells (0.68 ug/l - 0.76 ug/l) are likely the result of either contamination of the distilled water used to decontaminate sampling equipment or artifacts from laboratory sample bottle cleaning and preparation. Chloromethane, a common disinfection by-product, is reported in the sampling event equipment blank.

Acetone, detected in wells **MW-10** (3.5 ug/l) and **MW-11** (51 ug/l), was well below the Chapter 62-777, F.A.C. Groundwater Cleanup Target Level of 6,300 ug/l.

SUMMARY

Chemical characteristics of groundwater monitored at the Sumter County Landfill are reported for the Quarter IV (November) 2010 sampling event. Exceedances of specific constituent regulatory maximum concentration levels (MCLs) are reported at specific monitoring wells for aluminum, iron, manganese, nitrate nitrogen, and total dissolved solids (TDS).

Elevated **dissolved oxygen** (DO) levels were measured in four of the nine groundwater monitoring wells, including the facility background monitoring well. These wells routinely produce groundwater with elevated DO levels.

Aluminum was reported by the laboratory at concentrations above the FSDWS MCL (200 ug/l) at wells **MW-4**, **MW-4B**, **MW-9A**, **MW-10** and **MW-11**. Aluminum has routinely been reported above the MCL in monitoring wells at the Sumter County closed landfill, including background well **MW-6A**. The most likely source of dissolved aluminum in groundwater is naturally-occurring aluminum-silicate clay minerals occurring near the top of rock throughout the landfill property.

Nitrate nitrogen dissolved in groundwater was reported just above the FPDWS MCL of 10 mg/l at monitoring well **MW-4A** (12 mg/l). Elevated concentrations of nitrate nitrogen below the MCL were reported at seven other landfill monitoring wells including background well **MW-6A** (6.4 mg/l). Available site data suggest that nitrate exceedances at **MW-4A** are likely related to former discharges from nearby septic tank systems. Elevated nitrate levels are noted in groundwater flowing beneath the landfill property from agricultural areas to the east.

Concentrations of **iron** slightly above the FSDWS MCL (300 ug/l) were reported for monitoring wells **MW-9A** and **MW-10**. **Manganese** was reported above the FSDWS MCL (50 ug/l) at **MW-9A**. Both iron and manganese occur naturally in sediments and carbonate rocks penetrated by the monitoring wells.

TDS concentration was reported slightly above the FSDWS MCL of 500 mg/l at monitoring well **MW-9A**. Historical analytical data for well **MW-9A** indicates that dissolved calcium carbonate (limestone) accounts for a large part of the TDS load at this well.

Annual sampling and analysis for volatile organic compounds listed in 40 CFR, Part 228 Appendix I was completed this quarter. Trace concentrations of **chloromethane** were detected by the laboratory at three monitoring wells. Detected in the field equipment blank, chloromethane detections appear to be sampling artifacts. **Acetone** was detected at two wells at concentrations well below regulatory criteria.

* * * * *

TABLE I
FIELD PARAMETER RESULTS SUMMARY
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2010

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	27.62	4.61	6.91	262	0.73
MW-4	26.78	0.54	7.23	609	6.14
MW-4A	26.86	0.20	7.05	683	8.32
MW-4B	27.11	5.32	9.17	145	3.53
MW-6A	24.90	7.05	7.76	259	9.56
MW-8	24.55	3.77	7.22	377	7.24
MW-9A	25.26	0.32	6.42	905	10.69
MW-10	25.32	1.42	6.93	542	7.81
MW-11	25.82	0.74	6.46	550	14.8

Notes: Bold lettering indicates:
 Exceedance of FDEP 20% saturation dissolved oxygen limit
 Exceedance of pH range (6.5 - 8.5)
 Exceedance of FDEP-recommended turbidity (20 NTU)

TABLE II
QUARTER IV 2010
SUMMARY OF GROUNDWATER LEVELS
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
(November 30, 2010)

Well No.	Measuring Point Elevation ^{1/} (ft. +NGVD)	Depth to Water (ft. - MP) ^{2/}	Groundwater Elevation (ft. +NGVD)
MW-1	70.17	27.26	42.91
MW-2	69.13	25.98	43.15
MW-2A	72.11	29.00	43.11
MW-4	70.36	27.39	42.97
MW-4A	75.73	32.57	43.16
MW-4B	73.83	30.65	43.18
MW-6A	77.54	34.16	43.38
MW-7	73.14	29.98	43.16
MW-8	69.26	24.89	44.37
MW-9	71.95	29.60	42.35
MW-9A	74.26 ^{3/}	32.05	42.21
MW-10	68.28	25.02	43.26
MW-11	70.21	27.14	43.07

Notes: 1/ Measuring Point is top of PVC well casing.

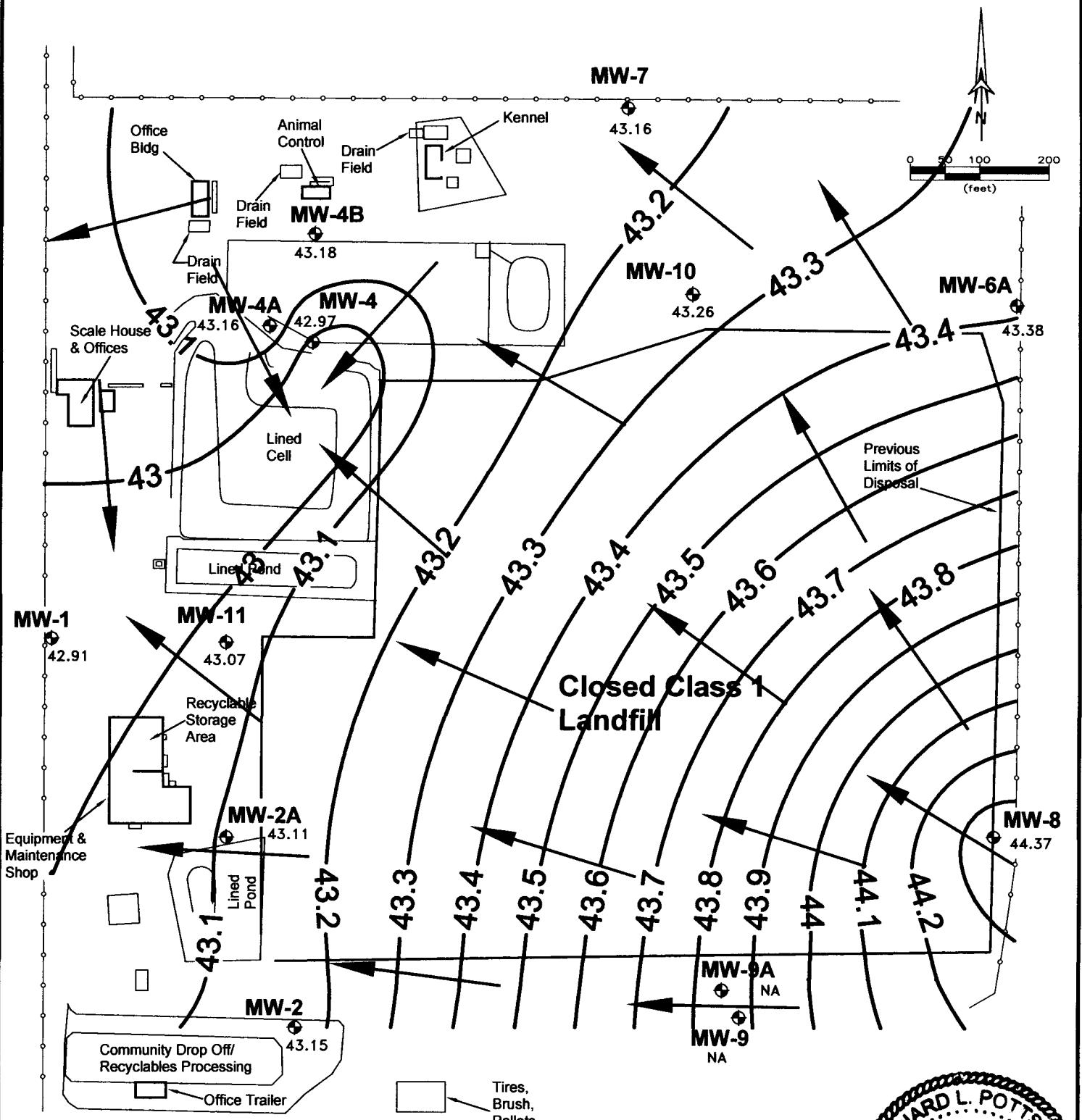
2/ Water levels recorded on November 30, 2010.

3/ Wellhead recently repaired, TOC elevation unreliable.

TABLE III
SUMMARY OF LABORATORY RESULTS
SUMTER COUNTY (CLOSED) LANDFILL
QUARTER IV (November) 2010

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	MCL
Ammonia	mg/l	0.048	0.053	0.053	0.28	0.049	0.059	0.54	0.081	0.061	2.8
Aluminum	ug/l	BDL	230	110	310	78	BDL	280	400	670	200
Antimony	ug/l	0.37	0.28	0.086	0.11	0.078	0.076	0.10	0.25	0.57	6
Arsenic	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.67	BDL	BDL	10
Barium	ug/l	19	9.8	14	3.9	2.9	4.5	13	14	12	2,000
Beryllium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.30	4
Cadmium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	1.8	BDL	2.5	5
Cobalt	ug/l	BDL	1.1	0.070	BDL	BDL	BDL	19	BDL	0.64	420
Copper	ug/l	0.63	1.6	0.68	0.24	0.18	0.24	2.5	0.52	2.2	1,000
Chloride	mg/l	6.2	21	26	5.2	8.9	9.5	22	7.9	4.1	250
Chromium	ug/l	1.6(v)	2.6(v)	1.9(v)	4.8(v)	8.7(v)	4.2(v)	2.9(v)	5.7(v)	8.9(v)	100
Fluoride	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4
Gross Alpha	pCi/l	1.1±0.8	3.9±2.0	2.7±0.8	2.2±1.0	2.0±1.2	<2.3±1.5	6.7±1.4	11.4±1.3	14.3±3.2	15
Iron	ug/l	BDL	44	BDL	BDL	BDL	170	830	590	160	300
Lead	ug/l	BDL	0.24	BDL	BDL	BDL	BDL	BDL	0.32	1.0	15
Manganese	ug/l	1.2(v)	9.6(v)	7.4(v)	0.44(v)	1.3(v)	4.2(v)	87(v)	23(v)	5.9(v)	50
Mercury	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.71	0.018	0.12	2
Nickel	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	5.3	BDL	BDL	100
Nitrate, as N	mg/l	2.4	7.6	12	3.9	6.4	2.2	0.32	2.2	3.7	10
pH	s.u.	6.91	7.23	7.05	9.17	7.76	7.22	6.42	6.93	6.46	6.5-8.5
Radium 226	pCi/l	0.3±0.2	0.9±0.2	1.1±0.2	0.3±0.1	0.3±0.1	0.7±0.2	2.0±0.2	1.3±0.2	2.4±0.2	—
Radium 228	pCi/l	<0.9±0.5	<0.8±0.5	<0.8±0.6	<0.8±0.5	<0.8±0.5	<0.8±0.5	1.1±0.6	<0.9±0.6	0.9±0.6	—
Selenium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Silver	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.080	100
Sodium	mg/l	3.6	43	26	9.7	3.3	5.7	20	7.2	9.5	160
TDS	mg/l	150	350	390	90	170	220	520	320	320	500
Thallium	ug/l	BDL	BDL	0.19	BDL	BDL	BDL	0.14	BDL	0.10	2
Vanadium	ug/l	0.88	12.0	6.3	15	8.4	9.4	3.1	10	13	49
Zinc	ug/l	4.8	6.3	6.0	4.1	4.6	7.4	11	6.9	8.8	5,000

Notes: 1). BDL means below laboratory method detection limit
 2). **Bold lettering** indicates result exceeds MCL/Guidance concentration
 3). (v) indicates constituent found in laboratory method blank

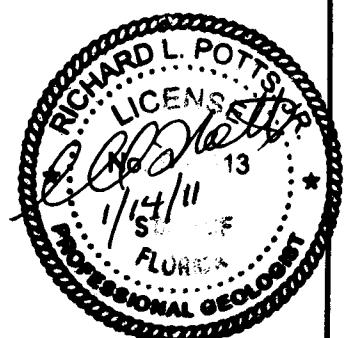
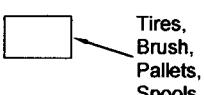


LEGEND

MW-2 Monitor Well Location
43.15 Groundwater Elevation (ft, NGVD, 11/30/10)

43.3 Groundwater Contour (Potentiometric Surface, 11/30/10)

Estimated Groundwater Flow Direction (11/30/10)





**Advanced
Environmental Laboratories, Inc.**

Advanced Environmental Laboratories, Inc
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone: (407)937-1594
Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071003**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -2**

Date Collected: 11/30/10 12:35

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance

Analytical Method: DISRES

Conductance	262	umhos/cm		1			11/30/2010 12:35	A^
Dissolved Oxygen	4.61	mg/L		1			11/30/2010 12:35	A^
Groundwater Elevation	43.15	feet		1			11/30/2010 12:35	A^
Temperature	27.62	°C		1			11/30/2010 12:35	A^
Turbidity	0.73	NTU		1			11/30/2010 12:35	A^
pH	6.91	pH unit		1			11/30/2010 12:35	A^

METALS

Analysis Desc: SW846 6010B

Preparation Method: SW-846 3010A

Analysis,Water

Analytical Method: SW-846 6010

Aluminum	61	ug/L	U	1	200	61	12/6/2010 18:31	J
Barium	0.019	mg/L		1	0.0020	0.00028	12/6/2010 18:31	J
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 18:31	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 18:31	J
Chromium	1.6	ug/L	I,V	1	4.0	0.50	12/6/2010 18:31	J
Cobalt	0.00060	mg/L	U	1	0.0040	0.00060	12/6/2010 18:31	J
Iron	38	ug/L	U	1	200	38	12/6/2010 18:31	J
Manganese	1.2	ug/L	V	1	1.0	0.24	12/6/2010 18:31	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:31	J
Sodium	3.6	mg/L		1	0.20	0.026	12/6/2010 18:31	J
Vanadium	0.00088	mg/L	I	1	0.0015	0.00018	12/6/2010 18:31	J
Zinc	0.0048	mg/L	I	1	0.010	0.0020	12/6/2010 18:31	J

Analysis Desc: SW846 6020B

Preparation Method: SW-846 3010A

Analysis,Total

Analytical Method: SW-846 6020

Antimony	0.37	ug/L	I	1	0.60	0.073	12/7/2010 19:29	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 04:52	J
Copper	0.63	ug/L	I	1	0.70	0.10	12/4/2010 04:52	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/4/2010 04:52	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 04:52	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 19:29	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/4/2010 04:52	J

Analysis Desc: SW846 7470A

Preparation Method: SW-846 7470A

Analysis,Water

Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	12/7/2010 13:23	J
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Report ID: 147963 - 3201138

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CERTIFICATE OF ANALYSIS

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**Advanced
Environmental Laboratories, Inc.**

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071003**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -2**

Date Collected: 11/30/10 12:35

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
	Preparation Method: SW-846 8011							
Analytical Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 17:59	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 17:59	J
Tetrachloro-m-xylene (S)	98	%		1	40.3-190		12/8/2010 17:59	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
	Preparation Method: SW-846 5030B							
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 19:04	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 19:04	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 19:04	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 19:04	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 19:04	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:04	J
1,2,3-Trichloropropene	0.66	ug/L	U	1	1.0	0.66	12/2/2010 19:04	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 19:04	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 19:04	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 19:04	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 19:04	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 19:04	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 19:04	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 19:04	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 19:04	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/2/2010 19:04	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 19:04	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:04	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 19:04	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 19:04	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 19:04	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:04	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 19:04	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 19:04	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 19:04	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 19:04	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 19:04	J
Chloromethane	0.60	ug/L	U	1	1.0	0.60	12/2/2010 19:04	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:04	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071003**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -2**

Date Collected: 11/30/10 12:35

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted		Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 19:04	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 19:04	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 19:04	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 19:04	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 19:04	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 19:04	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 19:04	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 19:04	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 19:04	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 19:04	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 19:04	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 19:04	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 19:04	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 19:04	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 19:04	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 19:04	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 19:04	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 19:04	J
1,2-Dichloroethane-d4 (S)	99	%		1	80-120		12/2/2010 19:04	
Toluene-d8 (S)	95	%		1	88-110		12/2/2010 19:04	
Bromofluorobenzene (S)	102	%		1	86-115		12/2/2010 19:04	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	6.2	mg/L	I	1	10	0.81	12/1/2010 12:29	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 12:29	A
Nitrate	2.4	mg/L		1	0.20	0.043	12/1/2010 12:29	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.048	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	150	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071004**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4**

Date Collected: 11/30/10 11:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 18:23	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 18:23	J
Tetrachloro-m-xylene (S)	98	%		1	40.3-190		12/8/2010 18:23	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 19:49	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 19:49	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 19:49	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 19:49	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 19:49	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:49	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 19:49	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 19:49	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 19:49	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 19:49	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 19:49	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 19:49	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 19:49	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 19:49	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 19:49	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/2/2010 19:49	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 19:49	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:49	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 19:49	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 19:49	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 19:49	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:49	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 19:49	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 19:49	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 19:49	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 19:49	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 19:49	J
Chloromethane	0.60	ug/L	U	1	1.0	0.60	12/2/2010 19:49	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 19:49	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071004**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4**

Date Collected: 11/30/10 11:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	609	umhos/cm		1			11/30/2010 11:30	A^
Dissolved Oxygen	0.54	mg/L		1			11/30/2010 11:30	A^
Groundwater Elevation	42.97	feet		1			11/30/2010 11:30	A^
Temperature	26.78	°C		1			11/30/2010 11:30	A^
Turbidity	6.14	NTU		1			11/30/2010 11:30	A^
pH	7.23	pH unit		1			11/30/2010 11:30	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis,Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	230	ug/L		1	200	61	12/6/2010 18:36	J
Barium	0.0098	mg/L		1	0.0020	0.00028	12/6/2010 18:36	J
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 18:36	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 18:36	J
Chromium	2.6	ug/L	I,V	1	4.0	0.50	12/6/2010 18:36	J
Cobalt	0.0011	mg/L	I	1	0.0040	0.00060	12/6/2010 18:36	J
Iron	44	ug/L	I	1	200	38	12/6/2010 18:36	J
Manganese	9.6	ug/L	V	1	1.0	0.24	12/6/2010 18:36	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:36	J
Sodium	43	mg/L		1	0.20	0.026	12/6/2010 18:36	J
Vanadium	0.012	mg/L		1	0.0015	0.00018	12/6/2010 18:36	J
Zinc	0.0063	mg/L	I	1	0.010	0.0020	12/6/2010 18:36	J
Analysis Desc: SW846 6020B								
Analysis,Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	0.28	ug/L	I	1	0.60	0.073	12/7/2010 19:38	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 05:01	J
Copper	1.6	ug/L		1	0.70	0.10	12/4/2010 05:01	J
Lead	0.24	ug/L	I	1	0.70	0.076	12/4/2010 05:01	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 05:01	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 19:38	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/4/2010 05:01	J
Analysis Desc: SW846 7470A								
Analysis,Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.014	ug/L	U	1	0.10	0.014	12/7/2010 13:25	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071004**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4**

Date Collected: 11/30/10 11:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted		Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 19:49	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 19:49	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 19:49	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 19:49	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 19:49	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 19:49	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 19:49	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 19:49	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 19:49	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 19:49	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 19:49	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 19:49	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 19:49	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 19:49	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 19:49	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 19:49	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 19:49	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 19:49	J
1,2-Dichloroethane-d4 (S)	98	%		1	80-120		12/2/2010 19:49	
Toluene-d8 (S)	92	%		1	88-110		12/2/2010 19:49	
Bromofluorobenzene (S)	102	%		1	86-115		12/2/2010 19:49	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	21	mg/L		1	10	0.81	12/1/2010 12:46	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 12:46	A
Nitrate	7.6	mg/L		1	0.20	0.043	12/1/2010 12:46	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.053	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	350	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071005**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4A**

Date Collected: 11/29/10 16:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance

Analytical Method: DISRES

Conductance	683	umhos/cm		1			11/29/2010 16:00	A^
Dissolved Oxygen	0.2	mg/L		1			11/29/2010 16:00	A^
Groundwater Elevation	43.15	feet		1			11/29/2010 16:00	A^
Temperature	26.86	°C		1			11/29/2010 16:00	A^
Turbidity	8.32	NTU		1			11/29/2010 16:00	A^
pH	7.05	pH unit		1			11/29/2010 16:00	A^

METALS

Analysis Desc: SW846 6010B

Preparation Method: SW-846 3010A

Analysis,Water

Analytical Method: SW-846 6010

Aluminum	110	ug/L	I	1	200	61	12/6/2010 18:41	J
Barium	0.014	mg/L		1	0.0020	0.00028	12/6/2010 18:41	J
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 18:41	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 18:41	J
Chromium	1.9	ug/L	I,V	1	4.0	0.50	12/6/2010 18:41	J
Cobalt	0.00070	mg/L	I	1	0.0040	0.00060	12/6/2010 18:41	J
Iron	38	ug/L	U	1	200	38	12/6/2010 18:41	J
Manganese	7.4	ug/L	V	1	1.0	0.24	12/6/2010 18:41	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:41	J
Sodium	26	mg/L		1	0.20	0.026	12/6/2010 18:41	J
Vanadium	0.0063	mg/L		1	0.0015	0.00018	12/6/2010 18:41	J
Zinc	0.0060	mg/L	I	1	0.010	0.0020	12/6/2010 18:41	J

Analysis Desc: SW846 6020B

Preparation Method: SW-846 3010A

Analysis,Total

Analytical Method: SW-846 6020

Antimony	0.086	ug/L	I	1	0.60	0.073	12/7/2010 19:48	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 05:10	J
Copper	0.68	ug/L	I	1	0.70	0.10	12/4/2010 05:10	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/4/2010 05:10	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 05:10	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 19:48	J
Thallium	0.19	ug/L	I	1	0.20	0.067	12/4/2010 05:10	J

Analysis Desc: SW846 7470A

Preparation Method: SW-846 7470A

Analysis,Water

Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	12/7/2010 13:26	J
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID:	A1007071005	Date Received:	11/30/10 15:20	Matrix:	Water
Sample ID:	MW -4A	Date Collected:	11/29/10 16:00		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 18:47	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 18:47	J
Tetrachloro-m-xylene (S)	100	%		1	40.3-190		12/8/2010 18:47	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 20:35	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 20:35	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 20:35	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 20:35	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 20:35	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 20:35	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 20:35	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 20:35	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 20:35	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 20:35	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 20:35	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 20:35	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 20:35	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 20:35	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 20:35	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/2/2010 20:35	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 20:35	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 20:35	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 20:35	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 20:35	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 20:35	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 20:35	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 20:35	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 20:35	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 20:35	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 20:35	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 20:35	J
Chloromethane	0.68	ug/L	I	1	1.0	0.60	12/2/2010 20:35	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 20:35	J

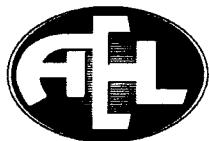
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071005**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4A**

Date Collected: 11/29/10 16:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted		Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 20:35	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 20:35	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 20:35	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 20:35	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 20:35	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 20:35	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 20:35	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 20:35	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 20:35	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 20:35	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 20:35	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 20:35	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 20:35	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 20:35	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 20:35	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 20:35	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 20:35	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 20:35	J
1,2-Dichloroethane-d4 (S)	99	%		1	80-120		12/2/2010 20:35	
Toluene-d8 (S)	93	%		1	88-110		12/2/2010 20:35	
Bromofluorobenzene (S)	106	%		1	86-115		12/2/2010 20:35	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	26	mg/L		1	10	0.81	12/1/2010 11:19	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 11:19	A
Nitrate	12	mg/L		2	0.40	0.085	12/1/2010 12:12	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.053	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	390	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071006**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4B**

Date Collected: 11/29/10 15:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	145	umhos/cm		1			11/29/2010 15:10	A^
Dissolved Oxygen	5.32	mg/L		1			11/29/2010 15:10	A^
Groundwater Elevation	43.18	feet		1			11/29/2010 15:10	A^
Temperature	27.11	°C		1			11/29/2010 15:10	A^
Turbidity	3.53	NTU		1			11/29/2010 15:10	A^
pH	9.17	pH unit		1			11/29/2010 15:10	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis,Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	310	ug/L		1	200	61	12/6/2010 18:46	J
Barium	0.0039	mg/L		1	0.0020	0.00028	12/6/2010 18:46	J
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 18:46	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 18:46	J
Chromium	4.8	ug/L	V	1	4.0	0.50	12/6/2010 18:46	J
Cobalt	0.00060	mg/L	U	1	0.0040	0.00060	12/6/2010 18:46	J
Iron	38	ug/L	U	1	200	38	12/6/2010 18:46	J
Manganese	0.44	ug/L	I,V	1	1.0	0.24	12/6/2010 18:46	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:46	J
Sodium	9.7	mg/L		1	0.20	0.026	12/6/2010 18:46	J
Vanadium	0.015	mg/L		1	0.0015	0.00018	12/6/2010 18:46	J
Zinc	0.0041	mg/L	I	1	0.010	0.0020	12/6/2010 18:46	J
Analysis Desc: SW846 6020B								
Analysis,Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	0.11	ug/L	I	1	0.60	0.073	12/7/2010 19:57	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 05:20	J
Copper	0.24	ug/L	I	1	0.70	0.10	12/4/2010 05:20	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/4/2010 05:20	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 05:20	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 19:57	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/4/2010 05:20	J
Analysis Desc: SW846 7470A								
Analysis,Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.014	ug/L	U	1	0.10	0.014	12/7/2010 13:32	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071006**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4B**

Date Collected: 11/29/10 15:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 19:10	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 19:10	J
Tetrachloro-m-xylene (S)	99	%		1	40.3-190		12/8/2010 19:10	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 23:36	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 23:36	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 23:36	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 23:36	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 23:36	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 23:36	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 23:36	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 23:36	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 23:36	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 23:36	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 23:36	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 23:36	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 23:36	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 23:36	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 23:36	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/2/2010 23:36	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 23:36	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 23:36	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 23:36	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 23:36	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 23:36	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 23:36	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 23:36	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 23:36	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 23:36	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 23:36	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 23:36	J
Chloromethane	0.60	ug/L	U	1	1.0	0.60	12/2/2010 23:36	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 23:36	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071006**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -4B**

Date Collected: 11/29/10 15:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 23:36	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 23:36	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 23:36	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 23:36	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 23:36	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 23:36	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 23:36	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 23:36	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 23:36	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 23:36	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 23:36	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 23:36	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 23:36	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 23:36	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 23:36	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 23:36	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 23:36	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 23:36	J
1,2-Dichloroethane-d4 (S)	98	%		1	80-120		12/2/2010 23:36	
Toluene-d8 (S)	93	%		1	88-110		12/2/2010 23:36	
Bromofluorobenzene (S)	101	%		1	86-115		12/2/2010 23:36	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	5.2	mg/L	I	1	10	0.81	12/1/2010 11:02	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 11:02	A
Nitrate	3.9	mg/L		1	0.20	0.043	12/1/2010 11:02	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.28	mg/L		1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	90	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID:	A1007071007	Date Received:	11/30/10 15:20	Matrix:	Water
Sample ID:	MW -6A	Date Collected:	11/30/10 13:55		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	259	umhos/cm		1			11/30/2010 13:55	A^
Dissolved Oxygen	7.05	mg/L		1			11/30/2010 13:55	A^
Groundwater Elevation	43.38	feet		1			11/30/2010 13:55	A^
Temperature	24.9	°C		1			11/30/2010 13:55	A^
Turbidity	9.56	NTU		1			11/30/2010 13:55	A^
pH	7.76	pH unit		1			11/30/2010 13:55	A^

METALS

Analysis Desc: SW846 6010B	Preparation Method: SW-846 3010A
Analysis, Water	Analytical Method: SW-846 6010

Aluminum	78	ug/L	I	1	200	61	12/6/2010 18:50	J
Barium	0.0029	mg/L		1	0.0020	0.00028	12/6/2010 18:50	J
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 18:50	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 18:50	J
Chromium	8.7	ug/L	V	1	4.0	0.50	12/6/2010 18:50	J
Cobalt	0.00060	mg/L	U	1	0.0040	0.00060	12/6/2010 18:50	J
Iron	38	ug/L	U	1	200	38	12/6/2010 18:50	J
Manganese	1.3	ug/L	V	1	1.0	0.24	12/6/2010 18:50	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:50	J
Sodium	3.3	mg/L		1	0.20	0.026	12/6/2010 18:50	J
Vanadium	0.0084	mg/L		1	0.0015	0.00018	12/6/2010 18:50	J
Zinc	0.0046	mg/L	I	1	0.010	0.0020	12/6/2010 18:50	J

Analysis Desc: SW846 6020B	Preparation Method: SW-846 3010A
Analysis, Total	Analytical Method: SW-846 6020

Antimony	0.078	ug/L	I	1	0.60	0.073	12/7/2010 20:06	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 05:29	J
Copper	0.18	ug/L	I	1	0.70	0.10	12/4/2010 05:29	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/4/2010 05:29	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 05:29	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 20:06	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/4/2010 05:29	J

Analysis Desc: SW846 7470A	Preparation Method: SW-846 7470A
Analysis, Water	Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	12/7/2010 13:33	J
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID:	A1007071007	Date Received:	11/30/10 15:20	Matrix:	Water
Sample ID:	MW -6A	Date Collected:	11/30/10 13:55		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 19:36	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 19:36	J
Tetrachloro-m-xylene (S)	101	%		1	40.3-190		12/8/2010 19:36	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/3/2010 00:21	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/3/2010 00:21	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/3/2010 00:21	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/3/2010 00:21	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/3/2010 00:21	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/3/2010 00:21	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/3/2010 00:21	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/3/2010 00:21	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/3/2010 00:21	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/3/2010 00:21	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/3/2010 00:21	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/3/2010 00:21	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/3/2010 00:21	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/3/2010 00:21	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/3/2010 00:21	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/3/2010 00:21	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/3/2010 00:21	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/3/2010 00:21	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/3/2010 00:21	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/3/2010 00:21	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/3/2010 00:21	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/3/2010 00:21	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/3/2010 00:21	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/3/2010 00:21	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/3/2010 00:21	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/3/2010 00:21	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/3/2010 00:21	J
Chloromethane	0.60	ug/L	U	1	1.0	0.60	12/3/2010 00:21	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/3/2010 00:21	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071007**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -6A**

Date Collected: 11/30/10 13:55

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/3/2010 00:21	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/3/2010 00:21	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/3/2010 00:21	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/3/2010 00:21	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/3/2010 00:21	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/3/2010 00:21	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/3/2010 00:21	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/3/2010 00:21	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/3/2010 00:21	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/3/2010 00:21	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/3/2010 00:21	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/3/2010 00:21	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/3/2010 00:21	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/3/2010 00:21	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/3/2010 00:21	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/3/2010 00:21	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/3/2010 00:21	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/3/2010 00:21	J
1,2-Dichloroethane-d4 (S)	101	%		1	80-120		12/3/2010 00:21	
Toluene-d8 (S)	96	%		1	88-110		12/3/2010 00:21	
Bromofluorobenzene (S)	99	%		1	86-115		12/3/2010 00:21	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	8.9	mg/L	I	1	10	0.81	12/1/2010 13:04	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 13:04	A
Nitrate	6.4	mg/L		1	0.20	0.043	12/1/2010 13:04	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.049	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	170	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID:	A1007071008	Date Received:	11/30/10 15:20	Matrix:	Water
Sample ID:	MW -8	Date Collected:	11/29/10 13:05		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance		Analytical Method: DISRES						
Conductance	377	umhos/cm	1				11/29/2010 13:05	A^
Dissolved Oxygen	3.77	mg/L	1				11/29/2010 13:05	A^
Groundwater Elevation	44.39	feet	1				11/29/2010 13:05	A^
Temperature	24.55	°C	1				11/29/2010 13:05	A^
Turbidity	7.24	NTU	1				11/29/2010 13:05	A^
pH	7.22	pH unit	1				11/29/2010 13:05	A^

METALS

Analysis Desc: SW846 6010B		Preparation Method: SW-846 3010A						
Analysis, Water		Analytical Method: SW-846 6010						
Aluminum	61	ug/L	U	1	200	61	12/6/2010 18:55	J
Barium	0.0045	mg/L		1	0.0020	0.00028	12/6/2010 18:55	J
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 18:55	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 18:55	J
Chromium	4.2	ug/L	V	1	4.0	0.50	12/6/2010 18:55	J
Cobalt	0.00060	mg/L	U	1	0.0040	0.00060	12/6/2010 18:55	J
Iron	170	ug/L	I	1	200	38	12/6/2010 18:55	J
Manganese	4.2	ug/L	V	1	1.0	0.24	12/6/2010 18:55	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:55	J
Sodium	5.7	mg/L		1	0.20	0.026	12/6/2010 18:55	J
Vanadium	0.0094	mg/L		1	0.0015	0.00018	12/6/2010 18:55	J
Zinc	0.0074	mg/L	I	1	0.010	0.0020	12/6/2010 18:55	J

Analysis Desc: SW846 6020B		Preparation Method: SW-846 3010A						
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Analysis, Total		Analytical Method: SW-846 6020						
Antimony	0.076	ug/L	I	1	0.60	0.073	12/7/2010 20:15	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 05:39	J
Copper	0.24	ug/L	I	1	0.70	0.10	12/4/2010 05:39	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/4/2010 05:39	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 05:39	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 20:15	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/4/2010 05:39	J

Analysis Desc: SW846 7470A		Preparation Method: SW-846 7470A						
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Analysis, Water		Analytical Method: SW-846 7470A						
Mercury	0.014	ug/L	U	1	0.10	0.014	12/7/2010 13:35	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071008**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -8**

Date Collected: 11/29/10 13:05

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 20:01	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 20:01	J
Tetrachloro-m-xylene (S)	99	%		1	40.3-190		12/8/2010 20:01	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/3/2010 01:06	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/3/2010 01:06	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/3/2010 01:06	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/3/2010 01:06	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/3/2010 01:06	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:06	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/3/2010 01:06	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/3/2010 01:06	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/3/2010 01:06	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/3/2010 01:06	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/3/2010 01:06	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/3/2010 01:06	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/3/2010 01:06	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/3/2010 01:06	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/3/2010 01:06	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/3/2010 01:06	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/3/2010 01:06	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:06	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/3/2010 01:06	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/3/2010 01:06	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/3/2010 01:06	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:06	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/3/2010 01:06	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/3/2010 01:06	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/3/2010 01:06	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/3/2010 01:06	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/3/2010 01:06	J
Chloromethane	0.75	ug/L	I	1	1.0	0.60	12/3/2010 01:06	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:06	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071008**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -8**

Date Collected: 11/29/10 13:05

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/3/2010 01:06	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/3/2010 01:06	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/3/2010 01:06	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/3/2010 01:06	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/3/2010 01:06	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/3/2010 01:06	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/3/2010 01:06	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/3/2010 01:06	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/3/2010 01:06	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/3/2010 01:06	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/3/2010 01:06	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/3/2010 01:06	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/3/2010 01:06	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/3/2010 01:06	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/3/2010 01:06	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/3/2010 01:06	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/3/2010 01:06	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/3/2010 01:06	J
1,2-Dichloroethane-d4 (S)	99	%		1	80-120		12/3/2010 01:06	
Toluene-d8 (S)	94	%		1	88-110		12/3/2010 01:06	
Bromofluorobenzene (S)	101	%		1	86-115		12/3/2010 01:06	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	9.5	mg/L	I	1	10	0.81	12/1/2010 10:27	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 10:27	A
Nitrate	2.2	mg/L		1	0.20	0.043	12/1/2010 10:27	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.059	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	220	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID:	A1007071009	Date Received:	11/30/10 15:20	Matrix:	Water
Sample ID:	MW -9A	Date Collected:	11/30/10 10:30		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance Analytical Method: DISRES

Conductance	905	umhos/cm	1				11/30/2010 10:30	A^
Dissolved Oxygen	0.32	mg/L	1				11/30/2010 10:30	A^
Groundwater Elevation	42.21	feet	1				11/30/2010 10:30	A^
Temperature	25.26	°C	1				11/30/2010 10:30	A^
Turbidity	10.69	NTU	1				11/30/2010 10:30	A^
pH	6.42	pH unit	1				11/30/2010 10:30	A^

METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	280	ug/L	1	200	61	12/6/2010 19:00	J	
Barium	0.013	mg/L	1	0.0020	0.00028	12/6/2010 19:00	J	
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 19:00	J
Cadmium	1.8	ug/L	1	0.60	0.32	12/6/2010 19:00	J	
Chromium	2.9	ug/L	I,V	1	4.0	0.50	12/6/2010 19:00	J
Cobalt	0.019	mg/L	1	0.0040	0.00060	12/6/2010 19:00	J	
Iron	830	ug/L	1	200	38	12/6/2010 19:00	J	
Manganese	87	ug/L	V	1	1.0	0.24	12/6/2010 19:00	J
Nickel	0.0053	mg/L	I	1	0.0065	0.0011	12/6/2010 19:00	J
Sodium	20	mg/L	1	0.20	0.026	12/6/2010 19:00	J	
Vanadium	0.0031	mg/L	1	0.0015	0.00018	12/6/2010 19:00	J	
Zinc	0.011	mg/L	1	0.010	0.0020	12/6/2010 19:00	J	

Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	0.10	ug/L	I	1	0.60	0.073	12/7/2010 20:25	J
Arsenic	0.67	ug/L	I	1	1.0	0.36	12/4/2010 05:48	J
Copper	2.5	ug/L	1		0.70	0.10	12/4/2010 05:48	J
Lead	0.38	ug/L	I	1	0.70	0.076	12/4/2010 05:48	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 05:48	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 20:25	J
Thallium	0.14	ug/L	I	1	0.20	0.067	12/4/2010 05:48	J

Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A

Analysis, Water

Analytical Method: SW-846 7470A

Mercury	0.71	ug/L	1		0.10	0.014	12/7/2010 13:37	J
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071009**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -9A**

Date Collected: 11/30/10 10:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMICVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 20:28	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 20:28	J
Tetrachloro-m-xylene (S)	98	%		1	40.3-190		12/8/2010 20:28	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/3/2010 01:51	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/3/2010 01:51	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/3/2010 01:51	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/3/2010 01:51	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/3/2010 01:51	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:51	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/3/2010 01:51	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/3/2010 01:51	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/3/2010 01:51	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/3/2010 01:51	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/3/2010 01:51	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/3/2010 01:51	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/3/2010 01:51	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/3/2010 01:51	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/3/2010 01:51	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/3/2010 01:51	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/3/2010 01:51	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:51	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/3/2010 01:51	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/3/2010 01:51	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/3/2010 01:51	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:51	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/3/2010 01:51	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/3/2010 01:51	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/3/2010 01:51	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/3/2010 01:51	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/3/2010 01:51	J
Chloromethane	0.76	ug/L	I	1	1.0	0.60	12/3/2010 01:51	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/3/2010 01:51	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071009**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -9A**

Date Collected: 11/30/10 10:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/3/2010 01:51	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/3/2010 01:51	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/3/2010 01:51	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/3/2010 01:51	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/3/2010 01:51	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/3/2010 01:51	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/3/2010 01:51	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/3/2010 01:51	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/3/2010 01:51	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/3/2010 01:51	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/3/2010 01:51	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/3/2010 01:51	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/3/2010 01:51	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/3/2010 01:51	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/3/2010 01:51	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/3/2010 01:51	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/3/2010 01:51	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/3/2010 01:51	J
1,2-Dichloroethane-d4 (S)	100	%		1	80-120		12/3/2010 01:51	
Toluene-d8 (S)	92	%		1	88-110		12/3/2010 01:51	
Bromofluorobenzene (S)	104	%		1	86-115		12/3/2010 01:51	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	22	mg/L	1	10	0.81	12/1/2010 13:21	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 13:21
Nitrate	0.32	mg/L		1	0.20	0.043	12/1/2010 13:21

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.54	mg/L	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	520	mg/L	1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID:	A1007071001	Date Received:	11/30/10 15:20	Matrix:	Water
Sample ID:	MW -10	Date Collected:	11/29/10 14:10		

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab						
					PQL	MDL								
FIELD PARAMETERS														
Analysis Desc: FIELD - Conductance														
Conductance	542	umhos/cm		1			11/29/2010 14:10	A^						
Dissolved Oxygen	1.42	mg/L		1			11/29/2010 14:10	A^						
Groundwater Elevation	43.28	feet		1			11/29/2010 14:10	A^						
Temperature	25.32	°C		1			11/29/2010 14:10	A^						
Turbidity	7.81	NTU		1			11/29/2010 14:10	A^						
pH	6.93	pH unit		1			11/29/2010 14:10	A^						
METALS														
Analysis Desc: SW846 6010B														
Analysis,Water														
Preparation Method: SW-846 3010A														
Aluminum	400	ug/L		1	200	61	12/6/2010 17:40	J						
Barium	0.014	mg/L		1	0.0020	0.00028	12/6/2010 17:40	J						
Beryllium	0.00013	mg/L	U	1	0.00030	0.00013	12/6/2010 17:40	J						
Cadmium	0.32	ug/L	U	1	0.60	0.32	12/6/2010 17:40	J						
Chromium	5.7	ug/L	V	1	4.0	0.50	12/6/2010 17:40	J						
Cobalt	0.00060	mg/L	U	1	0.0040	0.00060	12/6/2010 17:40	J						
Iron	590	ug/L		1	200	38	12/6/2010 17:40	J						
Manganese	23	ug/L	V	1	1.0	0.24	12/6/2010 17:40	J						
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 17:40	J						
Sodium	7.2	mg/L		1	0.20	0.026	12/6/2010 17:40	J						
Vanadium	0.010	mg/L		1	0.0015	0.00018	12/6/2010 17:40	J						
Zinc	0.0069	mg/L	I	1	0.010	0.0020	12/6/2010 17:40	J						
Analysis Desc: SW846 6020B														
Analysis,Total														
Preparation Method: SW-846 3010A														
Analytical Method: SW-846 6020														
Antimony	0.25	ug/L	I	1	0.60	0.073	12/7/2010 18:24	J						
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 03:46	J						
Copper	0.52	ug/L	I	1	0.70	0.10	12/4/2010 03:46	J						
Lead	0.32	ug/L	I	1	0.70	0.076	12/4/2010 03:46	J						
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 03:46	J						
Silver	0.059	ug/L	U	1	0.30	0.059	12/7/2010 18:24	J						
Thallium	0.067	ug/L	U	1	0.20	0.067	12/4/2010 03:46	J						
Analysis Desc: SW846 7470A														
Analysis,Water														
Preparation Method: SW-846 7470A														
Analytical Method: SW-846 7470A														
Mercury	0.018	ug/L	I	1	0.10	0.014	12/7/2010 13:04	J						

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071001**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -10**

Date Collected: 11/29/10 14:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMICVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 17:08	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 17:08	J
Tetrachloro-m-xylene (S)	102	%		1	40.3-190		12/8/2010 17:08	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 17:33	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 17:33	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 17:33	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 17:33	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 17:33	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 17:33	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 17:33	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 17:33	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 17:33	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 17:33	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 17:33	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 17:33	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 17:33	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 17:33	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 17:33	J
Acetone	3.5	ug/L	I	1	5.0	3.3	12/2/2010 17:33	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 17:33	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 17:33	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 17:33	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 17:33	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 17:33	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 17:33	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 17:33	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 17:33	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 17:33	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 17:33	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 17:33	J
Chloromethane	0.60	ug/L	U	1	1.0	0.60	12/2/2010 17:33	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 17:33	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071001**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -10**

Date Collected: 11/29/10 14:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted		Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 17:33	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 17:33	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 17:33	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 17:33	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 17:33	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 17:33	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 17:33	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 17:33	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 17:33	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 17:33	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 17:33	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 17:33	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 17:33	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 17:33	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 17:33	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 17:33	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 17:33	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 17:33	J
1,2-Dichloroethane-d4 (S)	100	%		1	80-120		12/2/2010 17:33	
Toluene-d8 (S)	94	%		1	88-110		12/2/2010 17:33	
Bromofluorobenzene (S)	104	%		1	86-115		12/2/2010 17:33	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	7.9	mg/L	I	1	10	0.81	12/1/2010 10:45	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 10:45	A
Nitrate	2.2	mg/L		1	0.20	0.043	12/1/2010 10:45	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.081	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	320	mg/L		1	10	10	12/2/2010 09:06	T
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071002**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -11**

Date Collected: 11/29/10 12:05

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	550	umhos/cm		1			11/29/2010 12:05	A^
Dissolved Oxygen	0.74	mg/L		1			11/29/2010 12:05	A^
Groundwater Elevation	43.07	feet		1			11/29/2010 12:05	A^
Temperature	25.82	°C		1			11/29/2010 12:05	A^
Turbidity	14.8	NTU		1			11/29/2010 12:05	A^
pH	6.46	pH unit		1			11/29/2010 12:05	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis,Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	670	ug/L		1	200	61	12/6/2010 18:03	J
Barium	0.012	mg/L		1	0.0020	0.00028	12/6/2010 18:03	J
Beryllium	0.00030	mg/L		1	0.00030	0.00013	12/6/2010 18:03	J
Cadmium	2.5	ug/L		1	0.60	0.32	12/6/2010 18:03	J
Chromium	8.9	ug/L	V	1	4.0	0.50	12/6/2010 18:03	J
Cobalt	0.00064	mg/L	I	1	0.0040	0.00060	12/6/2010 18:03	J
Iron	160	ug/L	I	1	200	38	12/6/2010 18:03	J
Manganese	5.9	ug/L	V	1	1.0	0.24	12/6/2010 18:03	J
Nickel	0.0011	mg/L	U	1	0.0065	0.0011	12/6/2010 18:03	J
Sodium	9.5	mg/L		1	0.20	0.026	12/6/2010 18:03	J
Vanadium	0.013	mg/L		1	0.0015	0.00018	12/6/2010 18:03	J
Zinc	0.0088	mg/L	I	1	0.010	0.0020	12/6/2010 18:03	J
Analysis Desc: SW846 6020B								
Analysis,Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	0.57	ug/L	I	1	0.60	0.073	12/7/2010 19:20	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/4/2010 04:24	J
Copper	2.2	ug/L		1	0.70	0.10	12/4/2010 04:24	J
Lead	1.0	ug/L		1	0.70	0.076	12/4/2010 04:24	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/4/2010 04:24	J
Silver	0.080	ug/L	I	1	0.30	0.059	12/7/2010 19:20	J
Thallium	0.10	ug/L	I	1	0.20	0.067	12/4/2010 04:24	J
Analysis Desc: SW846 7470A								
Analysis,Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.12	ug/L		1	0.10	0.014	12/7/2010 13:21	J

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Advanced Environmental Laboratories, Inc
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone: (407)937-1594
Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071002**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -11**

Date Collected: 11/29/10 12:05

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMICVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0082	ug/L	U	1	0.020	0.0082	12/8/2010 17:33	J
Ethylene Dibromide (EDB)	0.0091	ug/L	U	1	0.020	0.0091	12/8/2010 17:33	J
Tetrachloro-m-xylene (S)	97	%		1	40.3-190		12/8/2010 17:33	

VOLATILES

Analysis Desc: 8260C Analysis, Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 18:19	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 18:19	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 18:19	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 18:19	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 18:19	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 18:19	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 18:19	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 18:19	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 18:19	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 18:19	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 18:19	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 18:19	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 18:19	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 18:19	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 18:19	J
Acetone	51	ug/L		1	5.0	3.3	12/2/2010 18:19	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 18:19	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 18:19	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 18:19	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 18:19	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 18:19	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 18:19	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 18:19	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 18:19	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 18:19	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 18:19	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 18:19	J
Chloromethane	0.60	ug/L	U	1	1.0	0.60	12/2/2010 18:19	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 18:19	J

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Phone: (407)937-1594
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071002**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **MW -11**

Date Collected: 11/29/10 12:05

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 18:19	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 18:19	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 18:19	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 18:19	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 18:19	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 18:19	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 18:19	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 18:19	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 18:19	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 18:19	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 18:19	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 18:19	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 18:19	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 18:19	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 18:19	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 18:19	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 18:19	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 18:19	J
1,2-Dichloroethane-d4 (S)	100	%		1	80-120		12/2/2010 18:19	
Toluene-d8 (S)	96	%		1	88-110		12/2/2010 18:19	
Bromofluorobenzene (S)	101	%		1	86-115		12/2/2010 18:19	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	4.1	mg/L	I	1	10	0.81	12/1/2010 09:35	A
Fluoride	0.15	mg/L	U	1	0.20	0.15	12/1/2010 09:35	A
Nitrate	3.7	mg/L		1	0.20	0.043	12/1/2010 09:35	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.061	mg/L	I	1	0.10	0.025	12/2/2010 11:42	T
-------------	--------------	------	----------	----------	------	-------	-----------------	---

Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	320	mg/L		1	10	10	12/2/2010 09:06	T
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Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Certification I. D. # E83033

Work Order #: 1012032

Report Date: 12/14/10

Report to:

Advanced Environmental Laboratories, Inc.

528 S. North Lake Blvd., Ste. 1016

Altamonte Springs, FL 32701

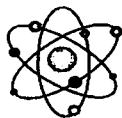
Attention: Myrna Santiago

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards. The test results in this report relate only to the samples received.

Signed


Michael J. Naumann - President

Date 12-14-10

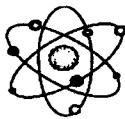


Florida Radiochemistry Services, Inc.

Sample Login

Client:	Advanced Environmental Laboratories, Inc.	Date / Time Received	Work order #
		12/06/10 17:00	1012032
Client Contact:	Myrna Santiago		
Client P.O.			
Project I.D.	A1007071		

Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
1012032-01	A1007071-01	11/29/10 14:10	Ga, Ra226, Ra228
1012032-02	A1007071-02	11/29/10 12:05	Ga, Ra226, Ra228
1012032-03	A1007071-03	11/30/10 12:35	Ga, Ra226, Ra228
1012032-04	A1007071-04	11/30/10 11:30	Ga, Ra226, Ra228
1012032-05	A1007071-05	11/29/10 16:00	Ga, Ra226, Ra228
1012032-06	A1007071-06	11/29/10 15:10	Ga, Ra226, Ra228
1012032-07	A1007071-07	11/30/10 13:55	Ga, Ra226, Ra228
1012032-08	A1007071-08	11/29/10 13:05	Ga, Ra226, Ra228
1012032-09	A1007071-09	11/30/10 10:30	Ga, Ra226, Ra228

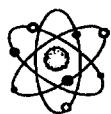


Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	<u>MW-10</u> 1012032-01	<u>MW-11</u> 1012032-02	<u>MW-12</u> 1012032-03	<u>MW-4</u> 1012032-04	<u>MW-4A</u> 1012032-05	<u>MW-4B</u> 1012032-06
-----------------	----------------------------	----------------------------	----------------------------	---------------------------	----------------------------	----------------------------

Client I.D.	A1007071-01	A1007071-02	A1007071-03	A1007071-04	A1007071-05	A1007071-06
Gross Alpha	11.4	14.3	1.1	3.9	2.7	2.2
Error +/-	1.3	3.2	0.8	2.0	0.8	1.0
MDL	0.9	1.9	0.9	2.0	0.9	1.0
EPA Method	900.0	900.0	900.0	900.0	900.0	900.0
Prep Date	12/08/10	12/08/10	12/08/10	12/08/10	12/08/10	12/08/10
Prep Time	06:24	06:24	06:24	06:24	06:24	06:24
Analysis Date	12/09/10	12/09/10	12/09/10	12/09/10	12/09/10	12/09/10
Analysis Time	10:20	06:59	06:59	06:59	10:20	07:04
Analyst	MJN	MJN	MJN	MJN	MJN	MJN
Radium 226	1.3	2.4	0.3	0.9	1.1	0.3
Error +/-	0.2	0.2	0.2	0.2	0.2	0.1
MDL	0.2	0.1	0.2	0.1	0.2	0.2
EPA Method	903.1	903.1	903.1	903.1	903.1	903.1
Prep Date	12/07/10	12/07/10	12/07/10	12/07/10	12/07/10	12/07/10
Prep Time	10:11	10:11	10:11	10:11	10:11	10:11
Analysis Date	12/14/10	12/14/10	12/14/10	12/14/10	12/14/10	12/14/10
Analysis Time	10:36	10:36	10:36	10:36	10:36	11:38
Analyst	MJN	MJN	MJN	MJN	MJN	MJN
Radium 228	0.9U	0.9	0.9U	0.8U	0.8U	0.8U
Error +/-	0.6	0.6	0.5	0.5	0.6	0.5
MDL	0.9	0.9	0.9	0.8	0.8	0.8
EPA Method	Ra-05	Ra-05	Ra-05	Ra-05	Ra-05	Ra-05
Prep Date	12/07/10	12/07/10	12/07/10	12/07/10	12/07/10	12/07/10
Prep Time	10:11	10:11	10:11	10:11	10:11	10:11
Analysis Date	12/14/10	12/14/10	12/14/10	12/14/10	12/14/10	12/14/10
Analysis Time	11:24	11:24	11:24	11:24	11:24	11:24
Analyst	PJ	PJ	PJ	PJ	PJ	PJ
Units	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	<u>MW-6A</u> 1012032-07	<u>MW-8</u> 1012032-08	<u>MW-9A</u> 1012032-09
Client I.D.	A1007071-07	A1007071-08	A1007071-09
Gross Alpha	2.0	2.3U	6.7
Error +/-	1.2	1.5	1.4
MDL	1.2	2.3	1.3
EPA Method	900.0	900.0	900.0
Prep Date	12/08/10	12/08/10	12/08/10
Prep Time	06:24	06:24	06:24
Analysis Date	12/09/10	12/09/10	12/09/10
Analysis Time	07:04	10:20	10:20
Analyst	MJN	MJN	MJN
Radium 226	0.3	0.7	2.0
Error +/-	0.1	0.2	0.2
MDL	0.2	0.2	0.1
EPA Method	903.1	903.1	903.1
Prep Date	12/07/10	12/07/10	12/07/10
Prep Time	10:11	10:11	10:11
Analysis Date	12/14/10	12/14/10	12/14/10
Analysis Time	11:38	11:38	11:38
Analyst	MJN	MJN	MJN
Radium 228	0.8U	0.8U	1.1
Error +/-	0.5	0.5	0.6
MDL	0.8	0.8	0.8
EPA Method	Ra-05	Ra-05	Ra-05
Prep Date	12/07/10	12/07/10	12/07/10
Prep Time	10:11	10:11	10:11
Analysis Date	12/14/10	12/14/10	12/14/10
Analysis Time	11:24	12:28	12:28
Analyst	PJ	PJ	PJ
Units	pCi/l	pCi/l	pCi/l

FIELD LOG
Well Water Levels

PROJ# P-431

NAME: Dale Clayton

PROJECT

NAME: Sumter County Landfill

DATE: 11/30/10

PROJECT

LOCATION: Sumterville, FL

TIME	COMMENTS
Well	WL
#	(ft, bftcc)
MW-1	27.26'
MW-2	25.98'
MW-2A	29.00'
MW-4	27.39'
MW-4A	32.57'
MW-4B	30.65'
MW-6A	34.16'
MW-7	29.98'
MW-8	24.89'
MW-9	29.46'
MW-9A	32.05'
MW-10	25.62'
MW-11	27.14'
	TD
	45.92"

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 11/30/00

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" i/4" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP
-----------------------------------	-------------------------------------	---	-------------------------------	----------------------------------

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

$$1 \text{ Well Vol} = (31.92' \text{ feet} - 25.98' \text{ feet}) \times .16 \text{ gallons/foot} = 9.504 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

$$1 \text{ Equip Vol} = .02 \text{ gallons} + (.006 \text{ gallons/foot} \times 28' \text{ feet}) + .125 \text{ gallons} = .315 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210	.96	.96	.03	26.66'	6.96	22.71	264	4.26	1.30	Clear-	None
1212	.16	1.12	.03	26.66'	6.91	22.72	262	4.25	0.82	Clear	None
1214	.16	1.28	.03	26.66'	6.92	22.62	262	4.61	0.73	Clear	None
								No shear			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1235					
PUMP OR TUBING DEPTH IN WELL (feet): ~27'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y N	FIELD-FILTERED: <input checked="" type="checkbox"/> Y N	FILTER SIZE: _____ µm Filtration Equipment Type: _____	DUPPLICATE: <input checked="" type="checkbox"/> Y N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-2	2	PE	1 Ltr	HN03	None	--	GrossAlpha, RA226RA228	APP
"	1	PE	250 mL	H2S04	None	--	Total Ammonia	APP
"	1	PE	250 mL	HN03	None	--	Metals	APP
"	1	PE	500 mL	None	None	--	Chloride, Fluoride, Nitrate, TDS	APP
"	—	Various	Various	Reproduced	None	—	Any I Parameters	APP/RPP

REMARKS:

1158: Set dedicated 1/4" PE tube at ~27' bdc and began purging @ .08 gpm with a PP.

1203: WL 26.87' @ .08 gpm, GW is clear.

1208: WL 26.06' @ .08 gpm, DO is high @ 4.69 mg/L, but is typical for this well. Will use optional stabilization criteria below.
Drawdown is stable.

- Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

- Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 11/30/10

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$1 \text{ Well Vol} = (36.35' \text{ feet} - 22.39' \text{ feet}) \times .16 \text{ gallons/foot} = 1.4336 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X 38' feet) + .125 gallons = .375 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~31'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~31'	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1141	TOTAL VOLUME PURGED (gallons): 3.60							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1110	2.45	2.45	.3	27.80	7.29	26.56	599	.56	9.64	clear	sulfur
1112	:6	3.00	.3	27.80	7.26	26.74	605	.56	8.17	clear	same
1114	:6	3.60	.3	27.80	7.23	26.28	609	.54	6.14	clear	same
No screen											
WELL CAPACITY (Gallons Per Foot): 0.76" = 0.02; 1" = 0.04; 1.26" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal/ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1130					
PUMP OR TUBING DEPTH IN WELL (feet): ~31'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Metals	ESP
"	1	PE	500 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	ESP
"	Various	Various	Various	Preserved	-	-	APP 2 Peristaltic	ESP

REMARKS:

1102: Inserted 55 ESP and dedicated 3/8" PE tubing to ~31' 6tot and began purging @ 3:30pm.

1107: WL 27.80 @ 3:30pm, GW is clear.

1109: WL 27.80 @ 3:30pm, drawdown is stable. GW is clear.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

176
4/80

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4A	SAMPLE ID: MW-4A	DATE: 1/29/00	
PURGING DATA			
WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 32.58' TO WATER (feet):
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)		PURGE PUMP TYPE OR BAILER: ESP	
		= (45.23' feet - feet) X gallons/foot = gallons	
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X 3 ≈ 1.25		(only fill out if applicable)	
1 Equip Vol = .02 gallons + (.006 gallons/foot X 45' feet) + .125 gallons = .415 gallons			
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	PURGING INITIATED AT: 1523	PURGING ENDED AT: 1546
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)
1542	5.10	5.10	.1
1544	5.30	5.30	.1
1546	5.50	5.50	.1
No stream			
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT: 1547	SAMPLING ENDED AT: 1600			
PUMP OR TUBING DEPTH IN WELL (feet): ~40'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: Y N		FIELD-FILTERED: Y N FILTER SIZE: _____ μm Filtration Equipment Type: _____		DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride,Fluoride, Nitrate,TDS	ESP
"	-	Various	Various	Preserved	None	—	All Parameters	ESP

REMARKS:

1523: Inserted 55 ESP and dedicated 3/8" PE tubing to ~40' bdc and began purging @ 1 gpm.

1530: WL 32.60' @ 1 gpm. GW is turbid @ 53 NTU's. Increased flow to 5 gpm to clean out well.

1538: Turbidity @ 13 NTU's, reduced flow to 1 gpm.

1540: WL 32.61' @ 1 gpm. drawdown is stable.

- Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-4B	SAMPLE ID: MW-4B	DATE: 11/29/10

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 30.65 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable											
<i>1 Wed Vol = 38.49' feet - 30.65' feet) X .16 gallons/foot = 1.2544 gallons</i>											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	PURGING INITIATED AT: 1435	PURGING ENDED AT: 1452	TOTAL VOLUME PURGED (gallons): 1.70							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1448	1.30	1.30	.1	30.69	7.13	26.86	146	5.16	5.68	Clear	None
1450	~2	1.50	.1	30.69	7.18	27.05	145	5.32	4.19	Cloudy	None
1452	~2	1.70	.1	30.69	7.17	27.11	145	5.32	3.53	Clear	None
<i>No Street</i>											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1453	SAMPLING ENDED AT: 1510					
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP	TUBING						
	FLOW RATE (mL per minute): < 250 mL	MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N	FIELD-FILTERED: Y N	FILTER SIZE: _____ µm Filtration Equipment Type:	DUPPLICATE: Y <input checked="" type="checkbox"/>					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4B	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	2	PE	250 mL	None	None	—	Chloride,Fluoride, Nitrate, TDS	ESP
"	—	Various	Various	Various	Prepared	—	App I parameters	ES0

REMARKS:

1435: Inserted 55 ESP and dedicated 3/8" pe tubing to ~35' boc and began purging @ 1.5pm.

1440: WL 30.69' @ 1.9pm. GW is clear. DC is high @ 5-50 mg/L, but is typical for this well. Will use optional stabilization criteria below.

1445: WL 30.69' @ 1.9pm. drawdown is static. GW is clear.

1447: WL 30.69' @ 1.9pm. pH is high @ 9.15, but is typical for this well.

- Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

3.60
6.00
3.00
3.00

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-6A	SAMPLE ID: MW-6A

DATE: 11/30/10

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH <u>34.16</u> TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (<u>50.84'</u> feet - <u>34.16</u> feet) X <u>1.335</u> gallons/foot = <u>1.335</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol	= .02 gallons + (.006 gallons/foot X <u>50.84'</u> feet) + .125 gallons = <u>.445</u> gallons										
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>~45'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>~45'</u>	PURGING INITIATED AT: <u>1331</u>	PURGING ENDED AT: <u>1337</u>	TOTAL VOLUME PURGED (gallons): <u>13.60</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1333	11.60	11.60	.5	34.20	7.75	25.01	260	7.01	19.4	Clear	Air
1335	1	12.60	.5	34.20	7.75	25.46	266	7.08	17.4	Clear	None
1337	1	13.60	.5	34.20	7.74	24.90	259	7.08	9.56	Clear	None
									No Odor		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal/Fl.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 6/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: <u>1338</u>	SAMPLING ENDED AT: <u>1355</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>~45'</u>	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N	FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type:	FILTER SIZE: <u>1 μm</u>	DUPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-6A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP
"	—	Various	Various	Preserved	None	—	Ag/AgCl, Barometric	ESP

REMARKS:

1331: Inserted 55' ESP and dedicated 3/8" PE tubing to ~45' depth and began purging @ .5 gpm. This well typically is extremely turbid at beginning of purge. Will over-purge to clear it up.

1332: GW is still extremely turbid. Increase flow to 1 gpm.

1333: Turbidity is @ 18 NTUs, reduced flow to .12 gpm.

1337: DO is high @ 6.52 mg/L, but is typical for this well. WJ: 4 use optional stabilization criteria below. Turbidity is up to 34 NTUs. Increased flow to .5 gpm. (over)

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes

2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3) H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

(MW-6A)

1330: Turbidity has dropped to 14 NTU @ higher flow rate. DO is stable @ 7.00 mg/l. WL 34.20' and stable.

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 11/27/10

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH <u>24.87</u> TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (<u>43.24'</u> feet - <u>24.87</u> feet) X <u>gallons/foot</u> = <u>gallons</u>											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
<u>1 Equip Vol</u> = <u>.02</u> gallons + (<u>.006</u> gallons/foot X <u>.38'</u> feet) + <u>.125</u> gallons = <u>.403</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>~38'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>~38'</u>	PURGING INITIATED AT: <u>1231</u>	PURGING ENDED AT: <u>1249</u>	TOTAL VOLUME PURGED (gallons): <u>5.40</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1245	4.20	4.20	.3	24.89	2.23	24.56	326	3.87	10.03	clear	None
1247	.6	4.80	.3	24.89	2.22	24.53	326	3.57	8.51	clear	None
1249	.6	5.40	.3	24.89	2.22	24.55	327	3.77	5.24	clear	None
										A/C Sicker.	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88					TUBING INSIDE DIA. CAPACITY (Gal/Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016						

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER/DESIGNER SIGNATURES:	SAMPLING INITIATED AT: <u>1230</u>	SAMPLING ENDED AT: <u>1245</u>					
PUMP OR TUBING DEPTH IN WELL (feet): <u>~38'</u>	SAMPLE PUMP FLOW RATE (mL per minute): <u>< 250 mL</u>	TUBING	MATERIAL CODE: PE					
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FILTER SIZE: <u>μm</u> Filtration Equipment Type:	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE		
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED			TOTAL VOL ADDED IN FIELD (mL)	FINAL pH
MW-8	2	PE	1 Ltr	HN03	None	--	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	--	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	--	Metals	ESP
"	2	PE	250 mL	None	None	--	Chloride, Fluoride, Nitrate, TDS	ESP
"	-	Various	Various	Various	Preserved	-	App I parameters	ESP

REMARKS:

1231: Set dedicated 3/8" tubing to ~38' & began purging @ 3 gpm.

1232: WL 24.89' @ 3 gpm, GW is turbid. Will over purge to clear it up. Lots of very fine white particles suspended in GW.

1233: WL 24.89' @ 3 gpm, drawdown is stable. Turbidity @ 15 NTUs. DO is high @ 3.90 mg/L but is typical for this well. Will use optional stabilization criteria below.

- Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-9A	SAMPLE ID: MW-9A	DATE: 11/30/10

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable											
= (50.17' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X 52' feet) + .125 gallons = .445 gallons X 3 = 1.335											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	PURGING INITIATED AT: 0935	PURGING ENDED AT: 1014	TOTAL VOLUME PURGED (gallons): 19.5							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1010	12.5	12.5	.5	34.00	6.40	25.22	922	.67	11.2	Clear	None
1012	.1	12.5	.5	34.00	6.40	25.28	917	.54	10.48	Cloudy	None
1014	.1	12.5	.5	34.00	6.40	25.26	905	.32	10.69	Clear	None
No Sheen											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal/Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1030					
PUMP OR TUBING DEPTH IN WELL (feet): ~45'	SAMPLE PUMP FLOW RATE (ml/minute):	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION (Y/N)	FIELD-FILTERED: Y N Filtration Equipment Type: _____	FILTER SIZE: _____ µm	DUPPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE		
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED			TOTAL VOL ADDED IN FIELD (mL)	FINAL pH
MW-9A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP
"	Various	Various	Various	Preserved	None	—	App E parameters	ESP

REMARKS:

0935: Inserted SS ESP and dedicated 3/8" PE tubing to ~45' stock and began purging @ .5 gpm. This well typically has extremely high turbidity at beginning of purge. Will over purge to clear it up.

0955: Turbidity @ 45 NTUs, continuing to purge @ .5 gpm.

1005: Turbidity @ 19 NTUs, WL 34.09' @ .5 gpm.

1009: WL 34.00' @ .5 gpm, GW is clear.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFFF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3H): ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 11/29/10

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): PURGE PUMP TYPE OR BAILER: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)			
= (45.35' feet - feet) X gallons/foot = gallons			
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X .405 (only fill out if applicable)			
1 Equip Vol = .02 gallons + (.006 gallons/foot X .405 feet) + .125 gallons = .425 gallons			
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1357
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)
1353	19	19	.5
1355	1	20	.5
1357	1	21	.5
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal/Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1358	SAMPLING ENDED AT: 1410					
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING	MATERIAL CODE: PE					
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: μm Filtration Equipment Type:	DUPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-10	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA228RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	2	PE	~500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP
"	—	Various	Various	Preserved	None	—	App 2 parameters	ESP

REMARKS:

- 1330: Inserted 55 ESP and dedicated 3/8" PE tubing to ~40' 64oz end began purging @ .5 gpm. This well has a history of high turbidity at beginning of purge. Will over purge to clean it up.
- 1335: GW is extremely turbid. Increased flow to 1 gpm.
- 1341: Turbidity @ 59 NTU's, continuing purge.
- 1345: Turbidity @ 37 NTU's, continuing purge.
- 1350: Turbidity @ 16 NTU's, reduced flow to .5 gpm.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $< 20\%$ saturation (see Table FS 2200-2), optionally, $\pm .02 \text{ mg/L}$ or $\pm 10\%$ (whichever is greater); Turbidity: all readings $\leq 20 \text{ NTU}$, optionally $\pm 5 \text{ NTU}$ or $\pm 10\%$ (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL									
WELL NO: MW-11	SAMPLE ID: MW-11		DATE: 11/29/10								
PURGING DATA											
WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 32.14 TO WATER (feet): PURGE PUMP TYPE OR BAILER: ESP								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (40.15' feet - 32.14 feet) X .02 gallons/foot = .405 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X 40 feet) + .125 gallons = .405 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	PURGING INITIATED AT: 1129	PURGING ENDED AT: 1149 TOTAL VOLUME PURGED (gallons): 10.00								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1143	2.00	2.00	.5	22.30	6.45	25.84	534	1.00	21.4	Clear	None
1145	1.00	3.00	.5	22.30	6.43	25.84	536	.80	18.3	Clear	None
1147	1.00	4.00	.5	22.30	6.43	25.81	543	.78	16.3	Clear	None
1149	1.00	10.00	.5	22.30	6.46	25.82	550	.74	14.8	Clear	None
<i>No shear</i>											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal/Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA								
SAMPLER BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES:						
PUMP OR TUBING DEPTH IN WELL (feet): ~35'		SAMPLE RAMP	SAMPLING INITIATED AT: 1150					
		FLOW RATE (mL per minute): < 250 mL	TUBING					
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: Y N FILTER SIZE: _____ µm Filtration Equipment Type: _____	MATERIAL CODE: PE					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-11	2	PE	1 Ltr	HN03	None	-	GrossAlpha, RA226,RA228	ESP
"	1	PE	250 mL	H2S04	None	-	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	-	Metals	ESP
"	a	PE	1000 mL	None	None	-	Chloride,Fluoride, Nitrate, TDS	ESP
"	-	Various	Various	Various	Preservative None	-	App & parameters	ESP

REMARKS:

1129: Inserted SS 250 and dedicated 3/8" PE tubing to ~35' static and began purging @ .5 gpm.

1132: GW is extremely turbid and is typical for this well at beginning of purge. Will over purge to clear it up.

1136: Turbidity is @ 29 NTU's; continuing to purge. WL 27.31 @ .5 gpm.

1139: Turbidity @ 19 NTU's, WL 27.31 @ .5 gpm. Drawdown is stable.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES:	AG = Amber Glass;	CG = Clear Glass;	PE = Polyethylene;	PP = Polypropylene;	S = Silicone;	T = Teflon;	O = Other (Specify)
SAMPLING/PURGING	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump		
EQUIPMENT CODES:	RFP = Reverse Flow Peristaltic Pump;	SM = Straw Method (Tubing Gravity Drain);		VT = Vacuum Trap;		O = Other (Specify)	

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Clayton, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1110			
PUMP OR TUBING DEPTH IN WELL (feet):		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: Y N FILTER SIZE: _____ μm Filtration Equipment Type: _____			DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
EQB	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP
"		Various	Various	Various	None	—	Appendix I Parameters	ESP
EQB	3	CG	40ML	HCl	Preserved	—	APPENDIX I PARAMETERS	ESP
REMARKS:								

REMARKS:

Field decorated 3 gallon PE bucket, SS ESD, and WL probe TAW D-EP-SOF-001/01, FL 1000. Poured 1 gallon of DI Water into 3 gallon bucket and inserted SS ESD and WL probe. Circulated DI Water through ESD and over WL probe for ~5 minutes and collected GW samples using an intermediate container.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
 RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VM = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. **STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3):** ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $< 20\%$ saturation (see Table FS 2200-2), optionally, $\pm .02$ mg/L or $\pm 10\%$ (whichever is greater); Turbidity: all readings < 20 NTU, optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)



Page 1

A1007071

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 529 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32710 • 407.337.1864 • Fax 407.337.1567 • E#3078

ANALYSIS REQUIRED									
SAMPLE DESCRIPTION									
SAMPLE ID	GATE			SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	WATER	BOTTLE & TYPE
MW-10	G	1/29/10	14:00	W	12	X	X	X	
MW-11	G	1/29/10	14:05	W	12	X	X	X	
MW-2	G	1/29/10	14:35	W	12	X	X	X	
MW-4	G	1/30/10	11:30	W	12	X	X	X	
MW-4A	G	1/30/10	16:00	W	12	X	X	X	
MW-4B	G	1/31/10	15:10	W	12	X	X	X	
MW-6A	G	1/30/10	13:35	W	12	X	X	X	
MW-8	G	1/29/10	13:05	W	12	X	X	X	
MW-9A	G	1/30/10	10:30	W	12	X	X	X	
Trip Blank-2	-	-	-	W	1				

Notes/Code: WW = wastewater SW = surface water GW = ground water DW = drinking water Gd = air SO = soil SI = sludge

Preserved on ice No Temp taken from sample Temp from temp blank Where required, pH checked Device used for measuring Temp by unique identifier (code IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A C: 7%

Preservation Code: I = Ice H = Hot C = Cold N = (H2O) T = (H2O) S = (H2O) N = (H2O) T = (H2O) S = (H2O)

Temperature when received _____ (In degree Celsius)
 (Name/Pt. of Submission and phone number) J: 9A G: LT-1 LT-2 T: 10A C: 7%
 Contact Person: _____ Phone: _____
 Supplier of Water: _____
 Site Address: _____

Received by:	Date	Time
1	1/29/10	14:00
2		
3		
4		

Form revised 2/2006

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556/Lamotte 2020e INSTRUMENT #

PARAMETERS:

TEMPERATURE CONDUCTIVITY SALINITY pH
 TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Bracket calibrated meters pH 4 – 7 and Turbidity 1 – 10 NTU's]

Standard A Oakton pH Standard 4.01 Units Exp: 2/201d

Standard B Oakton pH Standard 7.00 Units Exp: 4/2012

Standard C Oakton Conductivity Standard 1500 uS/cm Exp: 5/2011

Standard D Lamotte 1 NTU Standard Exp: 9/28/11

Standard E Lamotte 10 NTU Standard Exp: 9/2011

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/29/10 0955		A	4.01	4.01		Yes	IC	JPC
		B	7.00	7.00				pH
		C	1500	1391 ⁶ 21.1% ok				Cond
		-	-	8.45				DO
		-	-	23.78				Temp
		D	1	1.00				Turb
		E	10	10.00				Turb
11/29/10 1050		A	4.01	4.00		Yes	ICV	JPC
		B	7.00	6.99		Yes		pH
		C	1500	1486 ⁶ 24.4% ok				Cond
		-	-	8.68				DO
		--	--	26.23				Temp
		D	1	.94				Turb
		E	10	9.95				Turb
11/29/10 1615		A	4.01	-		Yes	CC	JPC
		B	7.00	6.96				pH
		C	1500	1490 ⁶ 24.16% ok				Cond
		-	-	8.14				DO
		--	--	25.58				Temp
		D	1	-				Turb
		E	10	9.92				Turb

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556/Lamotte 2020e INSTRUMENT #

PARAMETERS:

TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Bracket calibrated meters pH 4 – 7 and Turbidity 1 – 10 NTU's]

Standard A Oakton pH Standard 4.01 Units Exp: 7/2012

Standard B Oakton pH Standard 7.00 Units Exp: 4/2012

Standard C Oakton Conductivity Standard 1500 uS/cm, Exp: 5/2011

Standard D Lamotte 1 NTU Standard Exp: 9/2011

Standard E Lamotte 10 NTU Standard Exp: 9/2011

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/30/10	0855	A	4.01	4.01		Yes	IC	JPL
		B	7.00	7.00				pH
		C	1500	1408 ⁶ 21.28% OK				Cond
		-	--	8.85				DO
		-	--	21.40				Temp
		D	1	1.00				Turb
		E	10	10.00				Turb
11/30/10	0915	A	4.01	4.02		Yes	ICV	JPL
		B	7.00	2.02				pH
		C	1500	1441 ⁶ 20.94% OK				Cond
		-	--	8.51				DO
		-	--	23.45				Temp
		D	1	0.94				Turb
		E	10	10.03				Turb
11/30/10	1410	A	4.01	-		Yes	CC	JPL
		B	7.00	2.02				pH
		C	1500	1494				Cond
		-	--	8.38				DO
		-	--	24.16				Temp
		D	1	-				Turb
		E	10	9.97				Turb



**Advanced
Environmental Laboratories, Inc.**

Advanced Environmental Laboratories, Inc.
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone: (407)937-1594
Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071010**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **EQB**

Date Collected: 11/29/10 11:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
					Preparation Method: SW-846 5030B			
					Analytical Method: SW-846 8260B			
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 15:17	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 15:17	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 15:17	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 15:17	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 15:17	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 15:17	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 15:17	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 15:17	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 15:17	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 15:17	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 15:17	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 15:17	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 15:17	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 15:17	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 15:17	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/2/2010 15:17	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 15:17	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 15:17	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 15:17	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 15:17	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 15:17	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 15:17	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 15:17	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 15:17	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 15:17	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 15:17	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 15:17	J
Chloromethane	1.3	ug/L		1	1.0	0.60	12/2/2010 15:17	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 15:17	J
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 15:17	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 15:17	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 15:17	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 15:17	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 15:17	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 15:17	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 15:17	J

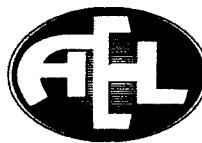
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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071010**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **EQB**

Date Collected: 11/29/10 11:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 15:17	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 15:17	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 15:17	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 15:17	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 15:17	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 15:17	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 15:17	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 15:17	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 15:17	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 15:17	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 15:17	J
1,2-Dichloroethane-d4 (S)	98	%		1	80-120		12/2/2010 15:17	
Toluene-d8 (S)	96	%		1	88-110		12/2/2010 15:17	
Bromofluorobenzene (S)	102	%		1	86-115		12/2/2010 15:17	

Lab ID: **A1007071011**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **Trip Blank-2**

Date Collected: 11/22/10 14:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
1,1,1,2-Tetrachloroethane	0.45	ug/L	U	1	1.0	0.45	12/2/2010 16:03	J
1,1,1-Trichloroethane	0.39	ug/L	U	1	1.0	0.39	12/2/2010 16:03	J
1,1,2,2-Tetrachloroethane	0.57	ug/L	U	1	1.0	0.57	12/2/2010 16:03	J
1,1,2-Trichloroethane	0.32	ug/L	U	1	1.0	0.32	12/2/2010 16:03	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	12/2/2010 16:03	J
1,1-Dichloroethylene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 16:03	J
1,2,3-Trichloropropane	0.66	ug/L	U	1	1.0	0.66	12/2/2010 16:03	J
1,2-Dibromo-3-Chloropropane	3.1	ug/L	U	1	5.0	3.1	12/2/2010 16:03	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 16:03	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	12/2/2010 16:03	J
1,2-Dichloropropane	0.43	ug/L	U	1	1.0	0.43	12/2/2010 16:03	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	12/2/2010 16:03	J
2-Butanone (MEK)	0.71	ug/L	U	1	5.0	0.71	12/2/2010 16:03	J

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ANALYTICAL RESULTS

Workorder: A1007071 Sumter Co. Landfill

Lab ID: **A1007071011**

Date Received: 11/30/10 15:20 Matrix: Water

Sample ID: **Trip Blank-2**

Date Collected: 11/22/10 14:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	12/2/2010 16:03	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	12/2/2010 16:03	J
Acetone	3.3	ug/L	U	1	5.0	3.3	12/2/2010 16:03	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	12/2/2010 16:03	J
Benzene	0.30	ug/L	U	1	1.0	0.30	12/2/2010 16:03	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	12/2/2010 16:03	J
Bromodichloromethane	0.34	ug/L	U	1	1.0	0.34	12/2/2010 16:03	J
Bromoform	0.56	ug/L	U	1	5.0	0.56	12/2/2010 16:03	J
Bromomethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 16:03	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	12/2/2010 16:03	J
Carbon Tetrachloride	0.29	ug/L	U	1	1.0	0.29	12/2/2010 16:03	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	12/2/2010 16:03	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	12/2/2010 16:03	J
Chloroform	0.36	ug/L	U	1	1.0	0.36	12/2/2010 16:03	J
Chloromethane	1.1	ug/L		1	1.0	0.60	12/2/2010 16:03	J
Dibromochloromethane	0.30	ug/L	U	1	1.0	0.30	12/2/2010 16:03	J
Dibromomethane	0.44	ug/L	U	1	1.0	0.44	12/2/2010 16:03	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	12/2/2010 16:03	J
Ethylene Dibromide (EDB)	0.38	ug/L	U	1	1.0	0.38	12/2/2010 16:03	J
Iodomethane (Methyl Iodide)	0.34	ug/L	U	1	5.0	0.34	12/2/2010 16:03	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	12/2/2010 16:03	J
Styrene	0.21	ug/L	U	1	1.0	0.21	12/2/2010 16:03	J
Tetrachloroethylene (PCE)	0.82	ug/L	U	1	1.0	0.82	12/2/2010 16:03	J
Toluene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 16:03	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	12/2/2010 16:03	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	12/2/2010 16:03	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	12/2/2010 16:03	J
Vinyl Chloride	0.40	ug/L	U	1	1.0	0.40	12/2/2010 16:03	J
Xylene (Total)	0.63	ug/L	U	1	3.0	0.63	12/2/2010 16:03	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	12/2/2010 16:03	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	12/2/2010 16:03	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	12/2/2010 16:03	J
trans-1,3-Dichloropropylene	0.33	ug/L	U	1	1.0	0.33	12/2/2010 16:03	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	12/2/2010 16:03	J
1,2-Dichloroethane-d4 (S)	100	%		1	80-120		12/2/2010 16:03	
Toluene-d8 (S)	96	%		1	88-110		12/2/2010 16:03	
Bromofluorobenzene (S)	103	%		1	86-115		12/2/2010 16:03	

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