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Dept. of Environmental  
Protection

JAN 04 2007

Southwest District

SUMTER COUNTY  
(CLOSED) LANDFILL  
QUARTERLY GROUNDWATER  
MONITORING REPORT,  
Quarter IV(November) 2006

[VALIDATOR FILES CD  
FILED SEPARATELY]

*Prepared for:*

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

*Prepared by:*

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

December 2006

ELEVATED pH REPORTED AT MW4B  
ELEVATED D.O. REPORTED AT  
3 OF 9 WELLS  
ELEVATED TURBIDITY REPORTED AT  
0 OF 9 WELLS  
REPORT FORMS NOT PROVIDED AS  
CD w/ VALIDATOR FILES WAS INCLUDED  
RADIOLOGICAL PARAMETER RESULTS  
RECD UNDER SEPARATE COVER  
@ 11/26/07  
~1 FT WL ELEVATION DIFFERENCE  
BETWEEN MW9 & MW9A NOT  
DISCUSSED  
AVAILABLE MDL'S REPORTED FOR  
METALS AT MW-2, MW-6A, MW-11  
-ELEVATED DETECTION LIMITS  
REPORTED FOR ANTIMONY,  
BERILLIUM & RHALLIUM FOR  
THESE WELLS

Nov. 2006  
SAMPLE  
EVENT

**THE COLINAS GROUP, INC.**  
HYDROGEOLOGISTS & ENGINEERS

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

December 29, 2006

Subj: **Quarter IV 2006 Groundwater Monitoring Report**  
**Sumter County Closed Class I Landfill**  
**Sumter County, Florida**  
**FDEP Permit No. 22926-003-SF**

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
JAN - 4 2007  
SOUTHWEST DISTRICT  
TAMPA

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 Class I Landfill Quarterly Groundwater Monitoring Report, Quarter IV (November) 2006**

The report was prepared and is submitted in satisfaction of part of the requirements of the Sumter County Closed Landfill Long-Term Care Permit.

Because of the long laboratory turn-around time for radiological parameters, results for these parameters are not included in this report. We will submit the radiological results to the Department under separate cover as soon as we receive the laboratory reports.

If you have any questions concerning the contents of the report please do not hesitate to contact me at your convenience.

Very truly yours,  
**THE COLINAS GROUP, INC.**

*[Signature]*

Richard L. Potts, Jr., P.G.  
Principal Consultant  
Fl. P.G. Reg. No.1113

cc: Ms. Miriam Zimms (KCI, w/3 copies)

SUMTER COUNTY (CLOSED) LANDFILL  
GROUNDWATER MONITORING REPORT,  
SUMTER COUNTY, FLORIDA  
Quarter IV (November) 2006

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FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
JAN - 4 2007  
SOUTHWEST DISTRICT  
TAMPA

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**ATTACHMENTS:**

1. Quarter IV (November) 2006 Groundwater Contour Map
2. Water Quality Laboratory Analytical Reports (FDEP Format)
3. Field Data and Testing Reports
4. Chain-of-Custody Forms
5. Laboratory/Field Quality Control Reports
6. FDEP Validator Disc - (In Pocket)

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**Sumter County (Closed) Landfill  
Quarterly Groundwater Monitoring Report  
Quarter IV (November) 2006**

**INTRODUCTION**

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter IV (November) 2006 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.

The Groundwater Monitoring Plan for the closed landfill was recently amended to add two (2) new wells installed as part of a Preliminary Contamination Assessment completed for the facility. Monitoring wells MW-4A and MW-4B, installed in the vicinity of existing monitoring well MW-4, were sampled during this event. The current array of groundwater monitoring wells and piezometers at the facility is shown on Figure 1.

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 2006 sampling event at the Sumter County Landfill occurred on November 28 and 30, 2006. All sampling was performed 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 Environmental Conservation Laboratories, Inc. (ENCO) in accordance with the laboratory's NELAC and FDHRS Certification No. E83182. The original analytical reports prepared by ENCO are presented in Attachment 2 to this report.

The laboratory reports for radiological parameters (gross alpha, radium 226 and radium 228) are not yet available. These analyses typically take much longer to complete as compared to the other reported parameters and, consequently, results are not included in this report. Laboratory results for radiological parameters will be submitted to the Department under separate cover as soon as they become available from the laboratory.

Water table depth measurements in each facility groundwater monitoring well and piezometer were recorded on November 30, 2006. 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 November 2006 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 eight (8) of the nine (9) groundwater monitoring wells sampled during the November 2006 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. One well (MW-4B) produced water with a pH above the FDEP range at 9.16 pH units as has been the case since sampling of this well was begun in Quarter II 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 24.96 C at well MW-8 to 28.69 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. 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 163 umhos/cm to 918 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 all wells. Fluid turbidity slightly exceeded 10 NTUs at five (5) wells (MW-4, MW-6A, MW-9A, MW-10 and MW-11).

### **Regulatory Exceedances**

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the November 2006 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-2, MW-4, MW-4B, MW-10 and MW-11 at concentrations slightly above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l. The highest aluminum concentration is reported for MW-4B at 736 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 567 ug/l for well MW-9A and 2,710 ug/l for MW-10. Iron was detected below 300 ug/l at six (6) monitoring wells and was not detected above the laboratory method detection limit at MW-4B.

#### **Manganese**

Manganese was measured at concentrations above the FSDWS MCL of 50 ug/l in two (2) monitoring wells: MW-9A (103 ug/l) and MW-10 (51.1 ug/l). Manganese was detected in two other monitoring wells (MW-2 and MW-11) at concentrations below 50 ug/l.

### **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-2 at 12 mg/l. While not exceeding the FPDWS MCL, groundwater from the facility background monitoring well (MW-6A) and detection wells MW-4, MW-4A, MW-8 and MW-11 produced elevated nitrate levels at 4.6 mg/l, 4.6 mg/l, 9.2 mg/l, 2.3 mg/l and 3.2 mg/l, respectively.

### **Total Dissolved Solids (TDS)**

TDS concentration was measured 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 five (5) 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 concentration at detection well MW-4A (23 mg/l) appears somewhat elevated as compared to the other wells. The SDWS MCL for chloride in groundwater is 250 mg/l.

### **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, 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.

## SUMMARY

Chemical characteristics of groundwater monitored at the Sumter County Landfill are reported for the Quarter IV (November) 2006 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.

Aluminum was reported by the laboratory slightly above the FSDWS MCL (200 ug/l) at wells MW-2, MW-4, MW-4B, MW-10 and MW-11. Aluminum has, in the past, been reported above the MCL in several wells at the Sumter County closed landfill, including the 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 above the FPDWS MCL of 10 mg/l at monitoring well MW-2 at 12 mg/l. Elevated concentrations of nitrate nitrogen were reported at four of the landfill detection wells, MW-4 (4.6 mg/l), MW-4A (9.2 mg/l), MW-8 (2.3 mg/l) and MW-11 (3.2 mg/l), as well as at background well MW-6A (4.6 mg/l). As shown on the groundwater contour map for the November 2006 sampling event (Figure 1) wells MW-2, MW-6A and MW-8 appear to be upgradient of the closed landfill waste disposal areas, suggesting movement of high-nitrate groundwaters from areas to the south and east of the closed landfill and from the north in the vicinity of the county's animal control facility and MW-4.

Concentrations of iron and manganese above the FSDWS MCLs were reported for monitoring wells MW-9A and MW-10. Both of these elements occur naturally in sediments and carbonate rocks penetrated by the monitoring wells and may be artifacts of well construction. Concentrations of other analyzed constituents at these wells do not suggest impacts to groundwater from landfill leachate.

TDS concentration was reported slightly the FSDWS MCL of 500 mg/l at monitoring well MW-9A (520 mg/l). 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.

\* \* \* \* \*

**TABLE I**  
**FIELD PARAMETER RESULTS SUMMARY,**  
**SUMTER COUNTY (CLOSED) LANDFILL**  
**SUMTER COUNTY, FLORIDA**  
**Quarter IV (November) 2006**

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)
<b>MW-2</b>	28.69	<b>1.95</b>	6.67	327	1.95
<b>MW-4</b>	27.25	0.44	7.12	635	12.4
<b>MW-4A</b>	27.24	0.17	7.07	657	6.74
<b>MW-4B</b>	27.65	<b>2.56</b>	<b>9.16</b>	163	3.93
<b>MW-6A</b>	25.58	<b>4.29</b>	7.85	244	12.6
<b>MW-8</b>	24.96	<b>2.72</b>	7.28	382	4.90
<b>MW-9A</b>	25.76	0.21	6.55	918	11.6
<b>MW-10</b>	25.54	0.32	6.87	601	13.2
<b>MW-11</b>	26.70	0.19	6.62	597	11.2

Notes: **Bold** lettering indicates: Exceedance of FDEP 20% dissolved oxygen limit  
Exceedance of FDEP pH range

**TABLE II**  
**SUMMARY OF GROUNDWATER LEVELS**  
**SUMTER COUNTY (CLOSED) LANDFILL**  
**SUMTER COUNTY, FLORIDA**  
**November 30, 2006**

Well No.	Measuring Point Elevation (ft. +NGVD)	Depth to Water (ft. - MP)	Groundwater Elevation (ft. +NGVD)
<b>MW-1</b>	70.17	27.81	42.36 ✓
<b>MW-2</b>	69.13	26.55	42.58 ✓
<b>MW-2A</b>	72.11	29.56	42.55 ✓
<b>MW-4</b>	70.36	27.96	42.40 ✓
<b>MW-4A</b>	75.73	33.15	42.58 ✓
<b>MW-4B</b>	73.83	31.23	42.60 ✓
<b>MW-6A</b>	77.54	34.89	42.65 ✓
<b>MW-7</b>	73.14	30.63	42.51 ✓
<b>MW-8</b>	69.26	25.61	43.65 ✓
<b>MW-9</b>	71.95	29.31	42.64 ✓
<b>MW-9A</b>	74.26	32.63	41.63 <i>NOT SHOWN ON CONTOUR MAP</i>
<b>MW-10</b>	68.28	25.66	42.62 ✓
<b>MW-11</b>	70.21	27.69	42.52 ✓

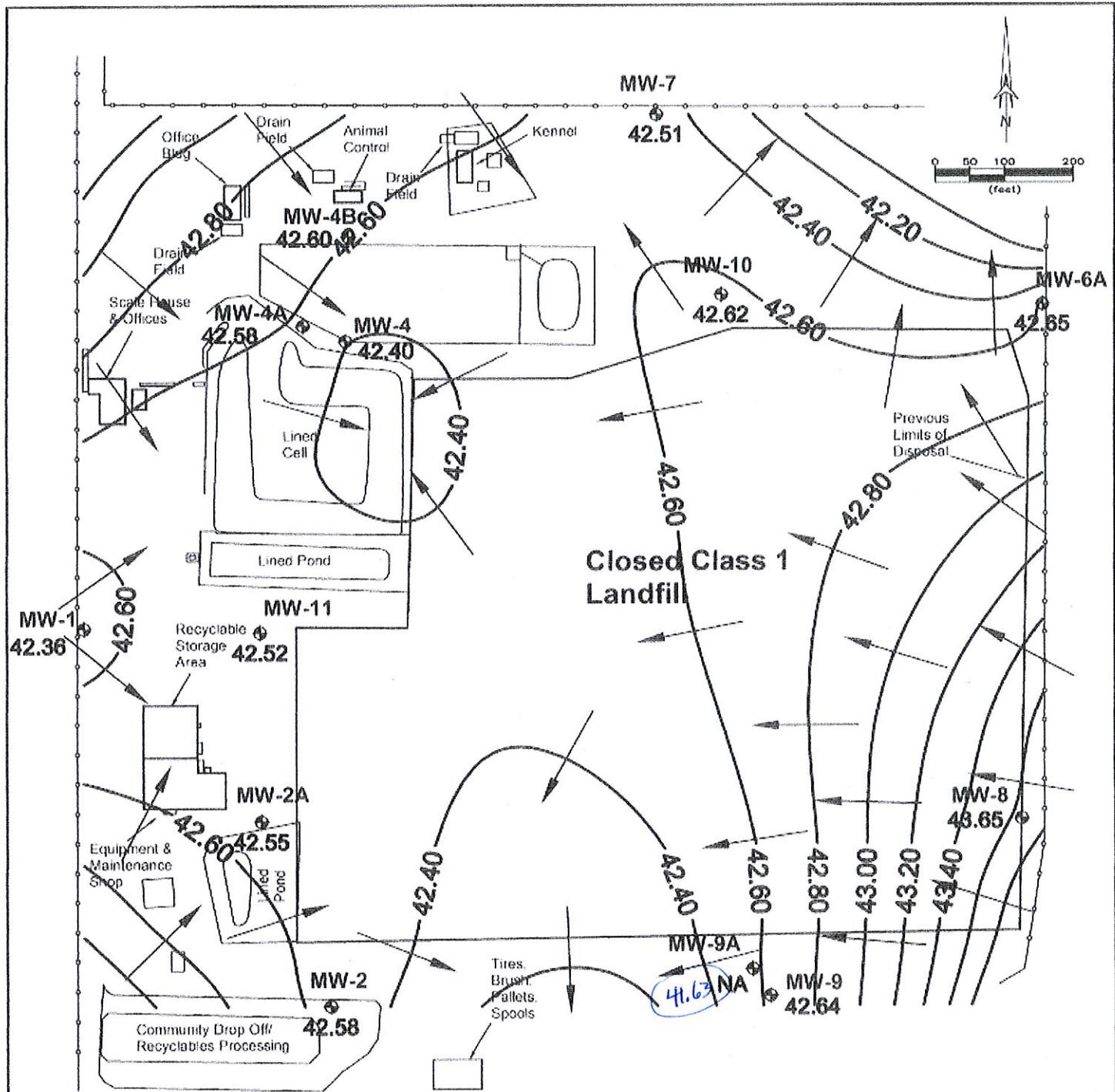
Notes: 1. Measuring Point is top of PVC well casing.  
 2. Water levels recorded on November 30, 2006

**TABLE III**  
**SUMMARY OF LABORATORY RESULTS**  
**SUMTER COUNTY (CLOSED) LANDFILL**  
**QUARTER IV (November) 2006**

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	MCL
Ammonia	mg/l	BDL	BDL	BDL	BDL	BDL	0.044	0.33	0.11	BDL	2.8
Aluminum	ug/l	<b>229</b>	<b>301</b>	119	<b>736</b>	98.0	BDL	129	<b>360</b>	<b>563</b>	200
Antimony	ug/l	BDL	3.87	3.68	3.73	BDL	3.23	3.33	3.20	BDL	6
Arsenic	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Barium	ug/l	18.2	BDL	BDL	BDL	BDL	BDL	BDL	13.7	BDL	2,000
Beryllium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4
Cadmium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Cobalt	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	40.1	BDL	BDL	420
Copper	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,000
Chloride	mg/l	4.3	8.1	23	3.5	5.3	6.6	16	6.8	2.6	250
Chromium	ug/l	BDL	16.3	7.79	8.65	BDL	BDL	BDL	BDL	BDL	100
Fluoride	mg/l	0.05	BDL	BDL	BDL	0.05	BDL	BDL	BDL	BDL	4
Gross Alpha	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	15
Iron	ug/l	93.0	130	52.3	BDL	43.6	56.5	<b>567</b>	<b>2,710</b>	177	300
Lead	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15
Manganese	ug/l	11.4	BDL	BDL	BDL	BDL	BDL	<b>103</b>	<b>51.1</b>	20.0	50
Mercury	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.62	BDL	BDL	2
Nickel	ug/l	BDL	8.84	5.39	BDL	5.64	BDL	15.8	3.21	8.49	100
Nitrate, as N	mg/l	<b>12</b>	4.6	9.2	0.96	4.6	2.3	0.51	1.1	3.2	10
pH	s.u.	6.67	7.12	7.07	<b>9.16</b>	7.85	7.28	6.55	6.87	6.62	<b>6.5-8.5</b>
Radium 226	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	---
Radium 228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	---
Selenium	ug/l	BDL	2.77	2.54	2.83	BDL	2.88	2.48	2.81	BDL	50
Silver	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
Sodium	mg/l	3.74	46.4	32.6	13.1	3.41	5.76	16.9	10.7	13.4	160
TDS	mg/l	260	360	390	130	180	210	<b>520</b>	350	370	500
Thallium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Vanadium	ug/l	BDL	9.54	4.35	37.5	6.00	6.32	8.87	BDL	9.03	49
Zinc	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5,000

Notes: 1). BDL means below laboratory method detection limit  
 2). Bold lettering indicates result exceeds MCL/Guidance concentration  
 3). NA - laboratory test data not available

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The Colinas Group, Inc.  
509 N. Virginia Avenue  
Winter Park, Florida

Potentiometric Surface Contour Map  
Sumter County Landfill, November 30, 2006

Figure 1

2

## ANALYTICAL REPORT

Sample ID: MW-2  
Lab #: A606038-01  
Prep. Method: EPA 5030B\_MS  
Analyzed: 12/03/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6L03002

Project: Sumter Co. Landfill  
Work Order #: A606038  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-2  
 Lab #: A606038-01  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 12/03/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6L03002

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	44	50.0	88 %	57.1-125
Dibromofluoromethane	1868-53-7	55	50.0	109 %	49.8-137
Toluene-d8	2037-26-5	45	50.0	90 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-2  
 Lab #: A606038-01  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.015 U	0.015	0.020	ug/L
1,2-Dibromoethane	106-93-4	0.012 U	0.012	0.020	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.24	0.250	96 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-2  
 Lab #: A606038-01

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6L02004

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	<b>229</b>	31.0	100	ug/L
Antimony	7440-36-0	7.60 U	7.60	50.0	ug/L
Arsenic	7440-38-2	9.80 U	9.80	100	ug/L
<b>Barium</b>	7440-39-3	<b>18.2 I</b>	13.0	1000	ug/L
Beryllium	7440-41-7	8.10 U	8.10	10.0	ug/L
Cadmium	7440-43-9	3.00 U	3.00	50.0	ug/L
Chromium	7440-47-3	12.0 U	12.0	100	ug/L
Cobalt	7440-48-4	2.60 U	2.60	100	ug/L
Copper	7440-50-8	6.30 U	6.30	100	ug/L
<b>Iron</b>	7439-89-6	<b>93.0 I</b>	6.70	100	ug/L
Lead	7439-92-1	1.70 U	1.70	100	ug/L
<b>Manganese</b>	7439-96-5	<b>11.4</b>	0.320	10.0	ug/L
Nickel	7440-02-0	4.70 U	4.70	100	ug/L
Selenium	7782-49-2	17.0 U	17.0	100	ug/L
Silver	7440-22-4	2.00 U	2.00	10.0	ug/L
<b>Sodium</b>	7440-23-5	<b>3740</b>	16.0	1000	ug/L
Thallium	7440-28-0	2.90 U	2.90	10.0	ug/L
Vanadium	7440-62-2	3.80 U	3.80	100	ug/L
Zinc	7440-66-6	19.0 U	19.0	1000	ug/L

## ANALYTICAL REPORT

Sample ID: MW-2  
 Lab #: A606038-01

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003	U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01020
Chloride	16887-00-6	4.3		0.05	1.0	mg/L	EPA 300.0	NA	6L01023
Fluoride	16984-48-8	0.05	I	0.05	0.10	mg/L	EPA 300.0	NA	6L01023
Nitrate as N	NA	12	Q, D	0.016	0.10	mg/L	EPA 300.0	NA	6L01023
Total Dissolved Solids	NA	260		10	10	mg/L	EPA 160.1	NO PREP	6L05024

## ANALYTICAL REPORT

Sample ID: MW-4  
 Lab #: A605885-01  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-4  
 Lab #: A605885-01  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	57.1-125
Dibromofluoromethane	1868-53-7	50	50.0	101 %	49.8-137
Toluene-d8	2037-26-5	44	50.0	88 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-4  
Lab #: A605885-01  
Prep. Method: EPA 504/8011  
Analyzed: 12/06/06 By: RB/  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6L04017

Project: Sumter Co. Landfill  
Work Order #: A605885  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.235	0.250	94 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-4  
 Lab #: A605885-01

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	<b>301</b>	86.7	100	ug/L
Antimony	7440-36-0	<b>3.87 I</b>	2.10	5.00	ug/L
Arsenic	7440-38-2	2.00 U	2.00	10.0	ug/L
Barium	7440-39-3	11.7 U	11.7	100	ug/L
Beryllium	7440-41-7	0.500 U	0.500	0.500	ug/L
Cadmium	7440-43-9	1.70 U	1.70	5.00	ug/L
Chromium	7440-47-3	<b>16.3</b>	6.20	10.0	ug/L
Cobalt	7440-48-4	0.410 U	0.410	10.0	ug/L
Copper	7440-50-8	3.10 U	3.10	5.00	ug/L
Iron	7439-89-6	<b>130</b>	35.8	100	ug/L
Lead	7439-92-1	2.80 U	2.80	10.0	ug/L
Manganese	7439-96-5	0.440 U	0.440	10.0	ug/L
Nickel	7440-02-0	<b>8.84</b>	2.60	10.0	ug/L
Selenium	7782-49-2	<b>2.77 I</b>	1.50	10.0	ug/L
Silver	7440-22-4	0.330 U	0.330	0.500	ug/L
Sodium	7440-23-5	<b>46400</b>	192	500	ug/L
Thallium	7440-28-0	0.220 U	0.220	0.500	ug/L
Vanadium	7440-62-2	<b>9.54 I</b>	2.60	10.0	ug/L
Zinc	7440-66-6	100 U	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: MW-4  
 Lab #: A605885-01

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	8.1	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	4.6	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	360	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## ANALYTICAL REPORT

Sample ID: MW-4A  
 Lab #: A605885-02  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-4A  
 Lab #: A605885-02  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
4-Bromofluorobenzene	460-00-4	46	50.0	92 %	57.1-125
Dibromofluoromethane	1868-53-7	51	50.0	103 %	49.8-137
Toluene-d8	2037-26-5	45	50.0	91 %	87.6-125

### ANALYTICAL REPORT

Sample ID: MW-4A  
 Lab #: A605885-02  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

#### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.223	0.250	89 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-4A  
 Lab #: A605885-02

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	119	86.7	100	ug/L
Antimony	7440-36-0	3.68 I	2.10	5.00	ug/L
Arsenic	7440-38-2	2.00 U	2.00	10.0	ug/L
Barium	7440-39-3	11.7 U	11.7	100	ug/L
Beryllium	7440-41-7	0.500 U	0.500	0.500	ug/L
Cadmium	7440-43-9	1.70 U	1.70	5.00	ug/L
Chromium	7440-47-3	7.79 I	6.20	10.0	ug/L
Cobalt	7440-48-4	0.410 U	0.410	10.0	ug/L
Copper	7440-50-8	3.10 U	3.10	5.00	ug/L
Iron	7439-89-6	52.3 I	35.8	100	ug/L
Lead	7439-92-1	2.80 U	2.80	10.0	ug/L
Manganese	7439-96-5	0.440 U	0.440	10.0	ug/L
Nickel	7440-02-0	5.39	2.60	10.0	ug/L
Selenium	7782-49-2	2.54 I	1.50	10.0	ug/L
Silver	7440-22-4	0.330 U	0.330	0.500	ug/L
Sodium	7440-23-5	32600	192	500	ug/L
Thallium	7440-28-0	0.220 U	0.220	0.500	ug/L
Vanadium	7440-62-2	4.35 I	2.60	10.0	ug/L
Zinc	7440-66-6	100 U	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: MW-4A  
 Lab #: A605885-02

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	23	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	9.2	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	390	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## ANALYTICAL REPORT

Sample ID: MW-4B  
 Lab #: A605885-03  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-4B  
 Lab #: A605885-03  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1-

### **Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
4-Bromofluorobenzene	460-00-4	47	50.0	94 %	57.1-125
Dibromofluoromethane	1868-53-7	51	50.0	103 %	49.8-137
Toluene-d8	2037-26-5	45	50.0	90 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-4B  
 Lab #: A605885-03  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

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Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
1,3-Dichlorobenzene	541-73-1	0.215	0.250	86 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-4B  
 Lab #: A605885-03

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	<b>736</b>	86.7	100	ug/L
Antimony	7440-36-0	<b>3.73 I</b>	2.10	5.00	ug/L
Arsenic	7440-38-2	2.00 U	2.00	10.0	ug/L
Barium	7440-39-3	11.7 U	11.7	100	ug/L
Beryllium	7440-41-7	0.500 U	0.500	0.500	ug/L
Cadmium	7440-43-9	1.70 U	1.70	5.00	ug/L
Chromium	7440-47-3	<b>8.65 I</b>	6.20	10.0	ug/L
Cobalt	7440-48-4	0.410 U	0.410	10.0	ug/L
Copper	7440-50-8	3.10 U	3.10	5.00	ug/L
Iron	7439-89-6	35.8 U	35.8	100	ug/L
Lead	7439-92-1	2.80 U	2.80	10.0	ug/L
Manganese	7439-96-5	0.440 U	0.440	10.0	ug/L
Nickel	7440-02-0	2.60 U	2.60	10.0	ug/L
Selenium	7782-49-2	<b>2.83 I</b>	1.50	10.0	ug/L
Silver	7440-22-4	0.330 U	0.330	0.500	ug/L
Sodium	7440-23-5	<b>13100</b>	192	500	ug/L
Thallium	7440-28-0	0.220 U	0.220	0.500	ug/L
Vanadium	7440-62-2	<b>37.5</b>	2.60	10.0	ug/L
Zinc	7440-66-6	100 U	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: MW-4B  
 Lab #: A605885-03

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	3.5	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	0.96	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	130	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## ANALYTICAL REPORT

Sample ID:	MW-6A	Project:	Sumter Co. Landfill
Lab #:	A606038-02	Work Order #:	A606038
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/03/06 By: kat	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L03002		

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### **Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-6A  
 Lab #: A606038-02  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 12/03/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6L03002

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
4-Bromofluorobenzene	460-00-4	47	50.0	93 %	57.1-125
Dibromofluoromethane	1868-53-7	57	50.0	115 %	49.8-137
Toluene-d8	2037-26-5	48	50.0	96 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-6A  
 Lab #: A606038-02  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

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Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.015 U	0.015	0.020	ug/L
1,2-Dibromoethane	106-93-4	0.012 U	0.012	0.020	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.22	0.250	89 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-6A  
Lab #: A606038-02

Project: Sumter Co. Landfill  
Work Order #: A606038  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6L02004

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	<b>98.0 I</b>	31.0	100	ug/L
Antimony	7440-36-0	7.60 U	7.60	50.0	ug/L
Arsenic	7440-38-2	9.80 U	9.80	100	ug/L
Barium	7440-39-3	13.0 U	13.0	1000	ug/L
Beryllium	7440-41-7	8.10 U	8.10	10.0	ug/L
Cadmium	7440-43-9	3.00 U	3.00	50.0	ug/L
Chromium	7440-47-3	12.0 U	12.0	100	ug/L
Cobalt	7440-48-4	2.60 U	2.60	100	ug/L
Copper	7440-50-8	6.30 U	6.30	100	ug/L
Iron	7439-89-6	<b>43.6 I</b>	6.70	100	ug/L
Lead	7439-92-1	1.70 U	1.70	100	ug/L
Manganese	7439-96-5	0.320 U	0.320	10.0	ug/L
Nickel	7440-02-0	<b>5.64</b>	4.70	100	ug/L
Selenium	7782-49-2	17.0 U	17.0	100	ug/L
Silver	7440-22-4	2.00 U	2.00	10.0	ug/L
Sodium	7440-23-5	<b>3410</b>	16.0	1000	ug/L
Thallium	7440-28-0	2.90 U	2.90	10.0	ug/L
Vanadium	7440-62-2	<b>6.00 I</b>	3.80	100	ug/L
Zinc	7440-66-6	19.0 U	19.0	1000	ug/L

## ANALYTICAL REPORT

Sample ID: MW-6A  
 Lab #: A606038-02

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01020
Chloride	16887-00-6	5.3	0.05	1.0	mg/L	EPA 300.0	NA	6L01023
Fluoride	16984-48-8	0.05 I	0.05	0.10	mg/L	EPA 300.0	NA	6L01023
Nitrate as N	NA	4.6	0.008	0.050	mg/L	EPA 300.0	NA	6L01023
Total Dissolved Solids	NA	180	10	10	mg/L	EPA 160.1	NO PREP	6L04012

## ANALYTICAL REPORT

Sample ID: MW-8  
 Lab #: A605885-04  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-8  
 Lab #: A605885-04  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	47	50.0	93 %	57.1-125
Dibromofluoromethane	1868-53-7	50	50.0	100 %	49.8-137
Toluene-d8	2037-26-5	45	50.0	90 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-8  
Lab #: A605885-04  
Prep. Method: EPA 504/8011  
Analyzed: 12/06/06 By: RB/  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6L04017

Project: Sumter Co. Landfill  
Work Order #: A605885  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.220	0.250	88 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-8  
Lab #: A605885-04

Project: Sumter Co. Landfill  
Work Order #: A605885  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	86.7 U	86.7	100	ug/L
<b>Antimony</b>	7440-36-0	<b>3.23 I</b>	2.10	5.00	ug/L
Arsenic	7440-38-2	2.00 U	2.00	10.0	ug/L
Barium	7440-39-3	11.7 U	11.7	100	ug/L
Beryllium	7440-41-7	0.500 U	0.500	0.500	ug/L
Cadmium	7440-43-9	1.70 U	1.70	5.00	ug/L
Chromium	7440-47-3	6.20 U	6.20	10.0	ug/L
Cobalt	7440-48-4	0.410 U	0.410	10.0	ug/L
Copper	7440-50-8	3.10 U	3.10	5.00	ug/L
<b>Iron</b>	7439-89-6	<b>56.5 I</b>	35.8	100	ug/L
Lead	7439-92-1	2.80 U	2.80	10.0	ug/L
Manganese	7439-96-5	0.440 U	0.440	10.0	ug/L
Nickel	7440-02-0	2.60 U	2.60	10.0	ug/L
<b>Selenium</b>	7782-49-2	<b>2.88 I</b>	1.50	10.0	ug/L
Silver	7440-22-4	0.330 U	0.330	0.500	ug/L
<b>Sodium</b>	7440-23-5	<b>5760</b>	192	500	ug/L
Thallium	7440-28-0	0.220 U	0.220	0.500	ug/L
<b>Vanadium</b>	7440-62-2	<b>6.32 I</b>	2.60	10.0	ug/L
Zinc	7440-66-6	100 U	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: MW-8  
 Lab #: A605885-04

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.044	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	6.6	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	2.3	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	210	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## ANALYTICAL REPORT

Sample ID: MW-9A  
 Lab #: A605885-05  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-9A  
 Lab #: A605885-05  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	57.1-125
Dibromofluoromethane	1868-53-7	49	50.0	99 %	49.8-137
Toluene-d8	2037-26-5	44 S-GC	50.0	87 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-9A  
 Lab #: A605885-05  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.220	0.250	88 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-9A  
 Lab #: A605885-05

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
<b>Mercury</b>	7439-97-6	<b>0.62</b>	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
<b>Aluminum</b>	7429-90-5	<b>129</b>	86.7	100	ug/L
<b>Antimony</b>	7440-36-0	<b>3.33 I</b>	2.10	5.00	ug/L
<b>Arsenic</b>	7440-38-2	<b>2.00 U</b>	2.00	10.0	ug/L
<b>Barium</b>	7440-39-3	<b>11.7 U</b>	11.7	100	ug/L
<b>Beryllium</b>	7440-41-7	<b>0.500 U</b>	0.500	0.500	ug/L
<b>Cadmium</b>	7440-43-9	<b>1.70 U</b>	1.70	5.00	ug/L
<b>Chromium</b>	7440-47-3	<b>6.20 U</b>	6.20	10.0	ug/L
<b>Cobalt</b>	7440-48-4	<b>40.1</b>	0.410	10.0	ug/L
<b>Copper</b>	7440-50-8	<b>3.10 U</b>	3.10	5.00	ug/L
<b>Iron</b>	7439-89-6	<b>567</b>	35.8	100	ug/L
<b>Lead</b>	7439-92-1	<b>2.80 U</b>	2.80	10.0	ug/L
<b>Manganese</b>	7439-96-5	<b>103</b>	0.440	10.0	ug/L
<b>Nickel</b>	7440-02-0	<b>15.8</b>	2.60	10.0	ug/L
<b>Selenium</b>	7782-49-2	<b>2.48 I</b>	1.50	10.0	ug/L
<b>Silver</b>	7440-22-4	<b>0.330 U</b>	0.330	0.500	ug/L
<b>Sodium</b>	7440-23-5	<b>16900</b>	192	500	ug/L
<b>Thallium</b>	7440-28-0	<b>0.220 U</b>	0.220	0.500	ug/L
<b>Vanadium</b>	7440-62-2	<b>8.87 I</b>	2.60	10.0	ug/L
<b>Zinc</b>	7440-66-6	<b>100 U</b>	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: MW-9A  
 Lab #: A605885-05

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.33	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	16	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	0.51	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	520	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## ANALYTICAL REPORT

Sample ID: MW-10  
 Lab #: A605885-06  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-10  
 Lab #: A605885-06  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	46	50.0	92 %	57.1-125
Dibromofluoromethane	1868-53-7	50	50.0	101 %	49.8-137
Toluene-d8	2037-26-5	45	50.0	90 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-10  
 Lab #: A605885-06  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.245	0.250	98 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-10  
 Lab #: A605885-06

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	360	86.7	100	ug/L
Antimony	7440-36-0	3.20 I	2.10	5.00	ug/L
Arsenic	7440-38-2	2.00 U	2.00	10.0	ug/L
Barium	7440-39-3	13.7 I	11.7	100	ug/L
Beryllium	7440-41-7	0.500 U	0.500	0.500	ug/L
Cadmium	7440-43-9	1.70 U	1.70	5.00	ug/L
Chromium	7440-47-3	6.20 U	6.20	10.0	ug/L
Cobalt	7440-48-4	0.410 U	0.410	10.0	ug/L
Copper	7440-50-8	3.10 U	3.10	5.00	ug/L
Iron	7439-89-6	2710	35.8	100	ug/L
Lead	7439-92-1	2.80 U	2.80	10.0	ug/L
Manganese	7439-96-5	51.1	0.440	10.0	ug/L
Nickel	7440-02-0	3.21	2.60	10.0	ug/L
Selenium	7782-49-2	2.81 I	1.50	10.0	ug/L
Silver	7440-22-4	0.330 U	0.330	0.500	ug/L
Sodium	7440-23-5	10700	192	500	ug/L
Thallium	7440-28-0	0.220 U	0.220	0.500	ug/L
Vanadium	7440-62-2	2.60 U	2.60	10.0	ug/L
Zinc	7440-66-6	100 U	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: MW-10  
 Lab #: A605885-06

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.11	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	6.8	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	1.1	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	350	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## ANALYTICAL REPORT

Sample ID: MW-11  
 Lab #: A606038-03  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 12/03/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6L03002

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	2.6 U	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: MW-11  
 Lab #: A606038-03  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 12/03/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6L03002

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Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	46	50.0	91 %	57.1-125
Dibromofluoromethane	1868-53-7	56	50.0	112 %	49.8-137
Toluene-d8	2037-26-5	46	50.0	92 %	87.6-125

## ANALYTICAL REPORT

Sample ID: MW-11  
 Lab #: A606038-03  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

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Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.015 U	0.015	0.020	ug/L
1,2-Dibromoethane	106-93-4	0.012 U	0.012	0.020	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
1,3-Dichlorobenzene	541-73-1	0.31	0.250	123 %	53.3-127

## ANALYTICAL REPORT

Sample ID: MW-11  
 Lab #: A606038-03

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6L02004

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	<b>563</b>	31.0	100	ug/L
Antimony	7440-36-0	7.60 U	7.60	50.0	ug/L
Arsenic	7440-38-2	9.80 U	9.80	100	ug/L
Barium	7440-39-3	13.0 U	13.0	1000	ug/L
Beryllium	7440-41-7	8.10 U	8.10	10.0	ug/L
Cadmium	7440-43-9	3.00 U	3.00	50.0	ug/L
Chromium	7440-47-3	12.0 U	12.0	100	ug/L
Cobalt	7440-48-4	2.60 U	2.60	100	ug/L
Copper	7440-50-8	6.30 U	6.30	100	ug/L
Iron	7439-89-6	<b>177</b>	6.70	100	ug/L
Lead	7439-92-1	1.70 U	1.70	100	ug/L
Manganese	7439-96-5	<b>20.0</b>	0.320	10.0	ug/L
Nickel	7440-02-0	<b>8.49</b>	4.70	100	ug/L
Selenium	7782-49-2	17.0 U	17.0	100	ug/L
Silver	7440-22-4	2.00 U	2.00	10.0	ug/L
Sodium	7440-23-5	<b>13400</b>	16.0	1000	ug/L
Thallium	7440-28-0	2.90 U	2.90	10.0	ug/L
Vanadium	7440-62-2	<b>9.03 I</b>	3.80	100	ug/L
Zinc	7440-66-6	19.0 U	19.0	1000	ug/L

## ANALYTICAL REPORT

Sample ID: MW-11  
 Lab #: A606038-03

Project: Sumter Co. Landfill  
 Work Order #: A606038  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003	U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01020
Chloride	16887-00-6	2.6		0.05	1.0	mg/L	EPA 300.0	NA	6L01023
Fluoride	16984-48-8	0.05	U	0.05	0.10	mg/L	EPA 300.0	NA	6L01023
Nitrate as N	NA	3.2		0.008	0.050	mg/L	EPA 300.0	NA	6L01023
Total Dissolved Solids	NA	370		10	10	mg/L	EPA 160.1	NO PREP	6L05024

3

## FIELD LOG

PROJ # \_\_\_\_\_

NAME: Date Claytor

PROJECT

NAME: Santa Clara LandfillDATE: 11/30/06

PROJECT

LOCATION: Santa Clara, FL

TIME	COMMENTS		
1005	On site. Brought in with off office Requested help with getting access to property on east side of landfill near MW-6A.		
1030	Ritchie took me to property owner and requested access to property.		
1050	On location MW-6A, p.-400 vs to calibrate field meter.		
1112	Calibrated field meters, see attached Calibration Log. Setting up down station.		
1137	Set up down station and descended WL probe and SS ESP ETW SEP-502 001/01, FL 1000. Preparing to sample MW-6A		
1256	Completed sampling MW-6A. Descended WL probe and SS ESP. Moving to MW-11.		
1340	On location MW-11, preparing to sample.		
1405	Completed sampling MW-11. Descended WL probe and SS ESP. Moving to MW-11.		
1410	On location MW-11, preparing to sample.		
1515	Completed sampling MW-11. Rinsing and packing up equipment.		
1530	Completed packing up equipment. Measured well water levels as follows:		
Well	WL (ft, b+oc)	Well	WL (ft, b+oc)
MW-1	27.81'	MW-7	30.43'
MW-2	26.55'	MW-8	25.61'
MW-3A	29.56'	MW-9	29.31'
MW-4	27.94'	MW-10	32.63'
MW-4A	33.15'	MW-11	25.66'
MW-4B	31.23'		
MW-6A	34.89'		
1610	Completed well water levels.		
1615	Turned in well logs, off site		

## GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL		DATE 11/30/06	
WELL NO MW-2	SAMPLE ID MW-2	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 Well Vol = ( 31.92' feet - 26.55' feet) X .16 gallons/foot = .8592 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 28' feet) + .125 gallons = .315 gallons					
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~28'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~28'	PURGING INITIATED AT:		PURGING ENDED AT:	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)
1335	.33	.33	.03	26.75	6.71
1337	.16	1.04	.03	26.73	6.69
1339	.16	1.20	.03	26.74	6.67
28.70, 32.7, 2.01, 4.46, Clear, None					
25.64, 33.3, 1.93, 3.11, Clear, None					
23.69, 33.7, 1.95, 1.31, 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, 6/16" = 0.004, 3/8" = 0.006, 1/2" = 0.010, 5/8" = 0.016					

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Clayton, Envirotech, LLC</b>	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1350				
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	MATERIAL CODE PE					
FIELD DECONTAMINATION <input checked="" type="checkbox"/> N	FIELD-FILTERED <input checked="" type="checkbox"/> N FILTER SIZE: .um Filtration Equipment Type:	DUPLICATE: Y <input checked="" type="checkbox"/>					
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)		
MW-2	2	PE	1 Ltr	HNO3	None	---	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2SO4	None	---	Total Ammonia
"	1	PE	250 mL	HNO3	None	---	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate,TDS
"		Various	Various	Various	None	---	Appendix I Parameters

## REMARKS

1324: Inserted 55 ESP and new 3/8" PE tubing to ~28' toe and began purging @ .03 gpm.

1327: WL 26.75 @ .03 gpm, water is clear.

1330: WL 26.74 @ .03 gpm, drawdown is stable.

1333: WL 26.73 @ .03 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): ± 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: 11/28/00									
PURGING DATA											
WELL 2" PVC DIAMETER (inches)	TUBING 3/8" DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH: feet to feet STATIC DEPTH 27.95' TO WATER (feet)	PURGE PUMP TYPE OR BAIRER ESP								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
<i>Well Vol</i> = ( 36.35' feet - 27.95' feet) X .16 gallons/foot = 1.344 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)	~ 30'	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	~ 30'								
PURGING INITIATED AT: 1631		PURGING ENDED AT: 1643	TOTAL VOLUME PURGED (gallons): 2.30								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (mS/cm)	DISSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1638	1.40	1.40	.2	28.45	7.19	27.23	633	.50	18.3	Clear	None
1640	1.4	1.80	.2	28.44	7.14	27.26	637	.45	14.3	Clear	None
1642	1.4	2.20	.2	28.43	7.12	27.28	635	.44	12.4	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

SAMPLED BY (PRINT) / AFFILIATION H. L. Clayton, Envirotech, LLC	SAMPLER(S) SIGNATURES <i>H. L. Clayton</i>	SAMPLING INITIATED AT: 1643	SAMPLING ENDED AT: 1652				
PUMP OR TUBING DEPTH IN WELL (feet)	~ 30'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	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 Filtration Equipment Type:	FILTER SIZE: <input type="checkbox"/> μm				
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-4	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2SO4	None	---	Ammonia
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS
"		Various	Various	Various	None	---	Appendix I Parameters

## REMARKS

1631: Inserted 38 ESP and new 3/8" PE tubing to ~ 30' 6 feet and began purging @ .2 gpm.

1634: WL 28.45' @ .2 gpm, water is clear.

1636: WL 28.45' @ .2 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 = Baier, BP = Bladder Pump, ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravely 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  $\pm$  0.2 units, Temperature  $\pm$  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  $\leq$  20 NTU, optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater).

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

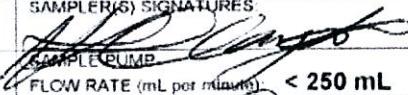
SITE NAME: <b>Sumter County Landfill</b>	SITE LOCATION: <b>Sumterville, FL</b>	
WELL NO: <b>MW-4A</b>	SAMPLE ID: <b>MW-4A</b>	DATE: <b>11/28/06</b>

**PURGING DATA**

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 33.13 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: <b>ESP</b>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( 45.23' 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 42' feet) = .125 gallons = .127 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~ 42'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~ 42'	PURGING INITIATED AT: 1533	PURGING ENDED AT: 1553	TOTAL VOLUME PURGED (gallons): 5							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1549	.4	.4	.25	33.21'	7.11	27.23	656	.29	11.6	Clear	None
1551	.5	4.5	.25	33.21'	7.08	27.24	657	.19	8.69	Clear	None
1553	.5	5	.25	33.21'	7.07	27.24	657	.17	6.74	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: <b>H. L. Clayton, Envirotech, LLC</b>	SAMPLER(S) SIGNATURES 	SAMPLING INITIATED AT: 1553	SAMPLING ENDED AT: 1602
PUMP OR TUBING DEPTH IN WELL (feet): ~ 42'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION <input checked="" type="checkbox"/> N	FIELD-FILTERED <input checked="" type="checkbox"/> N FILTER SIZE: <input type="text"/> μm Filtration Equipment Type: <input type="text"/>	DUPPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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-4A	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2S04	None	---	Total Ammonia
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS
"		Various	Various	Various	None	---	Appendix I Parameters

REMARKS:

1533: Inserted SS ESP and new 3/8" PE tubing to well. Started and began purging @ .25 gpm.  
1537: WL 33.21' @ .25 gpm, GW is turbid. Will purge until clear.  
1540: WL 33.21' @ .25 gpm, drawdown is stable. GW is slowly clearing up.  
1547: WL 33.21' @ .25 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: 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 62-100, 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 F5-2209-2), optionally, ± .02 mg/L or ± 10% (whichever is greater) Turbidity - all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

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

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	DATE: 11/23/04
WELL NO: MW-4B	SAMPLE ID: MW-4B	

**PURGING DATA**

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH (feet) to feet	STATIC DEPTH (feet) 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>Well Vol = 38.49' feet - 31.21' feet X .16 gallons/foot = 1.1648 gallons</i>											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
<i>1 Equip Vol = .02 gallons + (.006 gallons/foot X 33' feet) = .22 gallons</i>											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~33'	PURGING INITIATED AT: 1434	PURGING ENDED AT: 1450	TOTAL VOLUME PURGED (gallons): 2							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1444	1.25	1.25	.125	31.30	9.23	22.46	142	3.15	7.81	Clear	None
1446	.25	1.50	.125	31.29	9.23	22.59	152	2.73	7.92	Clear	None
1448	.25	1.75	.125	31.29	9.19	22.60	160	2.21	5.69	Clear	None
1450	.25	2	.125	31.29	9.16	22.65	163	2.50	3.92	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**

SAMPLED BY (PRINT) / AFFILIATION H. L. Claytor, Envirotech, LLC			SAMPLER'S SIGNATURES			SAMPLING INITIATED AT: 1451	SAMPLING ENDED AT: 1501
PUMP OR TUBING DEPTH IN WELL (feet): ~33'			SAMPLE PUMP FLOW RATE (ml per minute): < 250 mL			MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y N			FIELD-FILTERED: Y N 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-4B	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2S04	None	---	Total Ammonia
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS
"		Various	Various	Various	None	---	Appendix I Parameters

REMARKS

1434: Inserted 55 ESP and new 3/8" PE tubing to ~33' bfw and began purging @ 125 gpm.

1438: WL 31.32 @ 125 gpm, GW is clear.

1440: WL 31.31 @ 125 gpm, drawdown is stable.

1442: WL 31.30 @ 125 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 EQUIPMENT CODES:	APP = After Peristaltic Pump;	B = Baile,	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump	RFP = Reverse Flow Peristaltic Pump;	SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap;

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, ± 0.02 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-6A	SAMPLE ID: MW-6A	DATE: 11/30/06									
PURGING DATA											
WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH <u>34.89</u> 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									
		= ( 50.84' 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)		.02 gallons + (.006 gallons/foot X 38' feet) + .125 gallons = .375 gallons									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~47'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~47'	PURGING INITIATED AT: 1151	PURGING ENDED AT: 1228								
		TOTAL VOLUME PURGED (gallons): 4.50									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1223	4	4	.125	34.90	7.86	25.60	.245	4.85	14.6	Clear	None
1225	.25	4.25	.125	34.90	7.86	25.58	.245	4.66	12.8	Clear	None
1227	.25	4.50	.125	34.90	7.85	25.58	.244	4.29	12.6	Clear	None
<i>No stream</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: <b>H. L. Claytor, Envirotech, LLC</b>			SAMPLER(S)/SIGNATURES: <i>H. L. Claytor</i>		SAMPLING INITIATED AT: 1228	SAMPLING ENDED AT: 1239	
PUMP OR TUBING DEPTH IN WELL (feet): ~47'			SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	MATERIAL CODE: PE			
FIELD DECONTAMINATION: Y N			FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: <u>10</u> µm	DUPLICATE: 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-6A	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2SO4	None	---	Total Ammonia
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate,TDS
"		Various	Various	Various	None	---	Appendix I Parameters

## REMARKS:

1151: Inserted 55 ESP and new 318 PE tubing to ~47' 6" and began purging @ 125 3pm.

1155: WL 34.91 @ 125 3pm, GW is turbid (milky white). This well has a history of high turbidity. Will purge until clear.

1200: WL 34.90 @ 125 3pm, GW still turbid.

1211: WL 34.90 @ 125 3pm, drawdown is stable, GW still slightly turbid.

1221: WL 34.90 @ 125 3pm, 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 EQUIPMENT CODES:	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump	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  $\pm$  0.2 units; Temperature:  $\pm$  0.2 degrees C; Specific Conductance:  $\pm$  5%; Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2), optionally,  $\pm$  .02 mg/L or  $\pm$  10% (whichever is greater); Turbidity: all readings  $\leq$  20 NTU, optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater).

## GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-8	SAMPLE ID: MW-8
	DATE: 11/23/06

## 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)										
= ( 43.24' 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 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: 1223	PURGING ENDED AT: 1226	TOTAL VOLUME PURGED (gallons): 1.52						
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1223	1.2	1.2	25.63	7.30	24.91	383	2.36	9.35	Clear	None
1224	1.6	1.36	25.63	7.28	24.95	383	2.84	6.32	Clear	None
1226	1.6	1.52	25.63	5.23	24.96	382	2.72	4.90	Clear	None
<i>No shear</i>										
<i>Note: Organic particulate in GW.</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: <b>H. L. Claytor, Envirotech, LLC</b>	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1226	SAMPLING ENDED AT: 1238					
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N FILTER SIZE: <input checked="" type="checkbox"/> μm Filtration Equipment Type:		DUPPLICATE: Y <input checked="" type="checkbox"/>					
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-8	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	600 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP
"		Various	Various	Various	None	---	Appendix I Parameters	ESP

## REMARKS:

1223: Inserted SS ESP and new 3/8" PE tubing to ~40' btoc and began purging @ .08 gpm.

1224: NL 25.63 @ .08 gpm, GW is slightly turbid.

1226: NL 25.62 @ .08 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 EQUIPMENT CODES:	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump		

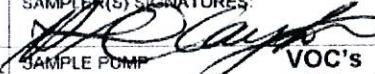
Notes: 1. The above do not constitute all the information required by Chapter 62-160 F.A.C.

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).

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

SITE NAME: <b>Sumter County Landfill</b>		SITE LOCATION: <b>Sumterville, FL</b>									
WELL NO: <b>MW-9A</b>	SAMPLE ID: <b>MW-9A</b>	DATE: <b>11/23/06</b>									
<b>PURGING DATA</b>											
<b>WELL 2" PVC</b> DIAMETER (inches):	<b>TUBING 3/8"</b> DIAMETER (inches):	<b>WELL SCREEN INTERVAL</b> DEPTH: feet to feet	<b>STATIC DEPTH</b> <b>31.62</b> <b>TO WATER (feet)</b> : feet								
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)		PURGE PUMP TYPE OR BAILER: <b>ESP</b>									
= ( <b>50.17'</b> feet - feet ) X gallons/foot = gallons											
<b>EQUIPMENT VOLUME PURGE:</b> 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
<b>1 Equip Vol</b> = .02 gallons + (.006 gallons/foot X <b>52'</b> feet) + .125 gallons = .58 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>~42'</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>~42'</b>	PURGING INITIATED AT: <b>1013</b>	PURGING ENDED AT: <b>1104</b> TOTAL VOLUME PURGED (gallons): <b>3.28</b>								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1100	2.76	2.76	.03	32.72	6.52	25.81	.952	.38	16.2	Clear	None
1102	3.12	3.12	.03	32.72	6.55	25.75	.940	.32	14.4	Clear	None
1104	3.73	3.73	.03	32.72	6.55	25.76	.918	.21	11.6	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; 6/8" = 0.016											

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Envirotech, LLC</b>		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: <b>1105</b>	SAMPLING ENDED AT: <b>1117</b>		
PUMP OR TUBING DEPTH IN WELL (feet): <b>~42'</b>		SAMPLE PUMP VOC's	FLOW RATE (mL per minute): < 100 mL	TUBING MATERIAL CODE: PE			
FIELD DECONTAMINATION: <b>Y</b> N		FIELD-FILTERED: <b>Y</b> <b>N</b> FILTER SIZE: <b>1 μm</b> Filtration Equipment Type: <b>None</b>			DUPPLICATE: <b>Y</b> <b>(N)</b>		
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-9A	2	PE	1 Ltr	HN03	None	--	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2SO4	None	--	Total Ammonia
"	1	PE	250 mL	HN03	None	--	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	--	Chloride,Fluoride, Nitrate, TDS
"		Various	Various	Various	None	--	Appendix I Parameters

REMARKS:

1013: Inserted ESP and new 3/8" PE tubing to ~42' boc and began purging @ .03 gpm.

1019: WL 32.72' @ .03 gpm, GW is slightly turbid. This well has a history of high turbidity. Will purge until clear.

1026: WL 32.72' @ .03 gpm, drawdown is stable. GW is still turbid, milky white.

1042: WL 32.72' @ .03 gpm, turbidity 49 NTU's. Continuing to purge.

1052: Turbidity 20.2, preparing to measure field parameters. WL 32.72'.

Notes: 1) Used a graduated 5 gallon bucket and lined 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  $\pm$  0.2 m/s; Temperature:  $\pm$  0.2 degrees C; Specific Conductance:  $\pm$  5%; Dissolved Oxygen - all readings  $\leq$  20% saturation (see Table FS 2200-2), optionally  $\pm$  .02 mg/L or  $\pm$  10% (whichever is greater); Turbidity: all readings  $\leq$  20 NTU, optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

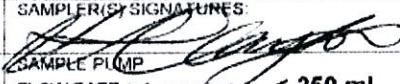
SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-10	SAMPLE ID: MW-10

DATE 11/23/06

## 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 (only fill out if applicable)											
1 Equip Vol	= .02 gallons + (.006 gallons/foot X 47' feet) + .125 gallons = .425 gallons										
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~42'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~42'	PURGING INITIATED AT: 1321	PURGING ENDED AT: 1354	TOTAL VOLUME PURGED (gallons): 5.25							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1350	4.64	4.64	.16	26.39	6.87	25.50	.601	1.41	18.3	Clear	None
1352	.32	4.96	.16	26.39	6.87	25.50	.600	1.33	17.0	Clear	None
1354	.32	5.28	.16	26.39	6.87	25.54	.601	1.32	13.2	Clear	None
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./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; 5/8" = 0.016											

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Envirotech, LLC</b>	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1406					
PUMP OR TUBING DEPTH IN WELL (feet): ~42'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: 1 μm Filtration Equipment Type:		DUPPLICATE: 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-10	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP
"	Various	Various	Various	Various	None	---	Appendix 1 Parameters	ESP

## REMARKS:

- 1321: Inserted 55 ESP and new 3/8" PE tubing to ~42' elev and began purging @ 16 gpm.
- 1324: WL 26.40' @ 16 gpm, GW is turbid.
- 1329: WL 26.41' @ 16 gpm, GW is clearing up. Drawdown is stabilizing.
- 1334: WL 26.43' @ 16 gpm, drawdown is stable. Turbidity @ 46 NTU's.
- 1341: WL 26.42' @ 16 gpm, turbidity 25 NTU's.
- 1346: WL 26.40' @ 16 gpm, turbidity 23 NTU's.

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 Gravely 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 &lt; 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-11	SAMPLE ID: MW-11

DATE: 11/30/06

## 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							
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( 40.15' feet - feet ) X gallons/foot = gallons											
<b>EQUIPMENT VOLUME PURGE:</b> 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 12' feet) + .125 gallons = .185 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~37'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~37'	PURGING INITIATED AT: 1420	PURGING ENDED AT: 1452	TOTAL VOLUME PURGED (gallons): 595							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1428	1	1	.125	27.73	6.31	26.73	.410	.31	25.6	Clear	None
1448	4.63	5.63	.08	27.73	6.64	26.62	.616	.29	7.24	Clear	None
1450	.16	5.79	.08	27.73	6.64	26.63	.603	.22	10.37	Clear	None
1452	.16	5.95	.08	27.73	6.62	26.70	.597	.19	11.2	Clear	None

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: <b>H. L. Clayton, Envirotech, LLC</b>	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1453	SAMPLING ENDED AT: 1503					
PUMP OR TUBING DEPTH IN WELL (feet): ~37'	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 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	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP
"		Various	Various	Various	None	---	Appendix I Parameters	ESP

## REMARKS:

1420: Inserted 55 ESP and new 3/8" PE tubing to ~37' static and began purging @ 125 gpm.

1424: WL 27.73' @ 125 gpm, GW is clear.

1426: WL 27.73' @ 125 gpm, drawdown is stable.

1430: Reduced flow to .08 gpm to help lower turbidity.

1433: Turbidity is slowly going up. Increased flow to .5 gpm.

1445: reduced flow to .08 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 EQUIPMENT CODES:	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump		

Notes: 1. The above do not constitute all the information required by Chapter 02-160, 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).

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## ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.  
Orlando, FL 32824  
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211  
Jacksonville, FL 32216-0069  
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way  
Cary, NC 27513  
(919) 677-1669 Fax (919) 677-9846

Page 1 of 1

Client Name Address City/ST/ZIP	Project Number PO # Billing Info	Requested Analyses										Requested Turnaround Times Note : Rush requests subject to acceptance by the facility		
		Standard	Expedited	Due / /	Lab Workorder									
<i>Colinas Group</i>	<i>Scatter Co. Landfill</i>													
<i>509 N. Virginia Ave.</i>														
<i>Winter Park, FL 32789</i>														
<i>Tel 407-633-8174</i>	<i>Fax 407-633-8196</i>	<i>Billing Contact</i>												
<i>Samper(s) Name, Affiliation (Print)</i>	<i>Rick Potts</i>	<i>Billing Contact</i>												
<i>Signer(s) Signature</i>	<i>H.L. Caylor</i>	<i>Facility # (if required)</i>												
Preservation (See Codes) (Combine as necessary)														
Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	I	IN	IS	I	IN	IH	I	Sample Comments
1	MW-4	1/28/06	1650	G	GW	10	X	X	X	X	X	X	X	
2	MW-4A	1/29	G	GW	10	X	X	X	X	X	X	X		
3	MW-4B	1/29	G	GW	10	X	X	X	X	X	X	X		
4	MW-8	1/23	G	GW	10	X	X	X	X	X	X	X		
5	MW-9A	1/17	G	GW	10	X	X	X	X	X	X	X		
6	MW-10	1/26	G	GW	10	X	X	X	X	X	X	X		
7	E&B	0920	G	EW	10	X	X	X	X	X	X	X		
<-- Total # of Containers														
Sample Kit Prepared By Comments	Date/Time <i>1/28/06 1345</i>	Received By <i>1010</i>	Received By <i>1010</i>	Date/Time <i>1/28/06 1345</i>	Received By <i>1010</i>									
Cooler #'s & Temps on Receipt <i>-7 01 STM 85 3 STM 42</i>														
Condition Upon Receipt <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Unacceptable														

Matrix : GW-Groundwater SO-Groundwater SE-Soil SW-Surface Water WW-Wastewater A-Air O-Oil Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Preservation: I-Ice H-HCl N-NH<sub>3</sub> S-H<sub>2</sub>SO<sub>4</sub> NO-NaOH O-Other (detail in comments)

Condition Upon Receipt  
 Accepted       Unacceptable



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

4810  
Jackson  
(904)  
110775 Central Port Dr.  
Orlando, FL 32824  
(407) 826-5314 Fax (407) 850-6945

1015 Passport Way  
Cary, NC 27513  
(919) 677-1669 Fax (919)

4810 Executive Park Court, Suite 211

Comments	L-20 20°C		
Sample Kit Prepared By	Date/Time	10/10/08 0800	
Relinquished By	Date/Time	10/10/08 0800	
Comments	Condition Upon Receipt	Acceptable	Unacceptable
Comments	Date/Time	10/10/08 15:34	
Comments	Date/Time	10/10/08 15:34	
Comments	Date/Time	10/10/08 15:34	

**Matrix** GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO<sub>3</sub> S-H<sub>2</sub>SO<sub>4</sub> NO-NaOH O-Other (detail in comments)

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Thursday, December 7, 2006

The Colinas Group (CO016)

Attn: Rick Potts

509 N. Virginia Ave.

Winter Park, FL 32789

**RE: Project Number: [none], Project Name/Desc: Sumter Co. Landfill  
ENCO Workorder: A605885**

Dear Rick Potts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, November 29, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Ronald Wambles  
Project Manager

Enclosure(s)

**SAMPLE SUMMARY/LABORATORY CHRONICLE**

**Client ID:** MW-4

**Lab ID:** A605885-01

**Sampled:** 11/28/06 16:52

**Received:** 11/29/06 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 16:52	11/29/06 17:44	11/30/2006 06:49
EPA 300.0	12/26/06	11/29/06 17:44	11/30/2006 06:49
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:09
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 18:56
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 19:41
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:30
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 09:24
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 16:07

**Client ID:** MW-4A

**Lab ID:** A605885-02

**Sampled:** 11/28/06 16:02

**Received:** 11/29/06 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 16:02	11/29/06 17:44	11/30/2006 05:17
EPA 300.0	12/26/06	11/29/06 17:44	11/30/2006 05:17
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:10
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 19:02
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 19:48
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:33
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 09:42
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 16:36

**Client ID:** MW-4B

**Lab ID:** A605885-03

**Sampled:** 11/28/06 15:01

**Received:** 11/29/06 10:10

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<b>Parameter</b>	<b>Hold Date/Time(s)</b>	<b>Prep Date/Time(s)</b>	<b>Analysis Date/Time(s)</b>
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 15:01	11/29/06 17:44	11/30/2006 04:30
EPA 300.0	12/26/06	11/29/06 17:44	11/30/2006 04:30
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:11
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 19:08
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 19:54
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:36
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 09:52
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 17:05

**Client ID:** MW-8

**Lab ID:** A605885-04

**Sampled:** 11/28/06 12:38

**Received:** 11/29/06 10:10

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<b>Parameter</b>	<b>Hold Date/Time(s)</b>	<b>Prep Date/Time(s)</b>	<b>Analysis Date/Time(s)</b>
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 12:38	11/29/06 17:44	11/30/2006 00:39
EPA 300.0	12/26/06	11/29/06 17:44	11/30/2006 00:39
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:14
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 19:18
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 20:59
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:39
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 10:03
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 17:35

**Client ID:** MW-9A

**Lab ID:** A605885-05

**Sampled:** 11/28/06 11:17
**Received:** 11/29/06 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 11:17	11/29/06 17:44	11/29/2006 23:52
EPA 300.0	12/26/06	11/29/06 17:44	11/29/2006 23:52
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:16
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 19:24
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 21:05
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:42
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 10:14
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 18:04

**Client ID:** MW-10

**Lab ID:** A605885-06

**Sampled:** 11/28/06 14:06
**Received:** 11/29/06 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 14:06	11/29/06 17:44	11/30/2006 02:34
EPA 300.0	12/26/06	11/29/06 17:44	11/30/2006 02:34
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:17
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 19:30
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 21:11
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:45
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 10:25
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 18:33

Client ID: EQB

Lab ID: A605885-07

Sampled: 11/28/06 09:20

Received: 11/29/06 10:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/05/06	11/30/06 21:50	12/4/2006 17:12
EPA 300.0	11/30/06 09:20	11/29/06 17:44	11/29/2006 23:06
EPA 300.0	12/26/06	11/29/06 17:44	11/29/2006 23:06
EPA 350.1	12/26/06	12/01/06 14:57	12/7/2006 12:18
EPA 6020	05/27/07	11/29/06 14:25	12/2/2006 15:44
EPA 6020	05/27/07	11/29/06 14:25	12/3/2006 17:48
EPA 7470A	12/26/06	11/29/06 13:57	12/1/2006 09:11
EPA 8011	12/12/06	12/04/06 12:19	12/6/2006 10:36
EPA 8260B	12/12/06	11/30/06 11:48	11/30/2006 19:03

Tuesday, December 12, 2006

The Colinas Group (CO016)

Attn: Rick Potts

509 N. Virginia Ave.

Winter Park, FL 32789

**RE: Project Number: [none], Project Name/Desc: Sumter Co. Landfill  
ENCO Workorder: A606038**

Dear Rick Potts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, December 1, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



David Camacho For Ronald Wambles  
Project Manager

Enclosure(s)

### SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID:** MW-2

**Lab ID:** A606038-01

**Sampled:** 11/30/06 13:50

**Received:** 12/01/06 16:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/07/06	12/05/06 19:32	12/6/2006 17:50
EPA 300.0	12/02/06 13:50	12/01/06 15:28	12/12/2006 04:53
EPA 300.0	12/28/06	12/01/06 15:28	12/2/2006 10:22
EPA 350.1	12/28/06	12/05/06 11:29	12/7/2006 12:54
EPA 6020	05/29/07	12/04/06 15:06	12/7/2006 21:35
EPA 6020	05/29/07	12/04/06 15:06	12/8/2006 22:42
EPA 7470A	12/28/06	12/06/06 10:55	12/8/2006 09:22
EPA 8011	12/14/06	12/04/06 12:19	12/6/2006 10:57
EPA 8260B	12/14/06	12/03/06 10:08	12/3/2006 11:49

**Client ID:** MW-6A

**Lab ID:** A606038-02

**Sampled:** 11/30/06 12:39

**Received:** 12/01/06 16:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/07/06	12/04/06 18:38	12/5/2006 17:20
EPA 300.0	12/02/06 12:39	12/01/06 15:28	12/2/2006 10:07
EPA 300.0	12/28/06	12/01/06 15:28	12/2/2006 10:07
EPA 350.1	12/28/06	12/05/06 11:29	12/7/2006 13:00
EPA 6020	05/29/07	12/04/06 15:06	12/7/2006 21:41
EPA 6020	05/29/07	12/04/06 15:06	12/8/2006 22:48
EPA 7470A	12/28/06	12/06/06 10:55	12/8/2006 09:25
EPA 8011	12/14/06	12/04/06 12:19	12/6/2006 11:08
EPA 8260B	12/14/06	12/03/06 10:08	12/3/2006 12:18

Client ID: MW-11

Lab ID: A606038-03

Sampled: 11/30/06 15:03

Received: 12/01/06 16:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	12/07/06	12/05/06 19:32	12/6/2006 17:50
EPA 300.0	12/02/06 15:03	12/01/06 15:28	12/2/2006 11:03
EPA 300.0	12/28/06	12/01/06 15:28	12/2/2006 11:03
EPA 350.1	12/28/06	12/05/06 11:29	12/7/2006 13:02
EPA 6020	05/29/07	12/04/06 15:06	12/7/2006 21:47
EPA 6020	05/29/07	12/04/06 15:06	12/8/2006 22:54
EPA 7470A	12/28/06	12/06/06 10:55	12/8/2006 09:28
EPA 8011	12/14/06	12/05/06 00:00	12/6/2006 11:19
EPA 8260B	12/14/06	12/03/06 10:08	12/3/2006 12:48

### SAMPLE DETECTION SUMMARY

**Client ID: MW-2**

Analyte

Aluminum	229	100	ug/L	EPA 6020
Barium	18.2 I	1000	ug/L	EPA 6020
Chloride	4.3	1.0	mg/L	EPA 300.0
Fluoride	0.05 I	0.10	mg/L	EPA 300.0
Iron	93.0 I	100	ug/L	EPA 6020
Manganese	11.4	10.0	ug/L	EPA 6020
Nitrate as N	12 Q, D	0.10	mg/L	EPA 300.0
Sodium	3740	1000	ug/L	EPA 6020
Total Dissolved Solids	260	10	mg/L	EPA 160.1

**Client ID: MW-6A**

Analyte

Aluminum	98.0 I	100	ug/L	EPA 6020
Chloride	5.3	1.0	mg/L	EPA 300.0
Fluoride	0.05 I	0.10	mg/L	EPA 300.0
Iron	43.6 I	100	ug/L	EPA 6020
Nickel	5.64	100	ug/L	EPA 6020
Nitrate as N	4.6	0.050	mg/L	EPA 300.0
Sodium	3410	1000	ug/L	EPA 6020
Total Dissolved Solids	180	10	mg/L	EPA 160.1
Vanadium	6.00 I	100	ug/L	EPA 6020

**Client ID: MW-11**

Analyte

Aluminum	563	100	ug/L	EPA 6020
Chloride	2.6	1.0	mg/L	EPA 300.0
Iron	177	100	ug/L	EPA 6020
Manganese	20.0	10.0	ug/L	EPA 6020
Nickel	8.49	100	ug/L	EPA 6020
Nitrate as N	3.2	0.050	mg/L	EPA 300.0
Sodium	13400	1000	ug/L	EPA 6020
Total Dissolved Solids	370	10	mg/L	EPA 160.1
Vanadium	9.03 I	100	ug/L	EPA 6020

**Lab ID: A606038-01**

Results/Qual	MRL	Units	Method
229	100	ug/L	EPA 6020
18.2 I	1000	ug/L	EPA 6020
4.3	1.0	mg/L	EPA 300.0
0.05 I	0.10	mg/L	EPA 300.0
93.0 I	100	ug/L	EPA 6020
11.4	10.0	ug/L	EPA 6020
12 Q, D	0.10	mg/L	EPA 300.0
3740	1000	ug/L	EPA 6020
260	10	mg/L	EPA 160.1

**Lab ID: A606038-02**

Results/Qual	MRL	Units	Method
98.0 I	100	ug/L	EPA 6020
5.3	1.0	mg/L	EPA 300.0
0.05 I	0.10	mg/L	EPA 300.0
43.6 I	100	ug/L	EPA 6020
5.64	100	ug/L	EPA 6020
4.6	0.050	mg/L	EPA 300.0
3410	1000	ug/L	EPA 6020
180	10	mg/L	EPA 160.1
6.00 I	100	ug/L	EPA 6020

**Lab ID: A606038-03**

Results/Qual	MRL	Units	Method
563	100	ug/L	EPA 6020
2.6	1.0	mg/L	EPA 300.0
177	100	ug/L	EPA 6020
20.0	10.0	ug/L	EPA 6020
8.49	100	ug/L	EPA 6020
3.2	0.050	mg/L	EPA 300.0
13400	1000	ug/L	EPA 6020
370	10	mg/L	EPA 160.1
9.03 I	100	ug/L	EPA 6020

### SAMPLE DETECTION SUMMARY

**Client ID: MW-4**

Analyte

	Lab ID: A605885-01	Results/Qual	MRL	Units	Method
Aluminum	301	100	ug/L	EPA 6020	
Antimony	3.87 I	5.00	ug/L	EPA 6020	
Chloride	8.1	1.0	mg/L	EPA 300.0	
Chromium	16.3	10.0	ug/L	EPA 6020	
Iron	130	100	ug/L	EPA 6020	
Nickel	8.84	10.0	ug/L	EPA 6020	
Nitrate as N	4.6	0.050	mg/L	EPA 300.0	
Selenium	2.77 I	10.0	ug/L	EPA 6020	
Sodium	46400	500	ug/L	EPA 6020	
Total Dissolved Solids	360	10	mg/L	EPA 160.1	
Vanadium	9.54 I	10.0	ug/L	EPA 6020	

**Client ID: MW-4A**

Analyte

	Lab ID: A605885-02	Results/Qual	MRL	Units	Method
Aluminum	119	100	ug/L	EPA 6020	
Antimony	3.68 I	5.00	ug/L	EPA 6020	
Chloride	23	1.0	mg/L	EPA 300.0	
Chromium	7.79 I	10.0	ug/L	EPA 6020	
Iron	52.3 I	100	ug/L	EPA 6020	
Nickel	5.39	10.0	ug/L	EPA 6020	
Nitrate as N	9.2	0.050	mg/L	EPA 300.0	
Selenium	2.54 I	10.0	ug/L	EPA 6020	
Sodium	32600	500	ug/L	EPA 6020	
Total Dissolved Solids	390	10	mg/L	EPA 160.1	
Vanadium	4.35 I	10.0	ug/L	EPA 6020	

**Client ID: MW-4B**

Analyte

	Lab ID: A605885-03	Results/Qual	MRL	Units	Method
Aluminum	736	100	ug/L	EPA 6020	
Antimony	3.73 I	5.00	ug/L	EPA 6020	
Chloride	3.5	1.0	mg/L	EPA 300.0	
Chromium	8.65 I	10.0	ug/L	EPA 6020	
Nitrate as N	0.96	0.050	mg/L	EPA 300.0	
Selenium	2.83 I	10.0	ug/L	EPA 6020	
Sodium	13100	500	ug/L	EPA 6020	
Total Dissolved Solids	130	10	mg/L	EPA 160.1	
Vanadium	37.5	10.0	ug/L	EPA 6020	

**Client ID: MW-8**

Analyte

	Lab ID: A605885-04	Results/Qual	MRL	Units	Method
Ammonia as N	0.044	0.020	mg/L	EPA 350.1	
Antimony	3.23 I	5.00	ug/L	EPA 6020	
Chloride	6.6	1.0	mg/L	EPA 300.0	

Iron	56.5	I	100	ug/L	EPA 6020
Nitrate as N	2.3		0.050	mg/L	EPA 300.0
Selenium	2.88	I	10.0	ug/L	EPA 6020
Sodium	5760		500	ug/L	EPA 6020
Total Dissolved Solids	210		10	mg/L	EPA 160.1
Vanadium	6.32	I	10.0	ug/L	EPA 6020

**Client ID: MW-9A****Analyte**

Aluminum	129		100	ug/L	EPA 6020
Ammonia as N	0.33		0.020	mg/L	EPA 350.1
Antimony	3.33	I	5.00	ug/L	EPA 6020
Chloride	16		1.0	mg/L	EPA 300.0
Cobalt	40.1		10.0	ug/L	EPA 6020
Iron	567		100	ug/L	EPA 6020
Manganese	103		10.0	ug/L	EPA 6020
Mercury	0.62		0.20	ug/L	EPA 7470A
Nickel	15.8		10.0	ug/L	EPA 6020
Nitrate as N	0.51		0.050	mg/L	EPA 300.0
Selenium	2.48	I	10.0	ug/L	EPA 6020
Sodium	16900		500	ug/L	EPA 6020
Total Dissolved Solids	520		10	mg/L	EPA 160.1
Vanadium	8.87	I	10.0	ug/L	EPA 6020

**Client ID: MW-10****Analyte**

Aluminum	360		100	ug/L	EPA 6020
Ammonia as N	0.11		0.020	mg/L	EPA 350.1
Antimony	3.20	I	5.00	ug/L	EPA 6020
Barium	13.7	I	100	ug/L	EPA 6020
Chloride	6.8		1.0	mg/L	EPA 300.0
Iron	2710		100	ug/L	EPA 6020
Manganese	51.1		10.0	ug/L	EPA 6020
Nickel	3.21		10.0	ug/L	EPA 6020
Nitrate as N	1.1		0.050	mg/L	EPA 300.0
Selenium	2.81	I	10.0	ug/L	EPA 6020
Sodium	10700		500	ug/L	EPA 6020
Total Dissolved Solids	350		10	mg/L	EPA 160.1

**Client ID: EQB****Analyte**

Acetone	11		5.0	ug/L	EPA 8260B
Antimony	3.40	I	5.00	ug/L	EPA 6020
Chloride	0.18	I	1.0	mg/L	EPA 300.0
Mercury	0.12	I	0.20	ug/L	EPA 7470A
Nitrate as N	0.84		0.050	mg/L	EPA 300.0
Selenium	2.50	I	10.0	ug/L	EPA 6020
Sodium	258	I	500	ug/L	EPA 6020

## ANALYTICAL REPORT

Sample ID:	EQB	Project:	Sumter Co. Landfill
Lab #:	A605885-07	Work Order #:	A605885
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	11/30/06 By: kat	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6K30018		

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### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.24 U	0.24	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.88 U	0.88	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.44 U	0.44	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.60 U	0.60	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.83 U	0.83	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.27 U	0.27	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.94 U	0.94	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.97 U	0.97	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.24 U	0.24	1.0	ug/L
2-Butanone	78-93-3	1.0 U	1.0	5.0	ug/L
2-Hexanone	591-78-6	2.1 U	2.1	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	1.6 U	1.6	5.0	ug/L
Acetone	67-64-1	11	2.6	5.0	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	2.0	ug/L
Benzene	71-43-2	0.48 U	0.48	1.0	ug/L
Bromochloromethane	74-97-5	0.93 U	0.93	1.0	ug/L
Bromodichloromethane	75-27-4	0.22 U	0.22	0.40	ug/L
Bromoform	75-25-2	0.48 U	0.48	1.0	ug/L
Bromomethane	74-83-9	0.80 U	0.80	1.0	ug/L
Carbon disulfide	75-15-0	0.97 U	0.97	5.0	ug/L
Carbon tetrachloride	56-23-5	0.85 U	0.85	1.0	ug/L
Chlorobenzene	108-90-7	0.21 U	0.21	1.0	ug/L
Chloroethane	75-00-3	0.66 U	0.66	1.0	ug/L
Chloroform	67-66-3	0.89 U	0.89	1.0	ug/L
Chloromethane	74-87-3	0.82 U	0.82	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.75 U	0.75	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.42 U	0.42	1.0	ug/L
Ethylbenzene	100-41-4	0.99 U	0.99	1.0	ug/L
Iodomethane	74-88-4	0.81 U	0.81	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.55 U	0.55	2.0	ug/L
Methylene chloride	75-09-2	1.0 U	1.0	2.0	ug/L
o-Xylene	95-47-6	0.60 U	0.60	1.0	ug/L

## ANALYTICAL REPORT

Sample ID: EQB  
 Lab #: A605885-07  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 11/30/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6K30018

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.19 U	0.19	1.0	ug/L
Tetrachloroethene	127-18-4	0.65 U	0.65	1.0	ug/L
Toluene	108-88-3	0.25 U	0.25	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.83 U	0.83	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.61 U	0.61	1.0	ug/L
Trichloroethene	79-01-6	0.71 U	0.71	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.70 U	0.70	1.0	ug/L
Vinyl acetate	108-05-4	0.20 U	0.20	1.0	ug/L
Vinyl chloride	75-01-4	0.52 U	0.52	1.0	ug/L
Xylenes (Total)	1330-20-7	0.60 U	0.60	1.0	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
4-Bromofluorobenzene	460-00-4	46	50.0	92 %	57.1-125
Dibromofluoromethane	1868-53-7	50	50.0	101 %	49.8-137
Toluene-d8	2037-26-5	45	50.0	90 %	87.6-125

## ANALYTICAL REPORT

Sample ID: EQB  
 Lab #: A605885-07  
 Prep. Method: EPA 504/8011  
 Analyzed: 12/06/06 By: RB/  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6L04017

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Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.0150 U	0.0150	0.0200	ug/L
1,2-Dibromoethane	106-93-4	0.0120 U	0.0120	0.0200	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.241	0.250	96 %	53.3-127

## ANALYTICAL REPORT

Sample ID: EQB  
 Lab #: A605885-07

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
<b>Mercury</b>	7439-97-6	<b>0.12 I</b>	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6K29013

### **Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	86.7 U	86.7	100	ug/L
<b>Antimony</b>	7440-36-0	<b>3.40 I</b>	2.10	5.00	ug/L
Arsenic	7440-38-2	2.00 U	2.00	10.0	ug/L
Barium	7440-39-3	11.7 U	11.7	100	ug/L
Beryllium	7440-41-7	0.500 U	0.500	0.500	ug/L
Cadmium	7440-43-9	1.70 U	1.70	5.00	ug/L
Chromium	7440-47-3	6.20 U	6.20	10.0	ug/L
Cobalt	7440-48-4	0.410 U	0.410	10.0	ug/L
Copper	7440-50-8	3.10 U	3.10	5.00	ug/L
Iron	7439-89-6	35.8 U	35.8	100	ug/L
Lead	7439-92-1	2.80 U	2.80	10.0	ug/L
Manganese	7439-96-5	0.440 U	0.440	10.0	ug/L
Nickel	7440-02-0	2.60 U	2.60	10.0	ug/L
<b>Selenium</b>	7782-49-2	<b>2.50 I</b>	1.50	10.0	ug/L
Silver	7440-22-4	0.330 U	0.330	0.500	ug/L
<b>Sodium</b>	7440-23-5	<b>258 I</b>	192	500	ug/L
Thallium	7440-28-0	0.220 U	0.220	0.500	ug/L
Vanadium	7440-62-2	2.60 U	2.60	10.0	ug/L
Zinc	7440-66-6	100 U	100	100	ug/L

## ANALYTICAL REPORT

Sample ID: EQB  
 Lab #: A605885-07

Project: Sumter Co. Landfill  
 Work Order #: A605885  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.020	mg/L	EPA 350.1	NO PREP	6L01018
Chloride	16887-00-6	<b>0.18</b> I	0.05	1.0	mg/L	EPA 300.0	NA	6K29022
Fluoride	16984-48-8	0.05 U	0.05	0.10	mg/L	EPA 300.0	NA	6K29022
Nitrate as N	NA	<b>0.84</b>	0.008	0.050	mg/L	EPA 300.0	NA	6K29022
Total Dissolved Solids	NA	10 U	10	10	mg/L	EPA 160.1	NO PREP	6K30030

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Volatile Organic Compounds by GCMS - Quality Control

Batch 6L03002 - EPA 5030B\_MS

Prepared: 12/03/2006 10:08 Analyzed: 12/03/2006 10:21

#### Blank (6L03002-BLK1)

1,1,1,2-Tetrachloroethane	0.24 U	1.0	ug/L
1,1,1-Trichloroethane	0.88 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.20 U	0.20	ug/L
1,1,2-Trichloroethane	0.44 U	1.0	ug/L
1,1-Dichloroethane	0.60 U	1.0	ug/L
1,1-Dichloroethene	0.83 U	1.0	ug/L
1,2,3-Trichloropropane	0.34 U	1.0	ug/L
1,2-Dichlorobenzene	0.27 U	1.0	ug/L
1,2-Dichloroethane	0.94 U	1.0	ug/L
1,2-Dichloropropane	0.97 U	1.0	ug/L
1,4-Dichlorobenzene	0.24 U	1.0	ug/L
2-Butanone	1.0 U	5.0	ug/L
2-Hexanone	2.1 U	5.0	ug/L
4-Methyl-2-pentanone	1.6 U	5.0	ug/L
Acetone	2.6 U	5.0	ug/L
Acrylonitrile	1.7 U	2.0	ug/L
Benzene	0.48 U	1.0	ug/L
Bromochloromethane	0.93 U	1.0	ug/L
Bromodichloromethane	0.22 U	0.40	ug/L
Bromoform	0.48 U	1.0	ug/L
Bromomethane	0.80 U	1.0	ug/L
Carbon disulfide	0.97 U	5.0	ug/L
Carbon tetrachloride	0.85 U	1.0	ug/L
Chlorobenzene	0.21 U	1.0	ug/L
Chloroethane	0.66 U	1.0	ug/L
Chloroform	0.89 U	1.0	ug/L
Chloromethane	0.82 U	1.0	ug/L
cis-1,2-Dichloroethene	0.75 U	1.0	ug/L
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L
Dibromochloromethane	0.20 U	0.20	ug/L
Dibromomethane	0.42 U	1.0	ug/L
Ethylbenzene	0.99 U	1.0	ug/L
Iodomethane	0.81 U	3.0	ug/L
m,p-Xylenes	0.55 U	2.0	ug/L
Methylene chloride	1.0 U	2.0	ug/L
o-Xylene	0.60 U	1.0	ug/L
Styrene	0.19 U	1.0	ug/L
Tetrachloroethene	0.65 U	1.0	ug/L
Toluene	0.25 U	1.0	ug/L
trans-1,2-Dichloroethene	0.83 U	1.0	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
trans-1,4-Dichloro-2-butene	0.61 U	1.0	ug/L
Trichloroethene	0.71 U	1.0	ug/L
Trichlorofluoromethane	0.70 U	1.0	ug/L
Vinyl acetate	0.20 U	1.0	ug/L

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Volatile Organic Compounds by GCMS - Quality Control**
*Batch 6L03002 - EPA 5030B\_MS*
**Blank (6L03002-BLK1) Continued**

Vinyl chloride	0.52 U	1.0	ug/L							
Xylenes (Total)	0.60 U	1.0	ug/L							
<i>Surrogate: Toluene-d8</i>	45		ug/L	50.0		90	87.6-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	43		ug/L	50.0		86	57.1-125			
<i>Surrogate: Dibromofluoromethane</i>	52		ug/L	50.0		103	49.8-137			

**Semivolatile Organic Compounds by GC - Quality Control**
*Batch 6L04017 - EPA 504/8011*
**Blank (6L04017-BLK1)**

1,2-Dibromoethane	0.012 U	0.020	ug/L							
1,2-Dibromo-3-chloropropane	0.015 U	0.020	ug/L							
<i>Surrogate: 1,3-Dichlorobenzene</i>	0.24		ug/L	0.250		94	53.3-127			

**LCS (6L04017-BS1)**

1,2-Dibromoethane	0.26	0.020	ug/L	0.250		104	56.3-121			
1,2-Dibromo-3-chloropropane	0.29	0.020	ug/L	0.250		116	65.7-152			
<i>Surrogate: 1,3-Dichlorobenzene</i>	0.24		ug/L	0.250		95	53.3-127			

**Matrix Spike (6L04017-MS1)**

1,2-Dibromoethane	0.31 QM-07	0.020	ug/L	0.250	0.012 U	123	56.3-121			QM-07
1,2-Dibromo-3-chloropropane	0.32	0.020	ug/L	0.250	0.015 U	128	65.7-152			
<i>Surrogate: 1,3-Dichlorobenzene</i>	0.25		ug/L	0.250		98	53.3-127			
<b>Matrix Spike Dup (6L04017-MSD1)</b>				<b>Source: A605170-01</b>						
1,2-Dibromoethane	0.31 QM-07	0.020	ug/L	0.250	0.012 U	123	56.3-121	0.6	18.6	QM-07
1,2-Dibromo-3-chloropropane	0.32	0.020	ug/L	0.250	0.015 U	127	65.7-152	0.4	25.3	
<i>Surrogate: 1,3-Dichlorobenzene</i>	0.23		ug/L	0.250		93	53.3-127			

**Metals by EPA 6000/7000 Series Methods - Quality Control**
*Batch 6L02004 - EPA 7470A*
**Blank (6L02004-BLK1)**

Mercury	0.11 U	0.20	ug/L							
<b>LCS (6L02004-BS1)</b>				<b>Source: A605692-01</b>						

**Mercury**

Mercury	4.9	0.20	ug/L	5.00		98	93-111			
<b>Matrix Spike (6L02004-MS1)</b>				<b>Source: A605692-01</b>						
Mercury	5.2	0.20	ug/L	5.00	0.11 U	103	85-115			

**Matrix Spike Dup (6L02004-MSD1)**

Mercury	5.1	0.20	ug/L	5.00	0.11 U	102	85-115	0.5	12	
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*Batch 6L04019 - EPA 3005A*
**Blank (6L04019-BLK1)**

Aluminum	31.0 U	100	ug/L							
Antimony	7.60 U	50.0	ug/L							
Arsenic	9.80 U	100	ug/L							
Barium	13.0 U	1000	ug/L							

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**
*Batch 6L04019 - EPA 3005A*
**Blank (6L04019-BLK1) Continued**

Beryllium	8.10 U	10.0	ug/L
Cadmium	3.00 U	50.0	ug/L
Chromium	12.0 U	100	ug/L
Cobalt	2.60 U	100	ug/L
Copper	6.30 U	100	ug/L
Iron	6.70 U	100	ug/L
Lead	1.70 U	100	ug/L
Manganese	0.320 U	10.0	ug/L
Nickel	4.70 U	100	ug/L
Selenium	17.0 U	100	ug/L
Silver	2.00 U	10.0	ug/L
Sodium	16.0 U	1000	ug/L
Thallium	2.90 U	10.0	ug/L
Vanadium	3.80 U	100	ug/L
Zinc	19.0 U	1000	ug/L

Prepared: 12/04/2006 15:06 Analyzed: 12/05/2006 16:11

**LCS (6L04019-BS1)**

Aluminum	478	100	ug/L	500	96	85-115
Antimony	525	50.0	ug/L	500	105	85-115
Arsenic	489	100	ug/L	500	98	85-115
Barium	504 I	1000	ug/L	500	101	85-115
Beryllium	497	10.0	ug/L	500	99	85-115
Cadmium	494	50.0	ug/L	500	99	85-115
Chromium	529	100	ug/L	500	106	85-115
Cobalt	507	100	ug/L	500	101	85-115
Copper	512	100	ug/L	500	102	85-115
Iron	545	100	ug/L	500	109	85-115
Lead	505	100	ug/L	500	101	85-115
Manganese	527	10.0	ug/L	500	105	85-115
Nickel	516	100	ug/L	500	103	85-115
Selenium	492	100	ug/L	500	98	85-115
Silver	50.5	10.0	ug/L	50.0	101	85-115
Sodium	5450	1000	ug/L	5000	109	85-115
Thallium	501	10.0	ug/L	500	100	85-115
Vanadium	500	100	ug/L	500	100	85-115
Zinc	490 I	1000	ug/L	500	98	85-115

Prepared: 12/04/2006 15:06 Analyzed: 12/05/2006 16:22

**Matrix Spike (6L04019-MS1)**

Aluminum	499	100	ug/L	500	31.0 U	100	70-130
Antimony	539	50.0	ug/L	500	7.60 U	108	70-130
Arsenic	488	100	ug/L	500	9.80 U	98	70-130
Barium	511 I	1000	ug/L	500	13.0 U	102	70-130
Beryllium	501	10.0	ug/L	500	8.10 U	100	70-130
Cadmium	503	50.0	ug/L	500	3.00 U	101	70-130
Chromium	527	100	ug/L	500	12.0 U	105	70-130
Cobalt	502	100	ug/L	500	2.60 U	100	70-130
Copper	509	100	ug/L	500	6.30 U	102	70-130

Prepared: 12/04/2006 15:06 Analyzed: 12/05/2006 17:24

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 6L04019 - EPA 3005A

**Matrix Spike (6L04019-MS1) Continued**      Source: A605692-01      Prepared: 12/04/2006 15:06 Analyzed: 12/05/2006 17:24

Iron	540	100	ug/L	500	6.70 U	108	70-130
Lead	504	100	ug/L	500	1.70 U	101	70-130
Manganese	513	10.0	ug/L	500	0.320 U	103	70-130
Nickel	506	100	ug/L	500	4.70 U	101	70-130
Selenium	479	100	ug/L	500	17.0 U	96	70-130
Silver	51.9	10.0	ug/L	50.0	2.00 U	104	70-130
Sodium	5480	1000	ug/L	5000	16.0 U	110	70-130
Thallium	504	10.0	ug/L	500	2.90 U	101	70-130
Vanadium	514	100	ug/L	500	3.80 U	103	70-130
Zinc	489 I	1000	ug/L	500	19.0 U	98	70-130

**Matrix Spike Dup (6L04019-MSD1)**      Source: A605692-01      Prepared: 12/04/2006 15:06 Analyzed: 12/05/2006 17:33

Aluminum	506	100	ug/L	500	31.0 U	101	70-130	1	20
Antimony	554	50.0	ug/L	500	7.60 U	111	70-130	3	20
Arsenic	484	100	ug/L	500	9.80 U	97	70-130	0.7	20
Barium	519 I	1000	ug/L	500	13.0 U	104	70-130	1	20
Beryllium	499	10.0	ug/L	500	8.10 U	100	70-130	0.5	20
Cadmium	501	50.0	ug/L	500	3.00 U	100	70-130	0.4	20
Chromium	499	100	ug/L	500	12.0 U	100	70-130	6	20
Cobalt	497	100	ug/L	500	2.60 U	99	70-130	1	20
Copper	504	100	ug/L	500	6.30 U	101	70-130	0.9	20
Iron	529	100	ug/L	500	6.70 U	106	70-130	2	20
Lead	500	100	ug/L	500	1.70 U	100	70-130	0.8	20
Manganese	515	10.0	ug/L	500	0.320 U	103	70-130	0.3	20
Nickel	505	100	ug/L	500	4.70 U	101	70-130	0.1	20
Selenium	486	100	ug/L	500	17.0 U	97	70-130	1	20
Silver	51.8	10.0	ug/L	50.0	2.00 U	104	70-130	0.3	20
Sodium	5310	1000	ug/L	5000	16.0 U	106	70-130	3	20
Thallium	498	10.0	ug/L	500	2.90 U	100	70-130	1	20
Vanadium	515	100	ug/L	500	3.80 U	103	70-130	0.2	20
Zinc	490 I	1000	ug/L	500	19.0 U	98	70-130	0.3	20

**Post Spike (6L04019-PS1)**      Source: A605692-01      Prepared: 12/05/2006 12:23 Analyzed: 12/05/2006 17:41

Aluminum	56.2	10.0	ug/L	49.5	1.26	111	75-125
Antimony	53.8	5.00	ug/L	49.5	0.327	108	75-125
Arsenic	47.7	10.0	ug/L	49.5	0.164	96	75-125
Barium	49.7	100	ug/L	49.5	-0.335	101	75-125
Beryllium	49.0	1.00	ug/L	49.5	-0.043	99	75-125
Cadmium	48.9	5.00	ug/L	49.5	-0.066	99	75-125
Chromium	51.5	10.0	ug/L	49.5	0.146	104	75-125
Cobalt	49.9	10.0	ug/L	49.5	-0.027	101	75-125
Copper	50.2	10.0	ug/L	49.5	-0.051	102	75-125
Iron	52.9	10.0	ug/L	49.5	-0.069	107	75-125
Lead	50.3	10.0	ug/L	49.5	-0.055	102	75-125
Manganese	51.1	1.00	ug/L	49.5	-0.204	104	75-125
Nickel	50.1	10.0	ug/L	49.5	-0.179	102	75-125
Selenium	48.7	10.0	ug/L	49.5	0.215	98	75-125

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 6L04019 - EPA 3005A

Post Spike (6L04019-PS1) Continued	Source: A605692-01			Prepared: 12/05/2006 12:23 Analyzed: 12/05/2006 17:41					
Silver	5.02	1.00	ug/L	4.95	0.033	101	75-125		
Sodium	529	100	ug/L	495	-13.8	110	75-125		
Thallium	50.3	1.00	ug/L	49.5	-0.005	102	75-125		
Vanadium	50.1	10.0	ug/L	49.5	-0.125	101	75-125		
Zinc	49.0	100	ug/L	49.5	0.592	98	75-125		

### Classical Chemistry Parameters - Quality Control

Batch 6L01020 - NO PREP

Blank (6L01020-BLK1)	Prepared: 12/01/2006 15:07 Analyzed: 12/07/2006 12:42					
Ammonia as N	0.003 U	0.020	mg/L			
LCS (6L01020-BS1)				Prepared: 12/01/2006 15:07 Analyzed: 12/07/2006 12:52		
Ammonia as N	0.91	0.020	mg/L	1.00	91 90-110	
Matrix Spike (6L01020-MS1)			Source: A606038-01	Prepared: 12/01/2006 15:07 Analyzed: 12/07/2006 12:56		
Ammonia as N	0.82 QL-01	0.020	mg/L	1.00 0.003 U	82 90-110	QL-01
Matrix Spike Dup (6L01020-MSD1)			Source: A606038-01	Prepared: 12/01/2006 15:07 Analyzed: 12/07/2006 12:57		
Ammonia as N	0.81 QL-01	0.020	mg/L	1.00 0.003 U	81 90-110 0.4 10	QL-01

Batch 6L01023 - NA

Blank (6L01023-BLK1)	Prepared: 12/01/2006 15:28 Analyzed: 12/02/2006 06:13				
Nitrate as N	0.008 U	0.050	mg/L		
Fluoride	0.05 U	0.10	mg/L		
Chloride	0.05 U	1.0	mg/L		
LCS (6L01023-BS1)				Prepared: 12/01/2006 15:28 Analyzed: 12/02/2006 06:36	
Nitrate as N	4.6	0.050	mg/L	5.00	92 90-110
Fluoride	4.5	0.10	mg/L	5.00	91 90-110
Chloride	250	1.0	mg/L	250	99 90-110
Matrix Spike (6L01023-MS1)			Source: A605906-06	Prepared: 12/01/2006 15:28 Analyzed: 12/02/2006 06:58	
Nitrate as N	5.0	0.050	mg/L	5.10 0.008 U	98 90-110
Fluoride	4.7	0.10	mg/L	5.10 0.05 U	93 90-110
Chloride	260 QM-07	1.0	mg/L	255 26	90 90-110
Matrix Spike Dup (6L01023-MSD1)			Source: A605906-06	Prepared: 12/01/2006 15:28 Analyzed: 12/02/2006 07:21	
Nitrate as N	4.9	0.050	mg/L	5.10 0.008 U	96 90-110 2 23
Fluoride	4.8	0.10	mg/L	5.10 0.05 U	94 90-110 0.9 25
Chloride	260	1.0	mg/L	255 26	93 90-110 3 26

Batch 6L04012 - NO PREP

Blank (6L04012-BLK1)	Prepared: 12/04/2006 18:38 Analyzed: 12/05/2006 17:20				
Total Dissolved Solids	10 U	10	mg/L		
LCS (6L04012-BS1)				Prepared: 12/04/2006 18:38 Analyzed: 12/05/2006 17:20	
Total Dissolved Solids	310	10	mg/L	300	105 86-118
Duplicate (6L04012-DUP1)			Source: A605392-01	Prepared: 12/04/2006 18:38 Analyzed: 12/05/2006 17:20	
Total Dissolved Solids	550	10	mg/L	540	1 10

Batch 6L05024 - NO PREP

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Classical Chemistry Parameters - Quality Control

Batch 6L05024 - NO PREP

**Blank (6L05024-BLK1)**

Prepared: 12/05/2006 19:32 Analyzed: 12/06/2006 17:50

Total Dissolved Solids

10 U      10      mg/L

Prepared: 12/05/2006 19:32 Analyzed: 12/06/2006 17:50

**LCS (6L05024-BS1)**

Total Dissolved Solids

300      10      mg/L      300      100      86-118

**Duplicate (6L05024-DUP1)**

Source: A606038-03      Prepared: 12/05/2006 19:32 Analyzed: 12/06/2006 17:50

Total Dissolved Solids

370      10      mg/L      370

2      10

### **NOTES AND DEFINITIONS**

- D Data reported from a dilution
- I Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- Q Analysis performed outside of method - specified holding time.
- QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- U Analyte included in the analysis, but not detected

## LABORATORY CERTIFICATION SUMMARY

<b>Analysis</b>	<b>Matrix</b>	<b>Cert ID</b>	<b>Cert Number</b>
8011	Water	NELAC	E83182
8260B Appendix 1	Water	NELAC	E83182
Aluminum Total EPA 6020	Water	NELAC	E83182
Ammonia 350.1	Water	NELAC	E83182
Antimony Total EPA 6020	Water	NELAC	E83182
Arsenic Total EPA 6020	Water	NELAC	E83182
Barium Total EPA 6020	Water	NELAC	E83182
Beryllium Total EPA 6020	Water	NELAC	E83182
Cadmium Total EPA 6020	Water	NELAC	E83182
Chloride 300	Water	NELAC	E83182
Chromium Total EPA 6020	Water	NELAC	E83182
Cobalt Total EPA 6020	Water	NELAC	E83182
Copper Total EPA 6020	Water	NELAC	E83182
Fluoride 300	Water	NELAC	E83182
Iron Total EPA 6020	Water	NELAC	E83182
Lead Total EPA 6020	Water	NELAC	E83182
Manganese Total EPA 6020	Water	NELAC	E83182
Mercury Total EPA 7470A	Water	NELAC	E83182
Nickel Total EPA 6020	Water	NELAC	E83182
Nitrate as N 300	Water	NELAC	E83182
Selenium Total EPA 6020	Water	NELAC	E83182
Silver Total EPA 6020	Water	NELAC	E83182
Sodium Total EPA 6020	Water	NELAC	E83182
TDS 160.1	Water	NELAC	E83182
Thallium Total EPA 6020	Water	NELAC	E83182
Vanadium Total EPA 6020	Water	NELAC	E83182
Zinc Total EPA 6020	Water	NELAC	E83182

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Volatile Organic Compounds by GCMS - Quality Control**
*Batch 6K30018 - EPA 5030B\_MS*

Prepared: 11/30/2006 11:48 Analyzed: 11/30/2006 12:42

**Blank (6K30018-BLK1)**

1,1,1,2-Tetrachloroethane	0.24 U	1.0	ug/L
1,1,1-Trichloroethane	0.88 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.20 U	0.20	ug/L
1,1,2-Trichloroethane	0.44 U	1.0	ug/L
1,1-Dichloroethane	0.60 U	1.0	ug/L
1,1-Dichloroethene	0.83 U	1.0	ug/L
1,2,3-Trichloropropane	0.34 U	1.0	ug/L
1,2-Dichlorobenzene	0.27 U	1.0	ug/L
1,2-Dichloroethane	0.94 U	1.0	ug/L
1,2-Dichloropropane	0.97 U	1.0	ug/L
1,4-Dichlorobenzene	0.24 U	1.0	ug/L
2-Butanone	1.0 U	5.0	ug/L
2-Hexanone	2.1 U	5.0	ug/L
4-Methyl-2-pentanone	1.6 U	5.0	ug/L
Acetone	2.6 U	5.0	ug/L
Acrylonitrile	1.7 U	2.0	ug/L
Benzene	0.48 U	1.0	ug/L
Bromochloromethane	0.93 U	1.0	ug/L
Bromodichloromethane	0.22 U	0.40	ug/L
Bromoform	0.48 U	1.0	ug/L
Bromomethane	0.80 U	1.0	ug/L
Carbon disulfide	0.97 U	5.0	ug/L
Carbon tetrachloride	0.85 U	1.0	ug/L
Chlorobenzene	0.21 U	1.0	ug/L
Chloroethane	0.66 U	1.0	ug/L
Chloroform	0.89 U	1.0	ug/L
Chloromethane	0.82 U	1.0	ug/L
cis-1,2-Dichloroethene	0.75 U	1.0	ug/L
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L
Dibromochloromethane	0.20 U	0.20	ug/L
Dibromomethane	0.42 U	1.0	ug/L
Ethylbenzene	0.99 U	1.0	ug/L
Iodomethane	0.81 U	3.0	ug/L
m,p-Xylenes	0.55 U	2.0	ug/L
Methylene chloride	1.0 U	2.0	ug/L
o-Xylene	0.60 U	1.0	ug/L
Styrene	0.19 U	1.0	ug/L
Tetrachloroethene	0.65 U	1.0	ug/L
Toluene	0.25 U	1.0	ug/L
trans-1,2-Dichloroethene	0.83 U	1.0	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
trans-1,4-Dichloro-2-butene	0.61 U	1.0	ug/L
Trichloroethene	0.71 U	1.0	ug/L
Trichlorofluoromethane	0.70 U	1.0	ug/L
Vinyl acetate	0.20 U	1.0	ug/L

## **QUALITY CONTROL**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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## Volatile Organic Compounds by GCMS - Quality Control

Batch 6K30018 - EPA 5030B MS

Prepared: 11/30/2006 11:48 Analyzed: 11/30/2006 12:42

**Blank (6K30018-BLK1) Continued**

Vinyl chloride	0.52 U	1.0	ug/L			
Xylenes (Total)	0.60 U	1.0	ug/L			
<i>Surrogate: Toluene-d8</i>	<i>44</i>		<i>ug/L</i>	<i>50.0</i>	<i>88</i>	<i>87.6-125</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46</i>		<i>ug/L</i>	<i>50.0</i>	<i>91</i>	<i>57.1-125</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>45</i>		<i>ug/L</i>	<i>50.0</i>	<i>91</i>	<i>49.8-137</i>

LCS (6K30018-BS1)

Prepared: 11/30/2006 11:48 Analyzed: 11/30/2006 12:13

1,1-Dichloroethene	22	1.0	ug/L	20.0	108	55.1-177
Benzene	21	1.0	ug/L	20.0	103	64.9-144
Chlorobenzene	20	1.0	ug/L	20.0	99	63.5-136
Toluene	21	1.0	ug/L	20.0	104	68.4-128
Trichloroethene	20	1.0	ug/L	20.0	98	70.2-128
<i>Surrogate: Toluene-d8</i>	44		ug/L	50.0	88	87.6-125
<i>Surrogate: 4-Bromofluorobenzene</i>	45		ug/L	50.0	91	57.1-125
<i>Surrogate: Dibromofluoromethane</i>	47		ug/L	50.0	95	49.8-137

#### **Matrix Spike (6K30018-MS1)**

Source: A605892-01 Prepared: 11/30/2006 11:48 Analyzed: 11/30/2006 13:12

<b>Matrix Spike (6K50018-MS1)</b>	<b>Source: 11000071-01</b>	<b>Preparation:</b>	<b>Sample Type:</b>	<b>Conc. (ug/L):</b>	<b>Calcd. (ug/L):</b>	<b>Actual (ug/L):</b>	<b>Recovery (%)</b>	<b>Range (%)</b>
1,1-Dichloroethene	22	1.0	ug/L	20.0	0.83 U	111	55.1-177	
Benzene	19	1.0	ug/L	20.0	0.48 U	97	65-143	
Chlorobenzene	21	1.0	ug/L	20.0	0.21 U	104	63.5-136	
Toluene	20	1.0	ug/L	20.0	0.25 U	98	68.4-128	
Trichloroethene	20	1.0	ug/L	20.0	0.71 U	102	70.2-128	
<i>Surrogate: Toluene-d8</i>	45		ug/L	50.0		89	87.6-125	
<i>Surrogate: 4-Bromofluorobenzene</i>	45		ug/L	50.0		90	57.1-125	
<i>Surrogate: Dibromoformmethane</i>	52		ug/L	50.0		103	49.8-137	

#### **Matrix-Spike Run (6K30018-MSD1)**

Source: A605892-01 Prepared: 11/30/2006 11:48 Analyzed: 11/30/2006 13:40

Matrix Spike Dup (6K30018-MSD1)	Source: A005892-01		Prepared: 11/30/2006 11:46 Analyzed: 11/30/2006 13:13							
1,1-Dichloroethene	21	1.0	ug/L	20.0	0.83 U	106	55.1-177	4	15.6	
Benzene	17	QR-02	1.0	ug/L	20.0	0.48 U	85	65-143	13	11.8
Chlorobenzene	19		1.0	ug/L	20.0	0.21 U	95	63.5-136	9	18.9
Toluene	17	QR-02	1.0	ug/L	20.0	0.25 U	84	68.4-128	15	12.4
Trichloroethene	20		1.0	ug/L	20.0	0.71 U	98	70.2-128	4	13.3
<i>Surrogate: Toluene-d8</i>	<i>45</i>		<i>ug/L</i>	<i>50.0</i>		<i>91</i>	<i>87.6-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44</i>		<i>ug/L</i>	<i>50.0</i>		<i>89</i>	<i>57.1-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>49.8-137</i>			

Semivolatile Organic Compounds by GC - Quality Control

Batch 6L04017 - EPA 504/8011

Prepared: 12/04/2006 12:19 Analyzed: 12/05/2006 17:56

### 1,2-Dibromoethane

1,2-Dibromoethane      0.0150 U      0.0200 ug/L  
 1,2-Dibromo-3-chloropropane      0.236 ug/L      0.250      94      53.3-127  
*Surrogate: 1,3-Dichlorobenzene*  
**LCS (6L04017-BS1)**      Prepared: 12/04/2006 12:19 Analyzed: 12/05/2006 18:07  
 1,2-Dibromoethane      0.260      0.0200      ug/L      0.250      104      56.3-121  
 1,2-Dibromo-3-chloropropane      0.290      0.0200      ug/L      0.250      116      65.7-152

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Semivolatile Organic Compounds by GC - Quality Control

Batch 6L04017 - EPA 504/8011

LCS (6L04017-BS1) Continued				Prepared: 12/04/2006 12:19 Analyzed: 12/05/2006 18:07												
Surrogate: 1,3-Dichlorobenzene	0.238		ug/L	0.250	95	53.3-127										
Matrix Spike (6L04017-MS1)				Source: A605170-01	Prepared: 12/04/2006 12:19 Analyzed: 12/05/2006 18:18											
1,2-Dibromoethane	0.306	QM-07	0.0200	ug/L	0.250	0.0120 U	123	56.3-121	QM-07							
1,2-Dibromo-3-chloropropane	0.320		0.0200	ug/L	0.250	0.0150 U	128	65.7-152								
Surrogate: 1,3-Dichlorobenzene	0.246		ug/L	0.250	98	53.3-127										
Matrix Spike Dup (6L04017-MSD1)				Source: A605170-01	Prepared: 12/04/2006 12:19 Analyzed: 12/05/2006 18:29											
1,2-Dibromoethane	0.308	QM-07	0.0200	ug/L	0.250	0.0120 U	123	56.3-121	0.6	18.6	QM-07					
1,2-Dibromo-3-chloropropane	0.319		0.0200	ug/L	0.250	0.0150 U	127	65.7-152	0.4	25.3						
Surrogate: 1,3-Dichlorobenzene	0.231		ug/L	0.250	93	53.3-127										

### Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 6K29013 - EPA 7470A

Blank (6K29013-BLK1)				Prepared: 11/29/2006 13:57 Analyzed: 12/01/2006 08:58							
Mercury	0.11	U	0.20	ug/L							
Blank (6K29013-BLK2)				Prepared: 11/30/2006 09:47 Analyzed: 12/01/2006 09:01							
Mercury	0.11	U	0.20	ug/L							
LCS (6K29013-BS1)				Prepared: 11/29/2006 13:57 Analyzed: 12/01/2006 09:04							
Mercury	5.2		0.20	ug/L	5.00	104	93-111				
LCS (6K29013-BS2)				Prepared: 11/30/2006 09:47 Analyzed: 12/01/2006 09:07							
Mercury	5.2		0.20	ug/L	5.00	104	93-111				
Matrix Spike (6K29013-MS1)				Source: A605885-07	Prepared: 11/29/2006 13:57 Analyzed: 12/01/2006 09:14						
Mercury	5.5		0.20	ug/L	5.00	0.12	108	85-115			
Matrix Spike Dup (6K29013-MSD1)				Source: A605885-07	Prepared: 11/29/2006 13:57 Analyzed: 12/01/2006 09:27						
Mercury	5.5		0.20	ug/L	5.00	0.12	108	85-115	0.5	12	

Batch 6K29014 - EPA 3005A

Blank (6K29014-BLK1)				Prepared: 11/29/2006 14:25 Analyzed: 12/03/2006 17:42							
Aluminum	8.67	U	10.0	ug/L							
Antimony	0.338	I	0.500	ug/L							
Arsenic	0.200	U	1.00	ug/L							
Barium	1.17	U	10.0	ug/L							
Beryllium	0.050	U	0.050	ug/L							
Cadmium	0.170	U	0.500	ug/L							
Chromium	0.620	U	1.00	ug/L							
Cobalt	0.041	U	1.00	ug/L							
Copper	0.310	U	0.500	ug/L							
Iron	3.58	U	10.0	ug/L							
Lead	0.280	U	1.00	ug/L							
Manganese	0.044	U	1.00	ug/L							
Nickel	0.260	U	1.00	ug/L							
Selenium	0.178	I	1.00	ug/L							
Silver	0.033	U	0.050	ug/L							
Sodium	19.2	U	50.0	ug/L							

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 6K29014 - EPA 3005A

Prepared: 11/29/2006 14:25 Analyzed: 12/02/2006 15:38

#### Blank (6K29014-BLK1) Continued

Thallium	0.022 U	0.050	ug/L
Vanadium	0.260 U	1.00	ug/L
Zinc	10.0 U	10.0	ug/L

Prepared: 11/29/2006 14:25 Analyzed: 12/03/2006 17:53

#### LCS (6K29014-BS1)

Aluminum	53.3	10.0	ug/L	50.0	107	85-115
Antimony	52.2	0.500	ug/L	50.0	104	85-115
Arsenic	48.0	1.00	ug/L	50.0	96	85-115
Barium	50.6	10.0	ug/L	50.0	101	85-115
Beryllium	48.8	0.050	ug/L	50.0	98	85-115
Cadmium	49.4	0.500	ug/L	50.0	99	85-115
Chromium	51.8	1.00	ug/L	50.0	104	85-115
Cobalt	50.4	1.00	ug/L	50.0	101	85-115
Copper	50.4	0.500	ug/L	50.0	101	85-115
Iron	56.2	10.0	ug/L	50.0	112	85-115
Lead	50.9	1.00	ug/L	50.0	102	85-115
Manganese	52.4	1.00	ug/L	50.0	105	85-115
Nickel	49.5	1.00	ug/L	50.0	99	85-115
Selenium	48.6	1.00	ug/L	50.0	97	85-115
Silver	5.13	0.050	ug/L	5.00	103	85-115
Sodium	547	50.0	ug/L	500	109	85-115
Thallium	50.8	0.050	ug/L	50.0	102	85-115
Vanadium	50.2	1.00	ug/L	50.0	100	85-115
Zinc	48.1	10.0	ug/L	50.0	96	85-115

#### Matrix Spike (6K29014-MS1)

Source: A605885-07

Prepared: 11/29/2006 14:25 Analyzed: 12/03/2006 18:56

Aluminum	529	100	ug/L	500	86.7 U	106	70-130
Antimony	530	5.00	ug/L	500	3.40	105	70-130
Arsenic	492	10.0	ug/L	500	2.00 U	98	70-130
Barium	507	100	ug/L	500	11.7 U	101	70-130
Beryllium	501	0.500	ug/L	500	0.500 U	100	70-130
Cadmium	499	5.00	ug/L	500	1.70 U	100	70-130
Chromium	528	10.0	ug/L	500	6.20 U	106	70-130
Cobalt	508	10.0	ug/L	500	0.410 U	102	70-130
Copper	509	5.00	ug/L	500	3.10 U	102	70-130
Iron	553	100	ug/L	500	35.8 U	111	70-130
Lead	509	10.0	ug/L	500	2.80 U	102	70-130
Manganese	541	10.0	ug/L	500	0.440 U	108	70-130
Nickel	510	10.0	ug/L	500	2.60 U	102	70-130
Selenium	470	10.0	ug/L	500	2.50	94	70-130
Silver	51.2	0.500	ug/L	50.0	0.330 U	102	70-130
Sodium	5430	500	ug/L	5000	258	103	70-130
Thallium	513	0.500	ug/L	500	0.220 U	103	70-130
Vanadium	501	10.0	ug/L	500	2.60 U	100	70-130
Zinc	484	100	ug/L	500	100 U	97	70-130

#### Matrix Spike Dup (6K29014-MSD1)

Source: A605885-07

Prepared: 11/29/2006 14:25 Analyzed: 12/03/2006 19:04

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 6K29014 - EPA 3005A

Matrix Spike Dup (6K29014-MSD1) Continued    Source: A605885-07    Prepared: 11/29/2006 14:25 Analyzed: 12/03/2006 19:04

Aluminum	537	100	ug/L	500	86.7 U	107	70-130	1	20
Antimony	544	5.00	ug/L	500	3.40	108	70-130	3	20
Arsenic	488	10.0	ug/L	500	2.00 U	98	70-130	0.7	20
Barium	513	100	ug/L	500	11.7 U	103	70-130	1	20
Beryllium	503	0.500	ug/L	500	0.500 U	101	70-130	0.3	20
Cadmium	498	5.00	ug/L	500	1.70 U	100	70-130	0.2	20
Chromium	533	10.0	ug/L	500	6.20 U	107	70-130	0.9	20
Cobalt	498	10.0	ug/L	500	0.410 U	100	70-130	2	20
Copper	512	5.00	ug/L	500	3.10 U	102	70-130	0.7	20
Iron	557	100	ug/L	500	35.8 U	111	70-130	0.8	20
Lead	496	10.0	ug/L	500	2.80 U	99	70-130	3	20
Manganese	535	10.0	ug/L	500	0.440 U	107	70-130	1	20
Nickel	509	10.0	ug/L	500	2.60 U	102	70-130	0.1	20
Selenium	482	10.0	ug/L	500	2.50	96	70-130	3	20
Silver	52.0	0.500	ug/L	50.0	0.330 U	104	70-130	2	20
Sodium	5510	500	ug/L	5000	258	105	70-130	1	20
Thallium	498	0.500	ug/L	500	0.220 U	100	70-130	3	20
Vanadium	509	10.0	ug/L	500	2.60 U	102	70-130	2	20
Zinc	490	100	ug/L	500	100 U	98	70-130	1	20

Post Spike (6K29014-PS1)    Source: A605885-07    Prepared: 12/02/2006 11:51 Analyzed: 12/02/2006 17:08

Antimony	54.4	5.00	ug/L	49.5	0.336	109	75-125
Arsenic	49.5	10.0	ug/L	49.5	0.058	100	75-125
Barium	51.0	100	ug/L	49.5	-0.425	104	75-125
Beryllium	50.3	1.00	ug/L	49.5	0.029	102	75-125
Cadmium	50.4	5.00	ug/L	49.5	-0.127	102	75-125
Chromium	52.4	10.0	ug/L	49.5	0.193	105	75-125
Cobalt	51.4	10.0	ug/L	49.5	-0.265	104	75-125
Copper	51.3	10.0	ug/L	49.5	-0.020	104	75-125
Iron	55.3	100	ug/L	49.5	0.119	111	75-125
Lead	51.6	10.0	ug/L	49.5	-0.088	104	75-125
Manganese	54.4	10.0	ug/L	49.5	-1.99	114	75-125
Nickel	51.5	10.0	ug/L	49.5	0.021	104	75-125
Selenium	48.3	10.0	ug/L	49.5	0.248	97	75-125
Silver	5.17	1.00	ug/L	4.95	-0.022	105	75-125
Thallium	51.7	1.00	ug/L	49.5	-0.054	105	75-125
Vanadium	50.6	10.0	ug/L	49.5	-0.095	102	75-125
Zinc	49.6	100	ug/L	49.5	1.05	98	75-125

Post Spike (6K29014-PS2)    Source: A605885-07    Prepared: 12/03/2006 12:00 Analyzed: 12/03/2006 19:12

Aluminum	50.0	100	ug/L	50.0	-2.01	104	75-125
Sodium	579	1000	ug/L	500	25.8	111	75-125

### Classical Chemistry Parameters - Quality Control

Batch 6K29022 - NA

Blank (6K29022-BLK1)

Nitrate as N    0.008 U    0.050 mg/L

Prepared: 11/29/2006 17:44 Analyzed: 11/29/2006 22:20

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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### Classical Chemistry Parameters - Quality Control

Batch 6K29022 - NA

#### Blank (6K29022-BLK1) Continued

Prepared: 11/29/2006 17:44 Analyzed: 11/29/2006 22:20

Fluoride	0.05	U	0.10	mg/L						
Chloride	0.27	I	1.0	mg/L						

#### LCS (6K29022-BS1)

Prepared: 11/29/2006 17:44 Analyzed: 11/29/2006 22:43

Nitrate as N	4.6	0.050	mg/L	5.00		92	90-110			
Fluoride	5.3	0.10	mg/L	5.00		105	90-110			
Chloride	250	1.0	mg/L	250		98	90-110			

#### Matrix Spike (6K29022-MS1)

Source: A605906-06 Prepared: 11/29/2006 17:44 Analyzed: 11/30/2006 07:59

Nitrate as N	6.1	0.050	mg/L	5.10	0.008 U	120	90-110			
Fluoride	5.4	0.10	mg/L	5.10	0.05 U	105	90-110			
Chloride	230	1.0	mg/L	255	26	81	90-110			

#### Matrix Spike Dup (6K29022-MSD1)

Source: A605906-06 Prepared: 11/29/2006 17:44 Analyzed: 11/30/2006 08:22

Nitrate as N	6.0	0.050	mg/L	5.10	0.008 U	118	90-110	1	23	
Fluoride	5.5	0.10	mg/L	5.10	0.05 U	108	90-110	2	25	
Chloride	230	QM-07	1.0	mg/L	255	26	79	90-110	2	26

QM-07

Batch 6K30030 - NO PREP

#### Blank (6K30030-BLK1)

Prepared: 11/30/2006 21:50 Analyzed: 12/04/2006 17:12

Total Dissolved Solids	10	U	10	mg/L						
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#### LCS (6K30030-BS1)

Prepared: 11/30/2006 21:50 Analyzed: 12/04/2006 17:12

Total Dissolved Solids	280	10	mg/L	300		93	86-118			
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#### Duplicate (6K30030-DUP1)

Source: A605838-02 Prepared: 11/30/2006 21:50 Analyzed: 12/04/2006 17:12

Total Dissolved Solids	410	10	mg/L	400		3	10			
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Batch 6L01018 - NO PREP

#### Blank (6L01018-BLK1)

Prepared: 12/01/2006 14:57 Analyzed: 12/07/2006 11:59

Ammonia as N	0.010	I	0.020	mg/L						
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#### LCS (6L01018-BS1)

Prepared: 12/01/2006 14:57 Analyzed: 12/07/2006 12:00

Ammonia as N	0.96	0.020	mg/L	1.00		96	90-110			
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#### Matrix Spike (6L01018-MS1)

Source: A605863-01 Prepared: 12/01/2006 14:57 Analyzed: 12/07/2006 12:04

Ammonia as N	0.94	0.020	mg/L	1.00	0.003 U	94	90-110			
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#### Matrix Spike Dup (6L01018-MSD1)

Source: A605863-01 Prepared: 12/01/2006 14:57 Analyzed: 12/07/2006 12:05

Ammonia as N	0.90	0.020	mg/L	1.00	0.003 U	90	90-110	5	10	
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#### NOTES AND DEFINITIONS

- I Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- U Analyte included in the analysis, but not detected

### LABORATORY CERTIFICATION SUMMARY

<b>Analysis</b>	<b>Matrix</b>	<b>Cert ID</b>	<b>Cert Number</b>
8011	Water	NELAC	E83182
8260B Appendix 1	Water	NELAC	E83182
Aluminum Total EPA 6020	Water	NELAC	E83182
Ammonia 350.1	Water	NELAC	E83182
Antimony Total EPA 6020	Water	NELAC	E83182
Arsenic Total EPA 6020	Water	NELAC	E83182
Barium Total EPA 6020	Water	NELAC	E83182
Beryllium Total EPA 6020	Water	NELAC	E83182
Cadmium Total EPA 6020	Water	NELAC	E83182
Chloride 300	Water	NELAC	E83182
Chromium Total EPA 6020	Water	NELAC	E83182
Cobalt Total EPA 6020	Water	NELAC	E83182
Copper Total EPA 6020	Water	NELAC	E83182
Fluoride 300	Water	NELAC	E83182
Iron Total EPA 6020	Water	NELAC	E83182
Lead Total EPA 6020	Water	NELAC	E83182
Manganese Total EPA 6020	Water	NELAC	E83182
Mercury Total EPA 7470A	Water	NELAC	E83182
Nickel Total EPA 6020	Water	NELAC	E83182
Nitrate as N 300	Water	NELAC	E83182
Selenium Total EPA 6020	Water	NELAC	E83182
Silver Total EPA 6020	Water	NELAC	E83182
Sodium Total EPA 6020	Water	NELAC	E83182
TDS 160.1	Water	NELAC	E83182
Thallium Total EPA 6020	Water	NELAC	E83182
Vanadium Total EPA 6020	Water	NELAC	E83182
Zinc Total EPA 6020	Water	NELAC	E83182

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

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL		DATE: 11/28/06							
WELL NO: NA	SAMPLE ID: EQB	PURGING DATA									
WELL <del>PVC</del> DIAMETER (inches):	TUBING <del>5"</del> DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER ESP							
WELL VOLUME PURGE: WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$NA = ( \text{feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$											
EQUIPMENT VOLUME PURGE: EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$NA = \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA		FINAL PUMP OR TUBING DEPTH IN WELL (feet):	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. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<i>DI Water</i>											
WELL CAPACITY (Gallons Per Foot): 0.76" = 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" = 0.008; 1/2" = 0.010; 5/8" = 0.016											

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Envirotech, LLC</b>		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 0911	SAMPLING ENDED AT: 0920		
PUMP OR TUBING DEPTH IN WELL (feet): NA		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: Y N		FIELD-FILTERED: Y N	FILTER SIZE: mm Filtration Equipment Type:	DUPPLICATE: 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
"	1	PE	250 mL	H2S04	None	---	Total Ammonia
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS
"		Various	Various	Various	None	---	Appendix I Parameters

REMARKS:

Field decontaminated 5 gallon PE bucket, WL probe and 55 ESP. DEP-SOP-001/01, FC 1000. Poured 3 gallons of DI water into 5 gallon bucket, inserted WL probe and submerged ESP. Ran DI water through ESP and over WL probe for 2 minutes. Collected 400B samples from 5 gallon bucket.

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(j), ± 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))

## Field Instrument Calibration Records

**INSTRUMENT (MAKE/MODEL#) YSI 566/Lamotte 2020 INSTRUMENT #**

#### **PARAMETERS:**

TEMPERATURE       CONDUCTIVITY       SALINITY       pH       ORP  
 TURBIDITY       RESIDUAL CL       DO       OTHER \_\_\_\_\_

**STANDARDS:** *(Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased)*

Standard A Calitech Autocal Solution Exp: 4/11/08

Standard B Oakton pH 10 Standard

Standard C Oakton Conductivity 034 mS/cm Standard

Standard D Lamotte INTU Standard

Standard E Lamotte 10 NTU Standard