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SUMTER COUNTY (CLOSED) LANDFILL QUARTERLY GROUNDWATER MONITORING REPORT, Quarter III (September) 2006

Prepared for:

SUMTER COUNTY
SOLID WASTE DEPARTMENT
SUMTER COUNTY, FLORIDA

Prepared by:

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

October 2006

REPORT FORMS NOT SUBMITTED

ELEVATED D.O. REPORTED AT 3 OF 9 WELLS (INCLUDED ASSESSMENT WELLS MW-4A & MW-4B)

ELEVATED TURBIDITY REPORTED AT 1 OF 9 WELLS

1 FT ELEVATION DIFFERENCE AT MW-9/MW-9A NOT DISCUSSED

ELEVATED pH REPORTED AT MW-4B

SEPT. 2006 SAMPLING EVENT

THE COLINAS GROUP, INC.
ENGINEERING AND ENVIRONMENTAL CONSULTANTS

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

October 6, 2006

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

Dear Mr. Morris:

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

Sumter County Closed Class I Landfill Quarterly Groundwater Monitoring Report, Quarter III (September) 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.

Gross alpha exceeded the MCL in the initial water sample from monitoring well MW-4. Given the rather long laboratory turn-around time (normal for radiological parameters), the County was unable to resample for this constituent in time to include the confirmation results with this report. We will resample well MW-4 within the 30-day period allowed for by rule and submit the resampling result to the Department under separate cover.

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.

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 III (September) 2006

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Sumter County (Closed) Landfill
Quarterly Groundwater Monitoring Report
Quarter III (September) 2006

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter III (September) 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 amended in 2004 to replace three (3) existing monitoring wells deemed unsuitably located with respect to closed solid waste disposal areas. Existing wells MW-1, MW-7 and MW-9 were replaced by installation of new wells MW-11, MW-10 and MW-9A, respectively. The existing wells will continue to be used as water level measuring points (piezometers).

New monitoring wells MW-4A and MW-4B, installed as part of a Preliminary Contamination Assessment completed at the landfill in January 2006, were added by the FDEP to the facility groundwater monitoring network in May 2006. Groundwater sample analytical results for these new wells are included in this report. 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 normal list of quarterly monitoring parameters. The Long-Term Care Permit requires an expanded parameter list, to include 40 CFR Appendix II parameters, during Quarter IV of each year.

SAMPLING EVENT

The Quarter III 2006 sampling event at the Sumter County Landfill occurred on September 7 - 8, 2006. Sampling was performed by TCG personnel 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.

Water table depth measurements in each facility groundwater monitoring well and piezometer were recorded on September 8, 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 September 2006 sampling event are summarized in Table I. Field tests were completed by TCG sampling personnel 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 seven (7) of the nine (9) groundwater monitoring wells sampled during the September 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. Groundwater pH measured at well MW-4B was elevated above the FDEP pH range at 9.52. Groundwater at well MW-9A was slightly below the lower pH range limit at 6.46.

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 monitoring wells ranged from a low of 24.42 C at background well MW-6A to 28.21 C at MW-2.

Dissolved Oxygen

Dissolved oxygen (DO) exceeded the FDEP sampling guidance level of 20% saturation at three (3) of the nine (9) monitoring wells sampled, including the facility background monitoring well MW-6A. These wells consistently produce groundwater with elevated DO concentrations. Well MW-4B is a recently-installed well sampled for the second time in this quarter.

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 128 umhos/cm to 873 umhos/cm. Lowest specific conductance was measured at detection well MW-2 (128 umhos/cm). Highest specific conductance was measured at detection well MW-9A at 873 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, except at background well MW-6A. Fluid turbidity exceeded 10 NTUs at wells MW-2, MW-4, 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 September 2006 sample set is presented in Table III. As shown, four (4) analytical parameters were reported for certain monitoring wells at concentrations that exceed applicable regulatory levels. Exceeded parameters were aluminum, iron, manganese, and nitrate nitrogen.

Aluminum

Aluminum was detected at concentrations above the FSDWS MCL (200 ug/l) in samples from detection wells MW-2 (372 ug/l) and MW-10 (918 ug/l). An aluminum concentration of 815 ug/l is reported for new monitoring well MW-4B. Aluminum at background well MW-6A also exceeded the MCL at 427 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 388 ug/l at well MW-9A and at 2,6300 ug/l at well MW-10. Iron was either detected below 300 ug/l or undetected in samples from the remaining monitoring wells.

Manganese

Manganese was measured at concentrations above the FSDWS MCL of 50 ug/l in two (2) monitoring wells: MW-9A (93 ug/l) and MW-10 (66 ug/l). Manganese was detected in wells MW-2, MW-4, MW-4A, MW-6A and MW-11 at concentrations well 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 13.5 mg/l in the initial sample and 19.3 mg/l on reasample. While not exceeding the FPDWS MCL,

samples from the facility background monitoring well (MW-6A), and wells MW-4 and new well MW-4A produced nitrate levels considered elevated above natural levels generally encountered in Florida groundwaters.

Gross Alpha

This radiological constituent was reported slightly above the FPDWS MCL of 15 pCi/l at monitoring well MW-4. The laboratory reported a gross alpha value of 17 pCi/l with a range of uncertainty of ± 1.7 pCi/l. At the negative end of the range the reported concentration is 15.3 pCi/l.

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 Detected Parameters

Cadmium was detected at 3.0 ug/l in samples from detection monitoring well MW-11 (MCL for cadmium is 5 ug/l), and was below the laboratory detection level in remaining wells.

Chromium was detected at small concentrations at monitoring well MW-2 and background well MW-6A (14 ug/l and 8 ug/l, respectively). The FPDWS MCL for chromium is 100 ug/l.

Fluoride was detected at a very low concentration at new well MW-4A at 0.1 mg/l. The FPDWS MCL for fluoride is 4 mg/l.

Mercury was detected at detection well MW-9A at a concentration of 0.48 ug/l, below the MCL for mercury (2 ug/l), and was not detected in remaining monitoring wells.

Sodium and chloride concentrations reported for six (6) of the nine (9) monitoring wells appear consistent between individual wells and typical for natural shallow groundwaters in Florida. Although significantly below respective regulatory MCLs, sodium/chloride concentrations at monitoring wells MW-4 and MW-4A and chloride at MW-9A are elevated above concentrations measured in samples from the other monitoring wells.

Thallium was detected in one (1) monitoring well, new well MW-4A at 0.3 ug/l. The MCL for thallium is 2 ug/l.

SUMMARY

Chemical characteristics of groundwater monitored at the Sumter County Landfill are reported for the Quarter III (September) 2006 sampling event. Exceedances of specific constituent regulatory maximum concentration levels (MCLs) are reported at specific monitoring wells for aluminum, iron, manganese and nitrate nitrogen. Elevated dissolved oxygen (DO) levels were measured in three of the seven groundwater monitoring wells, including the facility background monitoring well. Prior sampling data indicate that elevated DO levels occur frequently and in the same monitoring wells, suggesting that high DO in groundwater at these locations is likely a natural condition.

Aluminum was detected in samples from four wells (MW-2, MW-4B, MW-6A and MW-10) at concentrations above the FSDWS MCL of 200 ug/l. Aluminum was detected below the MCL in three monitoring wells (including background well MW-6A) and was below the laboratory detection limit in two others. The most likely source of aluminum measured in groundwater samples is natural deposits of clay minerals within and near the groundwater monitoring zone tapped by wells at the landfill.

Concentrations of manganese above the FSDWS MCL were reported for the more recently-constructed monitoring wells MW-9A and MW-10. Iron was detected above the FSDWS MCL in 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.

Nitrate nitrogen dissolved in groundwater was reported slightly below the FPDWS MCL of 10 mg/l at compliance well MW-4 at 9.88 mg/l and above the MCL at detection well MW-2 (13.5 - 19.3 mg/l). Elevated concentrations of nitrate nitrogen were also reported at new well MW-4A , detection well MW-11 and at background well MW-6A, at levels considered well above naturally-occurring nitrate concentrations in groundwater in Florida. As shown on the groundwater contour map for the September 2006 sampling event (Figure 1) wells MW-4A and MW-4B were upgradient of the closed landfill waste disposal area, suggesting movement of high-nitrate groundwaters from agricultural areas to the east of the closed landfill and from the north in the vicinity of the county's animal control facility and MW-4.

The laboratory test result for the radiological constituent Gross Alpha slightly exceeded the Rule 62-550, F.A.C.15 pCi/l MCL at monitoring well MW-4. This well will be resampled for gross alpha within the time frame allowed by the facility long-term care permit and confirmation laboratory test results will be submitted to the Department under separate cover.

* * * * * *

TABLE I
FIELD PARAMETER RESULTS SUMMARY,
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter III (September) 2006

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	28.21	1.28	6.70	128	16.4
MW-4	26.93	0.46	7.04	644	14.7
MW-4A	26.79	0.15	6.98	635	4.50
MW-4B	26.95	**3.65**	**9.52**	152	0.91
MW-6A	24.42	**6.29**	7.81	244	**20.9**
MW-8	24.46	**3.03**	7.21	375	0.45
MW-9A	25.76	0.19	**6.46**	873	12.7
MW-10	25.01	0.26	6.76	600	14.4
MW-11	26.25	0.16	6.52	596	16.0

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

TABLE II

SUMMARY OF GROUNDWATER LEVELS
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
September 8, 2006

Well No.	Measuring Point Elevation (ft. +NGVD)	Depth to Water (ft. - MP)	Groundwater Elevation (ft. +NGVD)	
MW-1	70.17	27.09	43.08	✓
MW-2	69.13	25.82	43.31	✓
MW-2A	72.11	28.82	43.29	✓
MW-4	70.36	27.24	43.12	✓
MW-4A	75.73	32.43	43.30	✓
MW-4B	73.83	30.51	43.32	✓
MW-6A	77.54	34.10	43.44	✓
MW-7	73.14	29.90	43.24	✓
MW-8	69.26	24.87	44.39	✓
MW-9	71.95	28.59	43.36	✓
MW-9A	74.26	31.90	42.36	NOT USED ON CONTOUR MAP
MW-10	68.28	24.92	43.36	✓
MW-11	70.21	26.96	43.25	✓

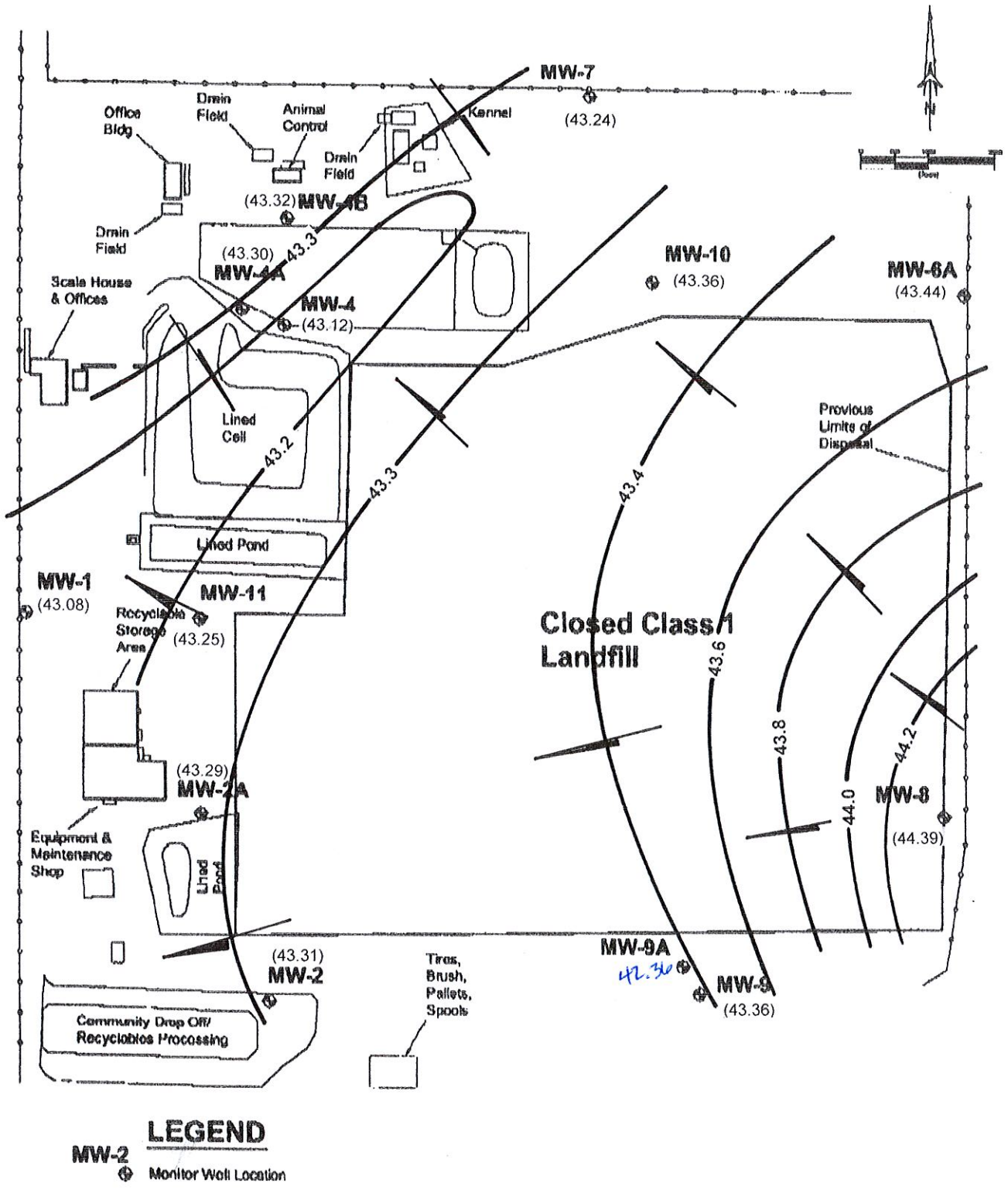
Notes: 1. Measuring Point is top of PVC well casing.
2. Water levels recorded on September 8, 2006

TABLE III
SUMMARY OF LABORATORY RESULTS
SUMTER COUNTY (CLOSED) LANDFILL, QUARTER III (September) 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	BDL	0.2	0.06	BDL	**2.8**
Aluminum	ug/l	**372**	183	BDL	**815**	**427**	BDL	97	**918**	182	**200**
Antimony	ug/l	BDL	BDL	3	3	2	2	BDL	BDL	BDL	**6**
Cadmium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	**5**
Chloride	mg/l	4.78	25.8	24.5	5.1	6.15	8.63	17.7	8.68	2.89	**250**
Chromium	ug/l	14	BDL	BDL	BDL	8	BDL	BDL	BDL	BDL	**100**
Fluoride	mg/l	BDL	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL	**4**
Gross Alpha	pCi/l	6.4 ± 1.0	**17 ± 1.7**	2.2 ± 1.0	3.0 ± 0.9	1.2 ± 1.0	2.6 ± 1.3	6.4 ± 1.1	3.2 ± 1.6	7.9 ± 1.6	**15**
Iron	ug/l	172	40	BDL	BDL	82	BDL	**388**	**2,630**	49	**300**
Lead	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**15**
Manganese	ug/l	31	12	3	BDL	2	BDL	**93**	**66**	16	**50**
Mercury	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.48	BDL	BDL	**2**
Nitrate, as N	mg/l	**13.5/19.3**	9.88	8.48	1.09	5.65	2.50	0.735	1.16	3.7	**10**
pH	s.u.	6.70	7.04	6.98	**9.52**	7.81	7.21	**6.46**	6.76	6.52	**6.5-8.5**
Radium 226	pCi/l	1.3 ± 0.3	2.3 ± 0.6	0.2 ± 0.1	1.1 ± 0.3	0.5 ± 0.2	0.9 ± 0.2	2.3 ± 0.4	0.3 ± 0.1	3.0 ± 0.4	**---**
Radium 228	pCi/l	<0.9 ± 0.6	<0.9 ± 0.6	<0.9 ±0.5	<0.8 ± 0.5	<0.8 ± 0.5	<0.8 ± 0.5	<0.8 ± 0.5	<0.8 ± 0.5	1.3 ± 0.6	**---**
Silver	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**100**
Sodium	mg/l	3.5	39.6	26	10.1	3.15	5.12	14.7	8.95	12.4	**160**
TDS	mg/l	266	386	384	88	154	204	490	330	328	**500**
Thallium	ug/l	BDL	BDL	0.3	BDL	BDL	BDL	BDL	BDL	BDL	**2**

Notes: 1). BDL means below laboratory detection limit 2). **Bold lettering** indicates result exceeds MCL/Guidance concentration 3). Two values is initial sample / resample result.

1



PROJ. NO. P-301 DATE: Sept. 27, 2006 SCALE: 1" = 200' (approx.) **THE COLINAS GROUP** 509 N. Virginia Ave., Winter Park, Fl 32789	**GROUNDWATER CONTOUR MAP** **QUARTER III (September) 2006** **SUMTER COUNTY (CLOSED) LANDFILL** **SUMTER COUNTY, FLORIDA** **FIGURE 1**

2

SAMPLE DETECTION SUMMARY

Client ID: MW-2	Lab ID: A604193-01			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Aluminum	372 D	100	ug/L	EPA 200.8
Chloride	4.78 B	1.00	mg/L	EPA 300.0
Chromium	14 D	10	ug/L	EPA 200.8
Iron	172 D	100	ug/L	EPA 200.8
Manganese	31 D	10	ug/L	EPA 200.8
Nitrate as N	13.5 Q, D	0.100	mg/L	EPA 300.0
Sodium	3500 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	266	10	mg/L	EPA 160.1
Client ID: MW-4	**Lab ID: A604193-02**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Aluminum	183 D	100	ug/L	EPA 200.8
Chloride	25.8 B	1.00	mg/L	EPA 300.0
Iron	40 I, D	100	ug/L	EPA 200.8
Manganese	12 D	10	ug/L	EPA 200.8
Nitrate as N	9.88	0.050	mg/L	EPA 300.0
Sodium	39600 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	386	10	mg/L	EPA 160.1
Client ID: MW-4A	**Lab ID: A604193-03**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Antimony	3 B, D	2	ug/L	EPA 200.8
Chloride	24.5 B	1.00	mg/L	EPA 300.0
Fluoride	0.1	0.1	mg/L	EPA 300.0
Manganese	3 I, D	10	ug/L	EPA 200.8
Nitrate as N	8.48	0.050	mg/L	EPA 300.0
Sodium	26000 D	1000	ug/L	EPA 200.8
Thallium	0.3 I, D	1	ug/L	EPA 200.8
Total Dissolved Solids	384	10	mg/L	EPA 160.1
Client ID: MW-4B	**Lab ID: A604193-04**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Aluminum	815 D	100	ug/L	EPA 200.8
Antimony	3 D, B	2	ug/L	EPA 200.8
Chloride	5.10 B	1.00	mg/L	EPA 300.0
Nitrate as N	1.09	0.050	mg/L	EPA 300.0
Sodium	10100 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	88	10	mg/L	EPA 160.1
Client ID: MW-6A	**Lab ID: A604193-05**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Aluminum	427 D	100	ug/L	EPA 200.8
Antimony	2 D, B	2	ug/L	EPA 200.8
Chloride	6.15 B	1.00	mg/L	EPA 300.0

Chromium	8 I, D	10	ug/L	EPA 200.8
Iron	82 I, D	100	ug/L	EPA 200.8
Manganese	2 I, D	10	ug/L	EPA 200.8
Nitrate as N	5.65	0.050	mg/L	EPA 300.0
Sodium	3150 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	154	10	mg/L	EPA 160.1

Client ID: MW-8 **Lab ID: A604193-06**

Analyte	Results/Qual	MRL	Units	Method
Antimony	2 D, B	2	ug/L	EPA 200.8
Chloride	8.63 B	1.00	mg/L	EPA 300.0
Nitrate as N	2.50	0.050	mg/L	EPA 300.0
Sodium	5120 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	204	10	mg/L	EPA 160.1

Client ID: MW-9A **Lab ID: A604193-07**

Analyte	Results/Qual	MRL	Units	Method
Aluminum	97 I, D	100	ug/L	EPA 200.8
Ammonia as N	0.2	0.02	mg/L	EPA 350.1
Chloride	17.7 B	1.00	mg/L	EPA 300.0
Iron	388 D	100	ug/L	EPA 200.8
Manganese	93 D	10	ug/L	EPA 200.8
Mercury	0.48	0.20	ug/L	EPA 245.1
Nitrate as N	0.735	0.050	mg/L	EPA 300.0
Sodium	14700 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	490	10	mg/L	EPA 160.1

Client ID: MW-10 **Lab ID: A604193-08**

Analyte	Results/Qual	MRL	Units	Method
Aluminum	918 D	100	ug/L	EPA 200.8
Ammonia as N	0.06	0.02	mg/L	EPA 350.1
Chloride	8.68 B	1.00	mg/L	EPA 300.0
Iron	2630 D	100	ug/L	EPA 200.8
Manganese	66 D	10	ug/L	EPA 200.8
Nitrate as N	1.16	0.050	mg/L	EPA 300.0
Sodium	8950 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	330	10	mg/L	EPA 160.1

Client ID: MW-11 **Lab ID: A604193-09**

Analyte	Results/Qual	MRL	Units	Method
Aluminum	182 D	100	ug/L	EPA 200.8
Cadmium	3 D	2	ug/L	EPA 200.8
Chloride	2.89 B	1.00	mg/L	EPA 300.0
Iron	49 I, D	100	ug/L	EPA 200.8
Manganese	16 D	10	ug/L	EPA 200.8
Nitrate as N	3.70	0.050	mg/L	EPA 300.0
Sodium	12400 D	1000	ug/L	EPA 200.8
Total Dissolved Solids	328	10	mg/L	EPA 160.1

Client ID: EQB **Lab ID: A604193-10**

Analyte	Results/Qual	MRL	Units	Method
Antimony	2 D, B	2	ug/L	EPA 200.8
Chloride	1.66 B	1.00	mg/L	EPA 300.0
Fluoride	7.9	0.1	mg/L	EPA 300.0
Manganese	2 I, D	10	ug/L	EPA 200.8

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ANALYTICAL REPORT

Sample ID: MW-2
Lab #: A604193-01

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**372** D	87	100	ug/L
Antimony	7440-36-0	2 U, D	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	**14** D	6	10	ug/L
Iron	7439-89-6	**172** D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**31** D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**3500** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-2
Lab #: A604193-01

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**4.78**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1	U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**13.5**	Q, D	0.016	0.100	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**266**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-2
Lab #: A604678-01

Project: Sumter County Landfill
Work Order #: A604678
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Nitrate as N	NA	**19.3**	D	0.040	0.250	mg/L	EPA 300.0	NO PREP	6I22005

MW-2 RESAMP. 9/22/06 FOR NITRATE

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ANALYTICAL REPORT

Sample ID: MW-4
Lab #: A604193-02

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**183** D	87	100	ug/L
Antimony	7440-36-0	2 U, D	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	**40** I, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**12** D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**39600** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-4
Lab #: A604193-02

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**25.8**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1	U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**9.88**		0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**386**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-4A
Lab #: A604193-03

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	87 U, D	87	100	ug/L
Antimony	7440-36-0	**3** B, D	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	36 U, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**3** I, D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**26000** D	192	1000	ug/L
Thallium	7440-28-0	**0.3** I, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-4A
Lab #: A604193-03

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**24.5**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	**0.1**		0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**8.48**		0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**384**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-4B
Lab #: A604193-04

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**815** D	87	100	ug/L
Antimony	7440-36-0	**3** D, B	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	36 U, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	0.4 U, D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**10100** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-4B
Lab #: A604193-04

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**5.10**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1	U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**1.09**		0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**88**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-6A
Lab #: A604193-05

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**427** D	87	100	ug/L
Antimony	7440-36-0	**2** D, B	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	**8** I, D	6	10	ug/L
Iron	7439-89-6	**82** I, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**2** I, D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**3150** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-6A
Lab #: A604193-05

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**6.15** B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1 U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**5.65**	0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**154**	10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-8
Lab #: A604193-06

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	87 U, D	87	100	ug/L
Antimony	7440-36-0	**2** D, B	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	36 U, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	0.4 U, D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**5120** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-8
Lab #: A604193-06

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**8.63**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1	U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**2.50**		0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**204**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID:	MW-9A	Project:	Sumter Co. Landfill
Lab #:	A604193-07	Work Order #:	A604193
		Matrix:	Ground Water

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	**0.48**	0.11	0.20	ug/L	EPA 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**97** I, D	87	100	ug/L
Antimony	7440-36-0	2 U, D	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	**388** D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**93** D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**14700** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-9A
Lab #: A604193-07

Project: Sumter Co. Landfill
Work Order #: A604193
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	**0.2**		0.003	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**17.7**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1	U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**0.735**		0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**490**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-10
Lab #: A604193-08

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**918** D	87	100	ug/L
Antimony	7440-36-0	2 U, D	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	**2630** D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**66** D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**8950** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-10
Lab #: A604193-08

Project: Sumter Co. Landfill
Work Order #: A604193
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	**0.06**		0.003	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**8.68**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1	U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**1.16**		0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**330**		10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: MW-11
Lab #: A604193-09

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	**182** D	87	100	ug/L
Antimony	7440-36-0	2 U, D	2	2	ug/L
Cadmium	7440-43-9	**3** D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	**49** I, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**16** D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	**12400** D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: MW-11
Lab #: A604193-09

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**2.89** B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	0.1 U	0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	**3.70**	0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	**328**	10	10	mg/L	EPA 160.1	NO PREP	6I11009

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ANALYTICAL REPORT

Sample ID: EQB
Lab #: A604193-10

Project: Sumter Co. Landfill
Work Order #: A604193
Matrix: Ground Water

Metals by EPA 200 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 245.1	EPA 7470A	6I14009

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Aluminum	7429-90-5	87 U, D	87	100	ug/L
Antimony	7440-36-0	**2** D, B	2	2	ug/L
Cadmium	7440-43-9	2 U, D	2	2	ug/L
Chromium	7440-47-3	6 U, D	6	10	ug/L
Iron	7439-89-6	36 U, D	36	100	ug/L
Lead	7439-92-1	3 U, D	3	10	ug/L
Manganese	7439-96-5	**2** I, D	0.4	10	ug/L
Silver	7440-22-4	0.3 U, D	0.3	0.5	ug/L
Sodium	7440-23-5	192 U, D	192	1000	ug/L
Thallium	7440-28-0	0.2 U, D	0.2	1	ug/L

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ANALYTICAL REPORT

Sample ID: EQB
Lab #: A604193-10

Project: Sumter Co. Landfill
Work Order #: A604193
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	0.02	mg/L	EPA 350.1	NO PREP	6I11027
Chloride	16887-00-6	**1.66**	B	0.05	1.00	mg/L	EPA 300.0	Same 2	6I08016
Fluoride	16984-48-8	**7.9**		0.1	0.1	mg/L	EPA 300.0	Same 2	6I08016
Nitrate as N	NA	0.008	U	0.008	0.050	mg/L	EPA 300.0	Same 2	6I08016
Total Dissolved Solids	NA	10	U	10	10	mg/L	EPA 160.1	NO PREP	6I11009

Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann
5456 Hoffner Ave., Suite 201 Orlando, FL 32812
Phone: (407) 382-7733 Fax: (407)382-7744
Certification I. D. # E83033

Work Order #: 0609057
Report Date: 09/25/06

Report to:

Enco
10775 Central Port Dr.
Orlando, FL 32824
Attention: Ronnie Wambles

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

Signed Michael J. Naumann Date 9-25-06
Michael J. Naumann - President

Florida Radiochemistry Services, Inc.

Sample Login

Client:	**Enco Orlando**	**Date / Time Received**	**Work order #**
		09/11/06 09:38	**0609057**
Client Contact:	**Ronnie Wambles**		
Client P.O.			
Project I.D.	**A604193**		

Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
0609057-01	A604193-01	09/08/06 13:58	Ga, Ra226, Ra228
0609057-02	A604193-02	09/08/06 09:58	Ga, Ra226, Ra228
0609057-03	A604193-03	09/07/06 16:39	Ga, Ra226, Ra228
0609057-04	A604193-04	09/07/06 15:41	Ga, Ra226, Ra228
0609057-05	A604193-05	09/06/06 12:58	Ga, Ra226, Ra228
0609057-06	A604193-06	09/07/06 13:28	Ga, Ra226, Ra228
0609057-07	A604193-07	09/07/06 12:38	Ga, Ra226, Ra228
0609057-08	A604193-08	09/07/06 14:45	Ga, Ra226, Ra228
0609057-09	A604193-09	09/08/06 11:03	Ga, Ra226, Ra228
0609057-10	A604193-10	09/07/06 10:17	Ga, Ra226, Ra228

Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	0609057-01	0609057-02	0609057-03	0609057-04	0609057-05	0609057-06
Client I.D.	MW2 A604193-01	MW4 A604193-02	MW4A A604193-03	MW4B A604193-04	MW6A A604193-05	MW8 A604193-06
Gross Alpha	6.4	17.0	2.2	3.0	1.2	2.6
Error +/-	1.0	1.7	1.0	0.9	1.0	1.3
MDL	0.9	1.1	1.0	1.0	1.2	1.3
EPA Method	900.0	900.0	900.0	900.0	900.0	900.0
Prep Date	09/13/06	09/13/06	09/13/06	09/13/06	09/13/06	09/13/06
Analysis Date	09/14/06	09/14/06	09/14/06	09/14/06	09/14/06	09/14/06
Analyst	MJN	MJN	MJN	MJN	MJN	MJN
Radium 226	1.3	2.3	0.2	1.1	0.5	0.9
Error +/-	0.3	0.4	0.1	0.3	0.2	0.2
MDL	0.1	0.1	0.1	0.1	0.2	0.1
EPA Method	903.1	903.1	903.1	903.1	903.1	903.1
Prep Date	09/14/06	09/14/06	09/14/06	09/14/06	09/14/06	09/14/06
Analysis Date	09/22/06	09/22/06	09/22/06	09/22/06	09/22/06	09/22/06
Analyst	MJN	MJN	MJN	MJN	MJN	MJN
Radium 228	0.9U	0.9U	0.9U	0.8U	0.8U	0.8U
Error +/-	0.6	0.6	0.5	0.5	0.5	0.5
MDL	0.9	0.9	0.9	0.8	0.8	0.8
EPA Method	Ra-05	Ra-05	Ra-05	Ra-05	Ra-05	Ra-05
Prep Date	09/14/06	09/14/06	09/14/06	09/14/06	09/14/06	09/14/06
Analysis Date	09/20/06	09/20/06	09/20/06	09/20/06	09/20/06	09/20/06
Analyst	PJ	PJ	PJ	PJ	PJ	PJ
Units	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l

Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	0609057-07	0609057-08	0609057-09	0609057-10
Client I.D.	MW9A A604193-07	MW10 A604193-08	MW11 A604193-09	EQB A604193-10
Gross Alpha	6.4	3.2	7.9	0.8
Error +/-	1.1	1.6	1.6	0.6
MDL	1.0	1.5	1.5	0.8
EPA Method	900.0	900.0	900.0	900.0
Prep Date	09/13/06	09/13/06	09/13/06	09/13/06
Analysis Date	09/14/06	09/14/06	09/14/06	09/14/06
Analyst	MJN	MJN	MJN	MJN
Radium 226	2.3	0.3	3.0	0.2U
Error +/-	0.4	0.1	0.4	0.1
MDL	0.1	0.1	0.1	0.2
EPA Method	903.1	903.1	903.1	903.1
Prep Date	09/14/06	09/14/06	09/14/06	09/14/06
Analysis Date	09/22/06	09/22/06	09/22/06	09/22/06
Analyst	MJN	MJN	MJN	MJN
Radium 228	0.8U	0.8U	1.3	0.8U
Error +/-	0.5	0.5	0.6	0.4
MDL	0.8	0.8	0.8	0.8
EPA Method	Ra-05	Ra-05	Ra-05	Ra-05
Prep Date	09/14/06	09/14/06	09/14/06	09/14/06
Analysis Date	09/20/06	09/20/06	09/20/06	09/20/06
Analyst	PJ	PJ	PJ	PJ
Units	pCi/l	pCi/l	pCi/l	pCi/l

Florida Radiochemistry Services, Inc.

QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	0609053-01	09/14/06	<1.7	10.2	8.8	8.0	86	9.5
Radium 226	0609057-10	09/22/06	<0.2	25.2	25.5	25.2	101	1.2
Radium 228	0609057-10	09/20/06	<0.8	7.7	7.3	7.1	95	2.8

	Quality Control Limits
	% RPD
Gross Alpha	22.1
Radium 226	20.2
Radium 228	22.8

	Limits
	% Rec.
Gross Alpha	61-117
Radium 226	77-125
Radium 228	75-125

SUBCONTRACT ORDER

ENCO Orlando

A604193

SENDING LABORATORY:

ENCO Orlando
10775 Central Port Drive
Orlando, FL 32824
Phone: 407.826.5314
Fax: 407.850.6945
Project Manager: Ronald Wambles

RECEIVING LABORATORY:

FL Rad-Chem
5456 Hoffner Ave, Suite 201
Orlando, FL 32812
Phone :(407) 382-7733
Fax: 999
Project State of Origin: FL

Analysis	Due	Expires	Laboratory ID	Comments
MW-2 **Ground Water** **08-Sep-06 13:58**			A604193-01	
Radium 226	15-Sep-06 15:00	22-Sep-06 13:58		
Gross Alpha	15-Sep-06 15:00	08-Sep-06 13:58		
Radium 228	15-Sep-06 15:00	22-Sep-06 13:58		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-4 **Ground Water** **08-Sep-06 09:58**			A604193-02	
Radium 226	15-Sep-06 15:00	22-Sep-06 09:58		
Radium 228	15-Sep-06 15:00	22-Sep-06 09:58		
Gross Alpha	15-Sep-06 15:00	08-Sep-06 09:58		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-4A **Ground Water** **07-Sep-06 16:39**			A604193-03	
Radium 228	15-Sep-06 15:00	21-Sep-06 16:39		
Gross Alpha	15-Sep-06 15:00	07-Sep-06 16:39		
Radium 226	15-Sep-06 15:00	21-Sep-06 16:39		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-4B **Ground Water** **07-Sep-06 15:41**			A604193-04	
Radium 228	15-Sep-06 15:00	21-Sep-06 15:41		
Gross Alpha	15-Sep-06 15:00	07-Sep-06 15:41		
Radium 226	15-Sep-06 15:00	21-Sep-06 15:41		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			

Released By	Date	Received By	Date
J. Lucas	9-8-06	KWoods	9/11/06 9:38
Released By	Date	Received By	Date

SUBCONTRACT ORDER

ENCO Orlando

A604193

Analysis	Due	Expires	Laboratory ID	Comments
MW-6A **Ground Water** **08-Sep-06 12:58**			A604193-05	
Gross Alpha	15-Sep-06 15:00	08-Sep-06 12:58		
Radium 226	15-Sep-06 15:00	22-Sep-06 12:58		
Radium 228	15-Sep-06 15:00	22-Sep-06 12:58		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-8 **Ground Water** **07-Sep-06 13:28**			A604193-06	
Radium 228	15-Sep-06 15:00	21-Sep-06 13:28		
Gross Alpha	15-Sep-06 15:00	07-Sep-06 13:28		
Radium 226	15-Sep-06 15:00	21-Sep-06 13:28		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-9A **Ground Water** **07-Sep-06 12:38**			A604193-07	
Radium 226	15-Sep-06 15:00	21-Sep-06 12:38		
Radium 228	15-Sep-06 15:00	21-Sep-06 12:38		
Gross Alpha	15-Sep-06 15:00	07-Sep-06 12:38		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-10 **Ground Water** **07-Sep-06 14:45**			A604193-08	
Gross Alpha	15-Sep-06 15:00	07-Sep-06 14:45		
Radium 226	15-Sep-06 15:00	21-Sep-06 14:45		
Radium 228	15-Sep-06 15:00	21-Sep-06 14:45		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			
MW-11 **Ground Water** **08-Sep-06 11:03**			A604193-09	
Gross Alpha	15-Sep-06 15:00	08-Sep-06 11:03		
Radium 226	15-Sep-06 15:00	22-Sep-06 11:03		
Radium 228	15-Sep-06 15:00	22-Sep-06 11:03		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			

Released By	Date	Received By	Date
J. Lowe	9-8-06	K Woods	9/11/06 9:38
Released By	Date	Received By	Date

SUBCONTRACT ORDER

ENCO Orlando

A604193

Analysis	Due	Expires	Laboratory ID	Comments
EQB **Ground Water** **07-Sep-06 10:17**			A604193-10	
Gross Alpha	15-Sep-06 15:00	07-Sep-06 10:17		
Radium 226	15-Sep-06 15:00	21-Sep-06 10:17		
Radium 228	15-Sep-06 15:00	21-Sep-06 10:17		
Containers Supplied:				
1LP+HNO3 (A)	1LP+HNO3 (B)			

Released By	Date	Received By	Date
K. Corey	9-8-06	K Woods	9/11/06 4:38
Released By	Date	Received By	Date

3

FIELD LOG

PROJ #: _____ NAME: Dale Claxton

PROJECT NAME: Sumter County Landfill DATE: 9/8/06

PROJECT LOCATION: Sumterville, FL

TIME	COMMENTS
0820	On site. Checked in with Scale House.
0825	Asked about access to MW-6A from property on east side of Landfill. Entrance is Gated off. Jackie went around with me to east side. Will try to get permission from property owner to access well MW-6A from that property.
0840	Moving to MW-4.
0845	On location MW-4, setting up decon station.
0901	Set up decon station and field decon'ed SS ESP and WL probe FAW SOP-001/04 FL 1000. Preparing to calibrate field meters
0917	Calibrated field meters, see attached Calibration Log. Preparing to sample MW-4.
1010	Completed sampling MW-4, decon'ed ESP and WL probe. Moving to MW-11.
1015	On location MW-11, preparing to sample.
1110	Completed sampling MW-11, decon'ed ESP and WL probe. Moving to MW-6A.
1120	On location MW-6A. Have to carry equipment up berm to well, no access on east side of fence.
1215	Completed sampling MW-6A, decon'ed ESP and WL probe. Moving to MW-2.
1320	On location MW-2, preparing to sample.
1419	Completed sampling MW-2, rinsed and packed up equipment. Measuring well Water levels as follows.

Well #	WL (ft, btoc)	Well #	WL (ft, btoc)
MW-1	27.09'	MW-6A	34.18'
MW-2	25.82'	MW-7	29.30'
MW-2A	28.82'	MW-8	24.87'
MW-4	27.24'	*MW-9	28.59
MW-4A	32.43'	MW-9A	31.90
MW-4B	30.51'	MW-10	24.92
		MW-11	26.96'

1500	Completed Well water level. Turned in Well keys off site to meet Russ, Enco Loss.
1545	Relinquished samples to Russ, see attached COC.

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 9/8/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 25.82'	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 - 25.82' feet) X .16 gallons/foot = .976 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): ~27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'	PURGING INITIATED AT: 1336	PURGING ENDED AT: 1353	TOTAL VOLUME PURGED (gallons): 1.36

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)
1349	1.04	1.04	.08	25.93	6.72	27.96	.413	1.21	21.2	Clear	None
1351	.16	1.20	.08	25.93	6.71	28.14	.412	1.38	18.3	Clear	None
1353	.16	1.36	.08	25.93	6.70	28.21	.412	1.28	16.4	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1358
PUMP OR TUBING DEPTH IN WELL (feet): ~27'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-2	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

REMARKS

1336: Inserted SS ESP and new 3/8" PE tubing to ~27' btoc and began purging @ .08 gpm.

1342: WL 25.91' @ .08 gpm, GW is clear.

1347: WL 25.94' @ .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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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:	Sumter County Landfill	SITE LOCATION:	Sumterville, FL
WELL NO	MW-4	SAMPLE ID:	MW-4
DATE:	9/8/06		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2" PVC	3/8"		27.24'	ESP

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

1 WellVol = (36.35' feet − 27.24' feet) X .16 gallons/foot = 1.4576 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~ 29'	~ 29'	0934	0948	2.8

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)
0942	1.6	1.6	.2	27.24	7.04	27.05	.641	.38	14.9	Clear	None
0944	.4	2	.2	27.24	7.04	26.81	.635	.40	22.2	Clear	None
0946	.4	2.4	.2	27.24	7.04	26.96	.642	.42	17.3	Clear	None
0948	.4	2.8	.2	27.24	7.04	26.93	.644	.46	14.7	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
H. L. Claytor, Envirotech, LLC		0949	0958

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
~ 29'	< 250 mL	PE

FIELD DECONTAMINATION: Y / N	FIELD-FILTERED: Y / N	FILTER SIZE: ____ µm	DUPLICATE: Y / N
	Filtration Equipment Type:		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA228RA228	ESP
"	1	PE	250 mL	H2S04	None	---	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

REMARKS:

0934: Inserted SS ESP and new 3/8" PE tubing to ~ 29' stick and began purging @ .2 gpm.

0937: WL 27.26' @ .2 gpm, GW is clear.

0941: WL 27.24' @ .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 EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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)

.625
7.0
.75
1.8

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-4A	SAMPLE ID: MW-4A	DATE 9/7/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.44	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)

= (45.23 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 45 feet) + .125 gallons = .415 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~42'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~42'	PURGING INITIATED AT: 1607	PURGING ENDED AT: 1632	TOTAL VOLUME PURGED (gallons): 11.325

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)
1628	10.175	10.175	.30	32.55	6.98	26.81	.636	.19	11.9	Clear	None
1630	.60	10.775	.30	32.56	6.98	26.79	.635	.16	6.39	Clear	None
1632	.60	11.375	.30	32.55	6.98	26.79	.635	.15	4.50	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1632	SAMPLING ENDED AT: 1639
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: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4A	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP

REMARKS:

1607: Inserted SS ESP and new 3/8" PE tubing to ~42' BTOC and began purging @ .125 gpm.

1610: WL 32.49' @ .125 gpm, GW is turbid.

1612: GW is extremely turbid. Increased flow to ~1 gpm to clean up turbidity.

1619: GW is clearing up nicely, reduced flow to .125 gpm.

1622: Turbidity is going back up, increased flow to .3 gpm.

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

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

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

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: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO. MW-4B	SAMPLE ID: MW-4B	DATE: 9/7/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 30.50'	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 = (38.49 feet 30.50' feet) X .16 gallons/foot = 1.2784 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 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~32'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~32'	PURGING INITIATED AT: 1520	PURGING ENDED AT: 1535	TOTAL VOLUME PURGED (gallons) 1.875

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)
1531	1.325	1.325	.125	30.64'	9.69	26.95	.144	3.70	1.89	Clear	None
1533	.25	1.625	.125	30.63'	9.61	26.94	.148	3.60	1.23	Clear	None
1535	.25	1.875	.125	30.64'	9.52	26.95	.152	3.65	.91	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1535	SAMPLING ENDED AT: 1541
PUMP OR TUBING DEPTH IN WELL (feet): ~32'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4B	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP

REMARKS

1520: Inserted SS ESP and new 3/8" PE tubing to ~ 32' Stoc and began purging @ .125 gpm.
1523: WL 30.63' @ .125 gpm, GW is clear.
1526: WL 30.63' @ .125 gpm, drawdown is stable.
1530: WL 30.64' @ .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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-6A	SAMPLE ID: MW-6A	DATE: 9/8/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 34.10	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50.84' 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)
1 Equip Vol = .02 gallons + (.006 gallons/foot X 38' feet) + .125 gallons = .375 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~48'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~48'	PURGING INITIATED AT: 1155	PURGING ENDED AT: 1252	TOTAL VOLUME PURGED (gallons): 14.25

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)
1234	9.75	9.75	.25	34.17'	7.82	24.64	.245	6.17	21.4	Clear	None
1236	.5	10.25	.25	34.17'	7.94	24.58	.245	6.06	46.3	Slt Cloudy	None
1246	2.5	12.75	.25	34.18'	7.80	24.44	.244	6.17	23.3	Clear	None
1248	.5	13.25	.25	34.18'	7.80	24.42	.244	6.10	21.8	Clear	None
1250	.5	13.75	.25	34.18'	7.81	24.41	.244	6.21	20.9	Clear	None
1252	.5	14.25	.25	34.18'	7.81	24.42	.244	6.29	20.9	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1252	SAMPLING ENDED AT: 1258
PUMP OR TUBING DEPTH IN WELL (feet): ~48'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

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

REMARKS:

1155: Inserted SS ESP and new 3/8" PE tubing to ~48' btoc and began purging @ .25 gpm. This well has a history of extremely high turbidity. Will over purge until GW clears up.

1209: WL 34.14' @ .25 gpm, GW is slowly clearing up @ 85 NTUs.

1232: WL 34.17' @ .25 gpm, drawdown is stable. GW is clearing up.

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

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

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

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SITE LOCATION	
Sumter County Landfill	**Sumterville, FL**	
WELL NO: **MW-8**	SAMPLE ID: **MW-8**	DATE: 9/7/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2" PVC	**3/8"**		24.84	**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 .403
(only fill out if applicable)
1 Equip Vol = **.02** gallons + (**.006** gallons/foot X 43' feet) + **.125** gallons = ~~50~~ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~40'	~40'	1305	1318	1.625

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)
1314	1.125	1.125	.125	24.90	7.22	24.28	.377	2.96	1.43	Clear	None
1316	.25	1.375	.125	24.90	7.21	24.37	.377	2.91	.20	Clear	None
1318	.25	1.625	.125	24.90	7.21	24.46	.375	3.03	.45	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
H. L. Claytor, Envirotech, LLC		1319	1328
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): **< 250 mL**	TUBING MATERIAL CODE: **PE**	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-8	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP

REMARKS:

1305: Inserted SS ESP and new 3/8" PE tubing to ~40' btoc and began purging @ .125 gpm.

1308: WL 24.89' @ .125 gpm, GW is clear.

1310: WL 24.90' @ .125 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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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)

2.76

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-9A	SAMPLE ID: MW-9A	DATE: 9/7/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.90	PURGE PUMP TYPE OR BAILER: ESP

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

= (50.17' feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME .457
(only fill out if applicable)

1 Equip Vol = .02 gallons + (.006 gallons/foot X 52' feet) + .125 gallons = .58 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~47'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~47'	PURGING INITIATED AT: 1108	PURGING ENDED AT: 1229	TOTAL VOLUME PURGED (gallons): 7.47

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)
1225	7.15	7.15	.08	32.87'	6.46	25.29	.868	.41	19.1	Clear	None
1227	.16	7.31	.08	32.87'	6.46	25.22	.871	.18	17.6	Clear	None
1229	.16	7.47	.08	32.86'	6.46	25.26	.873	.19	12.3	Clear	None
								No Sheen			

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1238
PUMP OR TUBING DEPTH IN WELL (feet): ~47'	SAMPLE PUMP FLOW RATE (mL per minute): VOC's < 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-9A	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP

REMARKS:

1108: Inserted SS ESP and new 3/8" PE tubing to ~47' btoc and began purging @ .125 gpm.

1118: WL 32.08' @ .125 gpm, GW is extremely turbid. (Milky white) This well has a history of high turbidity. Will over purge until turbidity drops to 20 NTUs or less.

1130: Reduced flow to .08 gpm, turbidity still extremely high.

1140: GW still extremely turbid, continuing to purge.

1202: Turbidity 104 NTUs, continuing to purge.

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

(over)

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

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

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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 9/7/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.92	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 .427
(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: 1419	PURGING ENDED AT: 1438	TOTAL VOLUME PURGED (gallons): 4.75

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)
1434	3.75	3.75	.25	26.36'	6.26	24.99	.606	.23	18.8	Clear	None
1436	.5	4.25	.25	26.37'	6.27	25.00	.600	.23	16.8	Clear	None
1438	.5	4.75	.25	26.38'	6.26	25.01	.600	.26	14.4	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: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1438	SAMPLING ENDED AT: 1445
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: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-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

REMARKS:

1419: Inserted SS ESP and new 3/8" PE tubing to ~42' btoc and began purging @ .25 gpm.

1422: WL 26.25' @ .25 gpm, GW is slightly turbid.

1426: WL 26.34' @ .25 gpm, drawdown is stabilizing. GW still slightly turbid (43 NTU's).

1429: WL 26.31' @ .25 gpm, drawdown is stable. Turbidity 30 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 EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME	SITE LOCATION	
Sumter County Landfill	Sumterville, FL	
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 9/8/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2" PVC	3/8"		26.96'	ESP

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

= (40.15' feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME .403
(only fill out if applicable)

1 Equip Vol = .02 gallons + (.006 gallons/foot X 43' feet) + .125 gallons = ~~.405~~ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~37'	~37'	1025	1052	3.375

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)
1048	2.875	2.875	.125	27.07'	6.51	26.19	.591	.135	20.3	Clear	None
1050	.25	3.125	.125	27.07'	6.51	26.23	.593	.13	18.3	Clear	None
1052	.25	3.375	.125	27.06'	6.52	26.25	.596	.16	16.0	Clear	None
								No	sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
H. L. Claytor, Envirotech, LLC		1052	1103

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
~37'	< 250 mL	PE

FIELD DECONTAMINATION: (Y) N
FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type:
DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL 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

REMARKS:
1025: Inserted SS ESP and new 3/8" PE tubing to ~37' btoc and began purging @ .125 gpm.

1029: WL 27.06' @ .125 gpm, GW is turbid. Will purge until clear.

1035: WL 27.08' @ .125 gpm, drawdown is stable. GW still slightly turbid @ 36 NTUs.

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

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

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

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)

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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 32216-6069
(904) 296-3007 Fax (904) 296-6210

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

Client Name: Colinas Group	Project Number:
Address: 509 N. Virginia Ave	Project Name/Desc: Sumter County Landfill
City/ST/Zip: Winter Park, FL 32789	PO # / Billing Info:
Tel: 407-622-8176 Fax: 407-622-8196	Reporting Contact: Rick Potts
Sampler(s) Name, Affiliation (Print): Dale Clayton	Billing Contact:
Sampler(s) Signature:	Facility # (if required):

Requested Analyses

Gross Alpha 900.0/SM 7110B | Total Ammonia | Sb, Ca, Cr, Pb, Tl, As, Al, Fe, Mn, Hg, Na | Chloride, Fluoride, Nitrate, TDS

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: A604193

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)										Sample Comments
							NI	SI	NI	I							
1	MW-2	9/8/06	1358	G	GW	5	X	X	X	X							
2	MW-4	1	0958	G	GW	5	X	X	X	X							
3	MW-4A	9/7/06	1639	G	GW	5	X	X	X	X							
4	MW-4B	1	1541	G	GW	5	X	X	X	X							
5	MW-6A	9/8/06	1258	G	GW	5	X	X	X	X							
6	MW-8	9/7/06	1328	G	GW	5	X	X	X	X							
7	MW-9A		1238	G	GW	5	X	X	X	X							
8	MW-10		1445	G	GW	5	X	X	X	X							
9	MW-11	9/8/06	1103	G	GW	5	X	X	X	X							
10	EQB	9/7/06	1017	G	GW	5	X	X	X	X							

<-- Total # of Containers

Sample Kit Prepared By: LP	Date/Time: 8/24/06 16:55	Relinquished By: Lisa Ponti	Date/Time: 8/24/06 16:55	Received By:	Date/Time: 8/24/06 16:55
Comments:		Relinquished By:	Date/Time: 9/8/06 1545	Received By:	Date/Time: 9/8 1545
		Relinquished By:	Date/Time: 9/8/06 1640	Received By:	Date/Time: 9/8/06 16:40
		Cooler #'s & Temps on Receipt: LN17 3°C, SW-04 2°C, CR-1 3°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

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**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
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(919) 677-1669 Fax (919) 677-9846

Client Name: Colinas Group	Project Number:
Address: 509 N. Virginia Ave.	Project Name/Desc: Sumter County Landfill
City/ST/Zip: Winter Park, FL 32789	PO # / Billing Info:
Tel: 407-622-8176 Fax: 407-622-8196	Reporting Contact: Rick Potts
Sampler(s) Name, Affiliation (Print): Dale Clayton	Billing Contact:
Sampler(s) Signature:	Facility # (if required):

Requested Analyses

Nitrate

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder A604678

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary) I	Sample Comments
1	MW-2	9/22/06	1315	G	GW	1	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 9/22/06 1510	Received By	Date/Time
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 9/22/06 15:10
		Cooler #'s & Temps on Receipt EC-31, 20		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-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

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DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: NA	SAMPLE ID: EQB	DATE: 9/7/06

PURGING DATA

WELL ~~2" PVC~~ DIAMETER (inches):	TUBING 3/8" PE 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)

NA = (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)

NA = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
NA				

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)

DI Water

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:	SAMPLING ENDED AT: 1017
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) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
EQB	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	—	Chloride,Fluoride, Nitrate, TDS	ESP

REMARKS: Field decon'ed 5 gallon PE bucket, ~~and~~ SS ESP, and WL probe IAW DEP-SOP-001/01, FC 1000. ~~Inserted~~ Poured 1 gallon DI water into 5 gallon bucket, inserted ESP and WL probe and started pump, pumping DI water through ESP and over WL probe for 2 minutes, then collected EQB samples.

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

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

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

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 9000-8 (June 20, 2001) Page ___of___

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 Antoral Solution Exp' 4/11/08
Standard B Oakton pH Standard 10
Standard C Oakton Conductivity Standard .084 ms/cm
Standard D Lamotte 1 NTU Standard
Standard E Lamotte 10 NTU's Standard

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
9/7/06	1050	A	4.00	4.00		Yes	Init	[illegible]	pH
		B	10	10.00					pH
		C	.084	.085					Cond
		A	4.49	4.49					Cond
			—	8.01					DO
			—	27.05					Temp
		D	1	1.00					Turb
		E	10	9.99					Turb
9/7/06	1413	A	4.00	3.97		Yes	Cont	[illegible]	pH
			[illegible]						pH
			4.49	4.47					Cond
			[illegible]						Cond
			—	8.21					DO
			—	27.84					Temp
			1	.98					Turb
			10	9.97					Turb
9/8/06	0917		4.00	4.00		Yes	Cont	[illegible]	pH
			10.00	10.00					pH
			.084	.086					Cond
			4.49	4.49					Cond
			—	8.19					DO
			—	25.79					Temp
			1	.98					Turb
			10	10.01					Turb

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 200 Series Methods - Quality Control										
Batch 6I11006 - EPA 3005A										
Blank (6I11006-BLK1)				Prepared: 09/11/2006 11:00 Analyzed: 09/11/2006 19:59						
Aluminum	9 U	10	ug/L							
Antimony	0.281 B	0.2	ug/L							B
Cadmium	0.2 U	0.2	ug/L							
Chromium	0.6 U	1	ug/L							
Iron	4 U	10	ug/L							
Lead	0.3 U	1	ug/L							
Manganese	0.04 U	1	ug/L							
Silver	0.03 U	0.05	ug/L							
Sodium	19 U	100	ug/L							
Thallium	0.02 U	0.1	ug/L							
LCS (6I11006-BS1)				Prepared: 09/11/2006 11:00 Analyzed: 09/11/2006 20:04						
Aluminum	52.2	10	ug/L	50.0		104	85-115			
Antimony	51.2 B	0.2	ug/L	50.0		102	85-115			B
Cadmium	50.1	0.2	ug/L	50.0		100	85-115			
Chromium	49.7	1	ug/L	50.0		99	85-115			
Iron	49.3	10	ug/L	50.0		99	85-115			
Lead	50.4	1	ug/L	50.0		101	85-115			
Manganese	49.2	1	ug/L	50.0		98	85-115			
Silver	5.24	0.05	ug/L	5.00		105	85-115			
Sodium	499	100	ug/L	500		100	85-115			
Thallium	49.7	0.1	ug/L	50.0		99	85-115			
Matrix Spike (6I11006-MS1)		**Source: A604193-10**		Prepared: 09/11/2006 11:00 Analyzed: 09/11/2006 21:02						
Aluminum	578 D	100	ug/L	500	87 U	116	70-130			D
Antimony	512 D, B	2	ug/L	500	2.27	102	70-130			D B
Cadmium	499 D	2	ug/L	500	2 U	100	70-130			D
Chromium	497 D	10	ug/L	500	6 U	99	70-130			D
Iron	501 D	100	ug/L	500	36 U	100	70-130			D
Lead	513 D	10	ug/L	500	3 U	103	70-130			D
Manganese	497 D	10	ug/L	500	2.22	99	70-130			D
Silver	52.2 D	0.5	ug/L	50.0	0.3 U	104	70-130			D
Sodium	5120 D	1000	ug/L	5000	192 U	102	70-130			D
Thallium	506 D	1	ug/L	500	0.2 U	101	70-130			D
Matrix Spike Dup (6I11006-MSD1)		**Source: A604193-10**		Prepared: 09/11/2006 11:00 Analyzed: 09/11/2006 21:09						
Aluminum	560 D	100	ug/L	500	87 U	112	70-130	3	20	D
Antimony	524 D, B	2	ug/L	500	2.27	104	70-130	2	20	D B
Cadmium	501 D	2	ug/L	500	2 U	100	70-130	0.4	20	D
Chromium	511 D	10	ug/L	500	6 U	102	70-130	3	20	D
Iron	507 D	100	ug/L	500	36 U	101	70-130	1	20	D
Lead	510 D	10	ug/L	500	3 U	102	70-130	0.7	20	D
Manganese	495 D	10	ug/L	500	2.22	99	70-130	0.5	20	D
Silver	52.2 D	0.5	ug/L	50.0	0.3 U	104	70-130	0.09	20	D
Sodium	5260 D	1000	ug/L	5000	192 U	105	70-130	3	20	D
Thallium	501 D	1	ug/L	500	0.2 U	100	70-130	0.9	20	D
Post Spike (6I11006-PS1)		**Source: A604193-10**		Prepared: 09/11/2006 06:00 Analyzed: 09/11/2006 21:16						

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 200 Series Methods - Quality Control										
Batch 6I11006 - EPA 3005A										
Post Spike (6I11006-PS1) Continued		**Source: A604193-10**		Prepared: 09/11/2006 06:00 Analyzed: 09/11/2006 21:16						
Aluminum	;calculates t	0.01	mg/L	0.0495	0.0539	0.9	75-125			
Antimony	0.0521 B	0.0002	mg/L	0.0495	0.00225	101	75-125			B
Cadmium	0.0490	0.0002	mg/L	0.0495	3.82E-5	99	75-125			
Chromium	0.0490	0.001	mg/L	0.0495	-0.000910	101	75-125			
Iron	;calculates t	0.01	mg/L	0.0495	0.0156	68	75-125			
Lead	0.0504	0.001	mg/L	0.0495	-0.000295	102	75-125			
Manganese	0.0491	0.001	mg/L	0.0495	0.00220	95	75-125			
Silver	0.00507	0.00005	mg/L	0.00495	7.23E-6	102	75-125			
Sodium	0.469	0.1	mg/L	0.495	0.0782	79	75-125			
Thallium	0.0489	0.0001	mg/L	0.0495	1.88E-6	99	75-125			
Batch 6I14009 - EPA 7470A										
Blank (6I14009-BLK1)				Prepared: 09/14/2006 15:00 Analyzed: 09/15/2006 08:59						
Mercury	0.11 U	0.20	ug/L							
LCS (6I14009-BS1)				Prepared: 09/14/2006 15:00 Analyzed: 09/15/2006 10:38						
Mercury	5.37	0.20	ug/L	5.00		107	93-111			
Matrix Spike (6I14009-MS1)		**Source: A604193-10**		Prepared: 09/14/2006 15:00 Analyzed: 09/15/2006 12:35						
Mercury	5.42	0.20	ug/L	5.00	0.11 U	108	85-115			
Matrix Spike Dup (6I14009-MSD1)		**Source: A604193-10**		Prepared: 09/14/2006 15:00 Analyzed: 09/15/2006 09:11						
Mercury	5.07	0.20	ug/L	5.00	0.11 U	101	85-115	7	12	
Classical Chemistry Parameters - Quality Control										
Batch 6I08016 - Same 2										
Blank (6I08016-BLK1)				Prepared: 09/08/2006 14:10 Analyzed: 09/08/2006 14:49						
Nitrate as N	0.008 U	0.050	mg/L							
Fluoride	0.1 U	0.1	mg/L							
Chloride	1.15 B	1.00	mg/L							B
LCS (6I08016-BS1)				Prepared: 09/08/2006 14:10 Analyzed: 09/08/2006 15:09						
Nitrate as N	5.20	0.050	mg/L	5.00		104	90-110			
Fluoride	4.71	0.1	mg/L	5.00		94	90-110			
Chloride	275 B	1.00	mg/L	250		110	90-110			B
Matrix Spike (6I08016-MS1)		**Source: A604280-06**		Prepared: 09/08/2006 14:10 Analyzed: 09/08/2006 15:28						
Nitrate as N	10.5	0.050	mg/L	5.10	4.97	108	40-152			
Fluoride	5.22	0.1	mg/L	5.10	0.220	98	43-130			
Chloride	242 B	1.00	mg/L	255	6.61	92	51-149			B
Matrix Spike Dup (6I08016-MSD1)		**Source: A604280-06**		Prepared: 09/08/2006 14:10 Analyzed: 09/08/2006 15:48						
Nitrate as N	10.5	0.050	mg/L	5.10	4.97	109	40-152	0.5	23	
Fluoride	4.71	0.1	mg/L	5.10	0.220	88	90-110	10	25	
Chloride	245 B	1.00	mg/L	255	6.61	93	51-149	0.9	26	B
Batch 6I11009 - NO PREP										
Blank (6I11009-BLK1)				Prepared: 09/11/2006 10:45 Analyzed: 09/12/2006 22:40						
Total Dissolved Solids	10 U	10	mg/L							
LCS (6I11009-BS1)				Prepared: 09/11/2006 10:45 Analyzed: 09/12/2006 22:40						

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 6I11009 - NO PREP										
LCS (6I11009-BS1) Continued				Prepared: 09/11/2006 10:45 Analyzed: 09/12/2006 22:40						
Total Dissolved Solids	282	10	mg/L	300		94	86-118			
Duplicate (6I11009-DUP1)		**Source: A604193-02**		Prepared: 09/11/2006 10:45 Analyzed: 09/12/2006 22:40						
Total Dissolved Solids	390	10	mg/L		386			1	25	
Batch 6I11027 - NO PREP										
Blank (6I11027-BLK1)				Prepared: 09/11/2006 18:06 Analyzed: 09/12/2006 12:35						
Ammonia as N	0.003 U	0.02	mg/L							
LCS (6I11027-BS1)				Prepared: 09/11/2006 18:06 Analyzed: 09/12/2006 12:45						
Ammonia as N	0.997	0.02	mg/L	1.00		100	90-110			
Matrix Spike (6I11027-MS1)		**Source: A604173-06**		Prepared: 09/11/2006 18:06 Analyzed: 09/12/2006 12:56						
Ammonia as N	0.937	0.02	mg/L	1.00	0.003 U	94	90-110			
Matrix Spike Dup (6I11027-MSD1)		**Source: A604173-06**		Prepared: 09/11/2006 18:06 Analyzed: 09/12/2006 12:57						
Ammonia as N	0.917	0.02	mg/L	1.00	0.003 U	92	90-110	2	10	

NOTES AND DEFINITIONS

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
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.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
Aluminum Total EPA 200.8	Water	NELAC	E83182
Ammonia 350.1	Water	NELAC	E83182
Antimony Total EPA 200.8	Water	NELAC	E83182
Cadmium Total EPA 200.8	Water	NELAC	E83182
Chloride 300	Water	NELAC	E83182
Chromium Total EPA 200.8	Water	NELAC	E83182
Fluoride 300	Water	NELAC	E83182
Lead Total EPA 200.8	Water	NELAC	E83182
Manganese Total EPA 200.8	Water	NELAC	E83182
Mercury Total EPA 245.1	Water	NELAC	E83182
Nitrate as N 300	Water	NELAC	E83182
Silver Total EPA 200.8	Water	NELAC	E83182
TDS 160.1	Water	NELAC	E83182
Thallium Total EPA 200.8	Water	NELAC	E83182

Environmental Conservat Laboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

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Tuesday, September 19, 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: A604193

Dear Rick Potts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 8, 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)

The total number of pages in this report, including this page is 32.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-2 **Lab ID:** A604193-01

Sampled: 09/08/06 13:58 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/15/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/07/07	09/11/06 11:00	9/11/2006 21:29
EPA 200.8	03/07/07	09/11/06 11:00	9/12/2006 17:11
EPA 245.1	10/06/06	09/14/06 15:00	9/15/2006 09:15
EPA 300.0	09/10/06 13:58	09/08/06 14:10	9/13/2006 13:24
EPA 300.0	10/06/06	09/08/06 14:10	9/8/2006 19:42
EPA 300.0	10/06/06	09/08/06 14:10	9/18/2006 17:51
EPA 350.1	10/06/06	09/11/06 18:06	9/12/2006 13:00

Client ID: MW-4 **Lab ID:** A604193-02

Sampled: 09/08/06 09:58 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/15/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/07/07	09/11/06 11:00	9/11/2006 21:34
EPA 200.8	03/07/07	09/11/06 11:00	9/12/2006 17:17
EPA 245.1	10/06/06	09/14/06 15:00	9/15/2006 09:18
EPA 300.0	09/10/06 09:58	09/08/06 14:10	9/8/2006 20:40
EPA 300.0	10/06/06	09/08/06 14:10	9/8/2006 20:40
EPA 300.0	10/06/06	09/08/06 14:10	9/18/2006 18:12
EPA 350.1	10/06/06	09/11/06 18:06	9/12/2006 13:01

Client ID: MW-4A **Lab ID:** A604193-03

Sampled: 09/07/06 16:39 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/14/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/06/07	09/11/06 11:00	9/11/2006 21:40
EPA 245.1	10/05/06	09/14/06 15:00	9/15/2006 09:21
EPA 300.0	09/09/06 16:39	09/08/06 14:10	9/8/2006 21:00
EPA 300.0	10/05/06	09/08/06 14:10	9/8/2006 21:00
EPA 300.0	10/05/06	09/08/06 14:10	9/18/2006 18:32
EPA 350.1	10/05/06	09/11/06 18:06	9/12/2006 13:04

Client ID: MW-4B **Lab ID:** A604193-04

Sampled: 09/07/06 15:41 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/14/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/06/07	09/11/06 11:00	9/11/2006 21:45
EPA 245.1	10/05/06	09/14/06 15:00	9/15/2006 09:24
EPA 300.0	09/09/06 15:41	09/08/06 14:10	9/8/2006 21:19
EPA 300.0	10/05/06	09/08/06 14:10	9/8/2006 21:19
EPA 300.0	10/05/06	09/08/06 14:10	9/18/2006 19:54
EPA 350.1	10/05/06	09/11/06 18:06	9/12/2006 13:06

Client ID: MW-6A **Lab ID:** A604193-05

Sampled: 09/08/06 12:58 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/15/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/07/07	09/11/06 11:00	9/11/2006 21:51
EPA 245.1	10/06/06	09/14/06 15:00	9/15/2006 09:27
EPA 300.0	09/10/06 12:58	09/08/06 14:10	9/8/2006 21:39
EPA 300.0	10/06/06	09/08/06 14:10	9/8/2006 21:39
EPA 300.0	10/06/06	09/08/06 14:10	9/18/2006 20:15
EPA 350.1	10/06/06	09/11/06 18:06	9/12/2006 13:07

Client ID: MW-8 **Lab ID:** A604193-06

Sampled: 09/07/06 13:28 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/14/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/06/07	09/11/06 11:00	9/11/2006 22:42
EPA 245.1	10/05/06	09/14/06 15:00	9/15/2006 09:39
EPA 300.0	09/09/06 13:28	09/08/06 14:10	9/8/2006 21:58
EPA 300.0	10/05/06	09/08/06 14:10	9/8/2006 21:58
EPA 300.0	10/05/06	09/08/06 14:10	9/18/2006 20:35
EPA 350.1	10/05/06	09/11/06 18:06	9/12/2006 13:08

Client ID: MW-9A **Lab ID:** A604193-07

Sampled: 09/07/06 12:38 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/14/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/06/07	09/11/06 11:00	9/11/2006 22:47
EPA 245.1	10/05/06	09/14/06 15:00	9/15/2006 09:43
EPA 300.0	09/09/06 12:38	09/08/06 14:10	9/8/2006 22:18
EPA 300.0	10/05/06	09/08/06 14:10	9/8/2006 22:18
EPA 300.0	10/05/06	09/08/06 14:10	9/18/2006 21:16
EPA 350.1	10/05/06	09/11/06 18:06	9/12/2006 13:09

Client ID: MW-10 **Lab ID:** A604193-08

Sampled: 09/07/06 14:45 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/14/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/06/07	09/11/06 11:00	9/11/2006 22:53
EPA 245.1	10/05/06	09/14/06 15:00	9/15/2006 09:46
EPA 300.0	09/09/06 14:45	09/08/06 14:10	9/8/2006 22:38
EPA 300.0	10/05/06	09/08/06 14:10	9/8/2006 22:38
EPA 300.0	10/05/06	09/08/06 14:10	9/18/2006 21:37
EPA 350.1	10/05/06	09/11/06 18:06	9/12/2006 13:10

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Client ID: MW-11 **Lab ID:** A604193-09

Sampled: 09/08/06 11:03 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/15/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/07/07	09/11/06 11:00	9/11/2006 22:58
EPA 245.1	10/06/06	09/14/06 15:00	9/15/2006 09:49
EPA 300.0	09/10/06 11:03	09/08/06 14:10	9/8/2006 22:57
EPA 300.0	10/06/06	09/08/06 14:10	9/8/2006 22:57
EPA 300.0	10/06/06	09/08/06 14:10	9/18/2006 21:58
EPA 350.1	10/06/06	09/11/06 18:06	9/12/2006 13:12

Client ID: EQB **Lab ID:** A604193-10

Sampled: 09/07/06 10:17 **Received:** 09/08/06 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	09/14/06	09/11/06 10:45	9/12/2006 22:40
EPA 200.8	03/06/07	09/11/06 11:00	9/11/2006 20:57
EPA 245.1	10/05/06	09/14/06 15:00	9/15/2006 12:32
EPA 300.0	09/09/06 10:17	09/08/06 14:10	9/8/2006 23:17
EPA 300.0	10/05/06	09/08/06 14:10	9/8/2006 23:17
EPA 300.0	10/05/06	09/08/06 14:10	9/18/2006 22:18
EPA 350.1	10/05/06	09/11/06 18:06	9/12/2006 13:13

Environmental Conservati Laboratories, Inc.
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Thursday, September 28, 2006

The Colinas Group (CO016)

Attn: Rick Potts

509 N. Virginia Ave.

Winter Park, FL 32789

RE: Project Number: [none], Project Name/Desc: Sumter County Landfill
ENCO Workorder: A604678

Dear Rick Potts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 22, 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 M. Camacho

David Camacho For Ronald Wambles

Project Manager

Enclosure(s)

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-2 **Lab ID:** A604678-01

Sampled: 09/22/06 13:15 **Received:** 09/22/06 15:10

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	09/24/06 13:15	09/22/06 16:04	9/26/2006 17:32

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SAMPLE DETECTION SUMMARY

Client ID: MW-2 **Lab ID: A604678-01**

Analyte	Results/Qual	MRL	Units	Method
Nitrate as N	19.3 D	0.250	mg/L	EPA 300.0

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 6I22005 - NO PREP										
Blank (6I22005-BLK1)				Prepared: 09/22/2006 10:04 Analyzed: 09/22/2006 11:44						
Nitrate as N	0.008 U	0.050	mg/L							
LCS (6I22005-BS1)				Prepared: 09/22/2006 10:04 Analyzed: 09/22/2006 12:03						
Nitrate as N	4.67	0.050	mg/L	5.00		93	90-110			
Matrix Spike (6I22005-MS1)		**Source: A604455-04**		Prepared: 09/22/2006 10:04 Analyzed: 09/22/2006 12:21						
Nitrate as N	4.72	0.050	mg/L	5.10	0.008 U	93	90-110			
Matrix Spike Dup (6I22005-MSD1)		**Source: A604455-04**		Prepared: 09/22/2006 10:04 Analyzed: 09/22/2006 12:40						
Nitrate as N	4.74	0.050	mg/L	5.10	0.008 U	93	90-110	0.5	23	

NOTES AND DEFINITIONS

D	Data reported from a dilution
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
Nitrate as N 300	Water	NELAC	E83182