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**ENTERPRISE CLASS III LANDFILL
AND RECYCLING FACILITY
SEMIANNUAL COMPLIANCE MONITORING REPORT**

FIRST SEMIANNUAL 2007

DEP PERMIT NO. 177982-008-SC

DEP Due Date: July 15, 2007

**Dept. of Environmental
Protection**


JUL 13 2007

Prepared by:

Southwest District

**HDR ENGINEERING, INC.
200 W. FORSYTH STREET, SUITE 800
JACKSONVILLE, FL 32202-4321**

July 2007


John D. Locklear, P.G.
Florida License No. 2467

July 12, 2007

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

RE: Compliance Monitoring Report – First Semiannual 2007
Enterprise Recycling & Disposal Facility
Permit No. 177982-008-SC and 177982-007-SO
HDR Project Number:

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUL 13 2007
SOUTHWEST DISTRICT
TAMPA

Dear Mr. Morris:

This report presents data from the semiannual sampling event at Angelo's Enterprise Recycling & Disposal Facility on May 4 and 7, 2007.

All groundwater wells, which require sampling, were sampled during this event for the parameters listed in Specific Condition 4.c. of the permit with the exception of MW-1 which had no access, MW-1B which was damaged, and MW-3A, MW-4A, MW-8, MW-9, and MW-10 which were dry. A minor permit modification application has been submitted to the Department addressing the relocation/replacement of monitoring wells MW-1 and MW-1B. Pond 1 was sampled and analyzed for the parameters listed in Specific Condition 8.b. of the permit. Quality Assurance/Quality Control samples were also collected.

As we discussed earlier this month, monitoring wells MW-4A, MW-8, MW-9 and MW-10 are surficial aquifer monitoring wells. Water levels within the surficial aquifer have declined in recent years and may not be laterally continuous in all areas. Each monitoring location with a dry surficial aquifer well has an existing Floridan aquifer well installed in a cluster. Groundwater samples were collected from each Floridan aquifer well as required by permit; therefore, the Floridan aquifer monitoring well represents the uppermost waterbearing unit. No additional well installation is required per our discussion.

Parameters reported at or outside groundwater standards are presented in Attachment 2.

If you have any questions regarding this report, please contact me at (352) 682-0781.

Sincerely,

John D. Locklear, P.G.
Senior Project Manager

C:\Environmental\Environmental\EnvDocs\Angelos Enterprise\07S1\07S1_letter.doc

Xc: Jeff Rogers, Angelo's
Andy Alipour, Pasco County

Attachment 1: Groundwater Elevation Data and Groundwater Contour Map
Attachment 2: Analysis Results Compared to Groundwater Standards
Attachment 3: Groundwater Parameters At or Above the Laboratory Detection Limit
Attachment 4: Parameter Monitoring Report Forms
Attachment 5: Original Laboratory Data Including Chain-Of-Custody Forms



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ANALYTICAL REPORT

Sample ID: POND 1
Lab #: A702592-07
Prep. Method: EPA 5030B_MS
Analyzed: 05/11/07 By: kdm
Anal. Method: EPA 8260B
Anal. Batch: AA00871
QC Batch: 7E11007

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Volatile Organic Compounds by GCMS

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



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ANALYTICAL REPORT

Sample ID: POND 1
 Lab #: A702592-07
 Prep. Method: EPA 5030B_MS
 Analyzed: 05/11/07 By: kdm
 Anal. Method: EPA 8260B
 Anal. Batch: AA00871
 QC Batch: 7E11007

Project: Angelo's Enterprise
 Work Order #: A702592
 Matrix: Ground Water
 Unit: ug/L
 Dilution Factor: 1

Volatile Organic Compounds by GCMS

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

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	40	50.0	79 %	64-133
Dibromofluoromethane	1868-53-7	48	50.0	96 %	66-137
Toluene-d8	2037-26-5	37 S-GC	50.0	73 %	76-125



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ANALYTICAL REPORT

Sample ID: POND 1
Lab #: A702592-07
Prep. Method: EPA 504/8011
Analyzed: 05/11/07 By: RSA
Anal. Method: EPA 8011
Anal. Batch:
QC Batch: 7E11006

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Semivolatile Organic Compounds by GC

<u>Parameter</u>	<u>CAS Number</u>	<u>Analytical Results</u>	<u>MDL</u>	<u>MRL</u>	<u>Units</u>
1,2-Dibromo-3-chloropropane	96-12-8	0.004 U	0.004	0.020	ug/L
1,2-Dibromoethane	106-93-4	0.004 U	0.004	0.020	ug/L

<u>Surrogate Recovery</u>	<u>Result</u>	<u>Spike Level</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>	
1,3-Dichlorobenzene	541-73-1	0.17	0.140	118 %	83-150



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ANALYTICAL REPORT

Sample ID: POND 1
Lab #: A702592-07

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7E08007



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ANALYTICAL REPORT

Sample ID: POND 1
Lab #: A702592-07

Project: Angelo's Enterprise
Work Order #: A702592
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	0.005 I	0.003	0.020	mg/L	EPA 350.1	NO PREP	7E11001
Chloride	16887-00-6	5.3	0.05	1.0	mg/L	EPA 300.0	NA	7E08009
Nitrate as N	14797-55-8	0.21	0.008	0.050	mg/L	EPA 300.0	NA	7E08009
Total Dissolved Solids	NA	190	10	10	mg/L	EPA 160.1	NO PREP	7E09010



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ANALYTICAL REPORT

Sample ID: POND 1
Lab #: A702592-07

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water

Field Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Dissolved Oxygen	NA	7.53	0.00	0.00	mg/L	Field	NO PREP	6L18033
pH	NA	8.44			pH Units	Field	NO PREP	6L18033
Specific Conductance (EC)	NA	252	0.00	0.00	umhos/cm	Field	NO PREP	6L18033
Temperature	NA	29.44	0.00	0.00	°C	Field	NO PREP	6L18033
Turbidity	NA	98.1	0.00	0.00	NTU	Field	NO PREP	6L18033



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ANALYTICAL REPORT

Sample ID: POND 1
Lab #: A702592-07RE1

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.771 I	0.760	5.00	ug/L	EPA 6020	EPA 3005A	7E08005
Arsenic	7440-38-2	3.39 I	0.980	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Barium	7440-39-3	33.2 I	1.30	100	ug/L	EPA 6020	EPA 3005A	7E08005
Beryllium	7440-41-7	0.810 U	0.810	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Cadmium	7440-43-9	0.300 U	0.300	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Chromium	7440-47-3	5.83 I	1.20	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Cobalt	7440-48-4	0.260 U	0.260	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Copper	7440-50-8	5.78 I	0.630	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Iron	7439-89-6	1700	6.70	50.0	ug/L	EPA 6020	EPA 3005A	7E08005
Lead	7439-92-1	2.19 I	0.170	5.00	ug/L	EPA 6020	EPA 3005A	7E08005
Nickel	7440-02-0	0.470 U	0.470	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Selenium	7782-49-2	1.70 U	1.70	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Silver	7440-22-4	0.200 U	0.200	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Sodium	7440-23-5	4750	16.0	1000	ug/L	EPA 6020	EPA 3005A	7E08005
Thallium	7440-28-0	0.290 U	0.290	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Vanadium	7440-62-2	11.9	0.380	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Zinc	7440-66-6	46.0 I	1.90	50.0	ug/L	EPA 6020	EPA 3005A	7E08005



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ANALYTICAL REPORT

Sample ID: EQUIPMENT BLANK
Lab #: A702592-10
Prep. Method: EPA 5030B_MS
Analyzed: 05/11/07 By: kdm
Anal. Method: EPA 8260B
Anal. Batch: AA00871
QC Batch: 7E11007

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Volatile Organic Compounds by GCMS

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



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ANALYTICAL REPORT

Sample ID: EQUIPMENT BLANK
Lab #: A702592-10
Prep. Method: EPA 5030B_MS
Analyzed: 05/11/07 By: kdm
Anal. Method: EPA 8260B
Anal. Batch: AA00871
QC Batch: 7E11007

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Volatile Organic Compounds by GCMS

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

<u>Surrogate Recovery</u>		<u>Result</u>	<u>Spike Level</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>
4-Bromofluorobenzene	460-00-4	39	50.0	77 %	64-133
Dibromofluoromethane	1868-53-7	47	50.0	94 %	66-137
Toluene-d8	2037-26-5	35 S-GC	50.0	71 %	76-125



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ANALYTICAL REPORT

Sample ID: EQUIPMENT BLANK
Lab #: A702592-10
Prep. Method: EPA 504/8011
Analyzed: 05/11/07 By: RSA
Anal. Method: EPA 8011
Anal. Batch:
QC Batch: 7E11006

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Semivolatile Organic Compounds by GC

<u>Parameter</u>	<u>CAS Number</u>	<u>Analytical Results</u>	<u>MDL</u>	<u>MRL</u>	<u>Units</u>
1,2-Dibromo-3-chloropropane	96-12-8	0.004 U	0.004	0.020	ug/L
1,2-Dibromoethane	106-93-4	0.004 U	0.004	0.020	ug/L
<u>Surrogate Recovery</u>		<u>Result</u>	<u>Spike Level</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>
1,3-Dichlorobenzene	541-73-1	0.19	0.140	136 %	83-150



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ANALYTICAL REPORT

Sample ID: EQUIPMENT BLANK
Lab #: A702592-10

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.056 I	0.0	0.20	ug/L	EPA 7470A	EPA 7470A	7E08007



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ANALYTICAL REPORT

Sample ID: EQUIPMENT BLANK
Lab #: A702592-10

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.020	mg/L	EPA 350.1	NO PREP	7E11001
Chloride	16887-00-6	0.71 I	0.05	1.0	mg/L	EPA 300.0	NA	7E08009
Nitrate as N	14797-55-8	0.008 U	0.008	0.050	mg/L	EPA 300.0	NA	7E08009
Total Dissolved Solids	NA	10 U	10	10	mg/L	EPA 160.1	NO PREP	7E09010



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ANALYTICAL REPORT

Sample ID: EQUIPMENT BLANK
Lab #: A702592-10RE1

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	1.12 I	0.760	5.00	ug/L	EPA 6020	EPA 3005A	7E08005
Arsenic	7440-38-2	0.980 U	0.980	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Barium	7440-39-3	4.13 I	1.30	100	ug/L	EPA 6020	EPA 3005A	7E08005
Beryllium	7440-41-7	0.810 U	0.810	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Cadmium	7440-43-9	0.300 U	0.300	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Chromium	7440-47-3	6.50 I	1.20	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Cobalt	7440-48-4	0.260 U	0.260	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Copper	7440-50-8	6.76 I	0.630	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Iron	7439-89-6	82.0	6.70	50.0	ug/L	EPA 6020	EPA 3005A	7E08005
Lead	7439-92-1	0.170 U	0.170	5.00	ug/L	EPA 6020	EPA 3005A	7E08005
Nickel	7440-02-0	9.37 I	0.470	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Selenium	7782-49-2	1.70 U	1.70	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Silver	7440-22-4	0.200 U	0.200	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Sodium	7440-23-5	141 I	16.0	1000	ug/L	EPA 6020	EPA 3005A	7E08005
Thallium	7440-28-0	0.290 U	0.290	1.00	ug/L	EPA 6020	EPA 3005A	7E08005
Vanadium	7440-62-2	4.04 I	0.380	10.0	ug/L	EPA 6020	EPA 3005A	7E08005
Zinc	7440-66-6	44.1 I	1.90	50.0	ug/L	EPA 6020	EPA 3005A	7E08005



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ANALYTICAL REPORT

Sample ID: Trip Blank
Lab #: A702592-11
Prep. Method: EPA 5030B_MS
Analyzed: 05/11/07 By: kdm
Anal. Method: EPA 8260B
Anal. Batch: AA00871
QC Batch: 7E11007

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Volatile Organic Compounds by GCMS

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



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ANALYTICAL REPORT

Sample ID: Trip Blank
Lab #: A702592-11
Prep. Method: EPA 5030B_MS
Analyzed: 05/11/07 By: kdm
Anal. Method: EPA 8260B
Anal. Batch: AA00871
QC Batch: 7E11007

Project: Angelo's Enterprise
Work Order #: A702592
Matrix: Ground Water
Unit: ug/L
Dilution Factor: 1

Volatile Organic Compounds by GCMS

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

<u>Surrogate Recovery</u>		<u>Result</u>	<u>Spike Level</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>
4-Bromofluorobenzene	460-00-4	40	50.0	80 %	64-133
Dibromofluoromethane	1868-53-7	48	50.0	95 %	66-137
Toluene-d8	2037-26-5	36	50.0	73 %	76-125



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QUALITY CONTROL

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

Batch 7E11007 - EPA 5030B_MS

Prepared: 05/11/2007 10:44 Analyzed: 05/11/2007 13:00

Blank (7E11007-BLK1)

Chloromethane	0.82 U	1.0	ug/L
Vinyl chloride	0.52 U	1.0	ug/L
Bromomethane	0.80 U	1.0	ug/L
Chloroethane	0.66 U	1.0	ug/L
Trichlorofluoromethane	0.70 U	1.0	ug/L
Acetone	2.6 U	5.0	ug/L
1,1-Dichloroethene	0.83 U	1.0	ug/L
Iodomethane	0.81 U	3.0	ug/L
Carbon disulfide	0.97 U	5.0	ug/L
Methylene chloride	1.0 U	2.0	ug/L
Acrylonitrile	1.7 U	2.0	ug/L
trans-1,2-Dichloroethene	0.83 U	1.0	ug/L
cis-1,2-Dichloroethene	0.75 U	1.0	ug/L
1,1-Dichloroethane	0.60 U	1.0	ug/L
Vinyl acetate	0.20 U	1.0	ug/L
2-Butanone	1.0 U	5.0	ug/L
Chloroform	0.89 U	1.0	ug/L
Bromochloromethane	0.93 U	1.0	ug/L
1,1,1-Trichloroethane	0.88 U	1.0	ug/L
Carbon tetrachloride	0.85 U	1.0	ug/L
1,2-Dichloroethane	0.94 U	1.0	ug/L
Benzene	0.48 U	1.0	ug/L
Trichloroethene	0.71 U	1.0	ug/L
1,2-Dichloropropane	0.97 U	1.0	ug/L
Bromodichloromethane	0.22 U	0.40	ug/L
Dibromomethane	0.42 U	1.0	ug/L
4-Methyl-2-pentanone	1.6 U	5.0	ug/L
2-Hexanone	2.1 U	5.0	ug/L
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L
Toluene	0.25 U	1.0	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
1,1,2-Trichloroethane	0.44 U	1.0	ug/L
Tetrachloroethene	0.65 U	1.0	ug/L
Dibromochloromethane	0.20 U	0.20	ug/L
Chlorobenzene	0.21 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.24 U	1.0	ug/L
Ethylbenzene	0.99 U	1.0	ug/L
m,p-Xylenes	0.55 U	1.0	ug/L
o-Xylene	0.60 U	1.0	ug/L
Bromoform	0.48 U	1.0	ug/L
Styrene	0.19 U	1.0	ug/L
1,2,3-Trichloropropane	0.34 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.20 U	0.20	ug/L
trans-1,4-Dichloro-2-butene	0.61 U	1.0	ug/L
1,4-Dichlorobenzene	0.24 U	1.0	ug/L



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QUALITY CONTROL

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

Batch 7E11007 - EPA 5030B_MS

Blank (7E11007-BLK1) Continued

Prepared: 05/11/2007 10:44 Analyzed: 05/11/2007 13:00

1,2-Dichlorobenzene	0.27 U	1.0	ug/L							
Xylenes (Total)	0.60 U	1.0	ug/L							
Surrogate: Dibromofluoromethane	42		ug/L	50.0		85	66-137			
Surrogate: Toluene-d8	41		ug/L	50.0		81	76-125			
Surrogate: 4-Bromofluorobenzene	38		ug/L	50.0		75	64-133			

LCS (7E11007-BS1)

Prepared: 05/11/2007 10:44 Analyzed: 05/11/2007 12:30

1,1-Dichloroethene	16	1.0	ug/L	20.0		81	55.1-177			
Benzene	17	1.0	ug/L	20.0		85	64.9-144			
Trichloroethene	19	1.0	ug/L	20.0		94	70.2-128			
Toluene	16	1.0	ug/L	20.0		80	68.4-128			
Chlorobenzene	17	1.0	ug/L	20.0		84	63.5-136			
Surrogate: Dibromofluoromethane	56		ug/L	50.0		112	66-137			
Surrogate: Toluene-d8	49		ug/L	50.0		99	76-125			
Surrogate: 4-Bromofluorobenzene	47		ug/L	50.0		94	64-133			

Matrix Spike (7E11007-MS1)

Source: A702592-01

Prepared: 05/11/2007 10:44 Analyzed: 05/11/2007 13:29

1,1-Dichloroethene	19	1.0	ug/L	20.0	0.83 U	93	55.1-177			
Benzene	15	1.0	ug/L	20.0	0.48 U	76	65-143			
Trichloroethene	22	1.0	ug/L	20.0	0.71 U	111	70.2-128			
Toluene	16	1.0	ug/L	20.0	0.25 U	79	68.4-128			
Chlorobenzene	17	1.0	ug/L	20.0	0.21 U	86	63.5-136			
Surrogate: Dibromofluoromethane	47		ug/L	50.0		94	66-137			
Surrogate: Toluene-d8	54		ug/L	50.0		108	76-125			
Surrogate: 4-Bromofluorobenzene	42		ug/L	50.0		84	64-133			

Matrix Spike Dup (7E11007-MSD1)

Source: A702592-01

Prepared: 05/11/2007 10:44 Analyzed: 05/11/2007 13:58

1,1-Dichloroethene	18	1.0	ug/L	20.0	0.83 U	89	55.1-177	4	15.6	
Benzene	15	1.0	ug/L	20.0	0.48 U	77	65-143	1	11.8	
Trichloroethene	18 QR-02	1.0	ug/L	20.0	0.71 U	92	70.2-128	18	13.3	QR-02
Toluene	15	1.0	ug/L	20.0	0.25 U	77	68.4-128	3	12.4	
Chlorobenzene	17	1.0	ug/L	20.0	0.21 U	83	63.5-136	4	18.9	
Surrogate: Dibromofluoromethane	53		ug/L	50.0		106	66-137			
Surrogate: Toluene-d8	44		ug/L	50.0		88	76-125			
Surrogate: 4-Bromofluorobenzene	42		ug/L	50.0		84	64-133			

Semivolatiles Organic Compounds by GC - Quality Control

Batch 7E11006 - EPA 504/8011

Blank (7E11006-BLK1)

Prepared: 05/11/2007 10:25 Analyzed: 05/11/2007 14:19

1,2-Dibromoethane	0.004 U	0.020	ug/L							
1,2-Dibromo-3-chloropropane	0.004 U	0.020	ug/L							
Surrogate: 1,3-Dichlorobenzene	0.25		ug/L	0.250		99	83-150			

LCS (7E11006-BS1)

Prepared: 05/11/2007 10:25 Analyzed: 05/11/2007 14:29

1,2-Dibromoethane	0.26	0.020	ug/L	0.250		103	47-158			
1,2-Dibromo-3-chloropropane	0.24	0.020	ug/L	0.250		97	54-141			



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QUALITY CONTROL

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

Batch 7E11006 - EPA 504/8011

LCS (7E11006-BS1) Continued

Prepared: 05/11/2007 10:25 Analyzed: 05/11/2007 14:29

Surrogate: 1,3-Dichlorobenzene 0.16 ug/L 0.140 114 83-150

Matrix Spike (7E11006-MS1)

Source: A702542-01

Prepared: 05/11/2007 10:25 Analyzed: 05/11/2007 14:40

1,2-Dibromoethane 0.25 0.020 ug/L 0.250 0.004 U 101 47-158

1,2-Dibromo-3-chloropropane 0.24 0.020 ug/L 0.250 0.004 U 96 54-141

Surrogate: 1,3-Dichlorobenzene 0.15 ug/L 0.140 108 83-150

Matrix Spike Dup (7E11006-MSD1)

Source: A702542-01

Prepared: 05/11/2007 10:25 Analyzed: 05/11/2007 14:51

1,2-Dibromoethane 0.26 0.020 ug/L 0.250 0.004 U 103 47-158 2 6.8

1,2-Dibromo-3-chloropropane 0.25 0.020 ug/L 0.250 0.004 U 99 54-141 3 8.3

Surrogate: 1,3-Dichlorobenzene 0.19 ug/L 0.140 137 83-150

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7E08005 - EPA 3005A

Blank (7E08005-BLK1)

Prepared: 05/08/2007 13:31 Analyzed: 05/12/2007 06:05

Antimony 0.760 U 5.00 ug/L

Lead 0.609 I 5.00 ug/L

Sodium 16.0 U 1000 ug/L

Thallium 0.290 U 1.00 ug/L

Blank (7E08005-BLK2)

Prepared: 05/08/2007 13:31 Analyzed: 05/15/2007 00:15

Antimony 0.760 U 5.00 ug/L

Arsenic 0.980 U 10.0 ug/L

Barium 1.30 U 100 ug/L

Beryllium 0.810 U 1.00 ug/L

Cadmium 0.300 U 1.00 ug/L

Chromium 1.20 U 10.0 ug/L

Cobalt 0.260 U 10.0 ug/L

Copper 0.630 U 10.0 ug/L

Iron 6.70 U 50.0 ug/L

Lead 0.170 U 5.00 ug/L

Nickel 0.470 U 10.0 ug/L

Selenium 1.70 U 10.0 ug/L

Silver 0.200 U 1.00 ug/L

Sodium 16.0 U 1000 ug/L

Thallium 0.290 U 1.00 ug/L

Vanadium 0.380 U 10.0 ug/L

Zinc 5.10 I 50.0 ug/L

LCS (7E08005-BS1)

Prepared: 05/08/2007 13:31 Analyzed: 05/12/2007 06:10

Antimony 56.9 5.00 ug/L 60.0 95 85-115

Arsenic 565 10.0 ug/L 600 94 85-115

Barium 597 100 ug/L 600 100 85-115

Beryllium 55.0 1.00 ug/L 60.0 92 85-115

Cadmium 57.6 1.00 ug/L 60.0 96 85-115

Chromium 589 10.0 ug/L 600 98 85-115

Cobalt 573 10.0 ug/L 600 95 85-115



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QUALITY CONTROL

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

Batch 7E08005 - EPA 3005A

LCS (7E08005-BS1) Continued

Prepared: 05/08/2007 13:31 Analyzed: 05/12/2007 06:10

Copper	569	10.0	ug/L	600		95	85-115			
Iron	1190	50.0	ug/L	1200		99	85-115			
Lead	605	5.00	ug/L	600		101	85-115			
Nickel	573	10.0	ug/L	600		96	85-115			
Selenium	547	10.0	ug/L	600		91	85-115			
Silver	56.8	1.00	ug/L	60.0		95	85-115			
Sodium	25800	1000	ug/L	30000		86	85-115			
Thallium	59.3	1.00	ug/L	60.0		99	85-115			
Vanadium	576	10.0	ug/L	600		96	85-115			
Zinc	552	50.0	ug/L	600		92	85-115			

LCS (7E08005-BS2)

Prepared: 05/08/2007 13:31 Analyzed: 05/15/2007 00:22

Antimony	57.1	5.00	ug/L				85-115			
Arsenic	534	10.0	ug/L	600		89	85-115			
Barium	572	100	ug/L	600		95	85-115			
Beryllium	59.8	1.00	ug/L	60.0		100	85-115			
Cadmium	56.7	1.00	ug/L	60.0		94	85-115			
Chromium	570	10.0	ug/L	600		95	85-115			
Cobalt	573	10.0	ug/L	600		96	85-115			
Copper	571	10.0	ug/L	600		95	85-115			
Iron	1140	50.0	ug/L	1200		95	85-115			
Lead	572	5.00	ug/L	600		95	85-115			
Nickel	582	10.0	ug/L	600		97	85-115			
Selenium	523	10.0	ug/L	600		87	85-115			
Silver	57.8	1.00	ug/L				85-115			
Sodium	30100	1000	ug/L	30000		100	85-115			
Thallium	57.3	1.00	ug/L	60.0		95	85-115			
Vanadium	582	10.0	ug/L	600		97	85-115			
Zinc	557	50.0	ug/L	600		93	85-115			

Matrix Spike (7E08005-MS1)

Source: A702592-10

Prepared: 05/08/2007 13:31 Analyzed: 05/12/2007 06:27

Antimony	56.7	5.00	ug/L	60.0	0.961	93	85-115			
Arsenic	569	10.0	ug/L	600	1.97	95	85-115			
Barium	601	100	ug/L	600	4.52	99	85-115			
Beryllium	55.1	1.00	ug/L	60.0	0.810 U	92	85-115			
Cadmium	57.6	1.00	ug/L	60.0	1.30	94	85-115			
Chromium	581	10.0	ug/L	600	1.72	97	85-115			
Cobalt	570	10.0	ug/L	600	1.48	95	85-115			
Copper	565	10.0	ug/L	600	2.84	94	85-115			
Iron	1170	50.0	ug/L	1200	6.70 U	97	85-115			
Lead	597	5.00	ug/L	600	1.56	99	85-115			
Nickel	571	10.0	ug/L	600	2.17	95	85-115			
Selenium	541	10.0	ug/L	600	2.17	90	85-115			
Silver	57.3	1.00	ug/L	60.0	3.16	90	85-115			
Sodium	26000	1000	ug/L	30000	16.0 U	87	85-115			
Thallium	58.8	1.00	ug/L	60.0	0.290 U	98	85-115			
Vanadium	572	10.0	ug/L	600	1.73	95	85-115			



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QUALITY CONTROL

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

Batch 7E08005 - EPA 3005A

Matrix Spike (7E08005-MS1) Continued Source: A702592-10 Prepared: 05/08/2007 13:31 Analyzed: 05/12/2007 06:27

Zinc	547	50.0	ug/L	600	6.74	90	85-115			
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Matrix Spike (7E08005-MS2) Source: A702592-10 Prepared: 05/08/2007 13:31 Analyzed: 05/15/2007 00:40

Antimony	56.3	5.00	ug/L		1.12		85-115			
Arsenic	531	10.0	ug/L	600	0.980 U	88	85-115			
Barium	573	100	ug/L	600	4.13	95	85-115			
Beryllium	58.1	1.00	ug/L	60.0	0.810 U	97	85-115			
Cadmium	55.7	1.00	ug/L	60.0	0.300 U	93	85-115			
Chromium	562	10.0	ug/L	600	6.50	93	85-115			
Cobalt	565	10.0	ug/L	600	0.260 U	94	85-115			
Copper	559	10.0	ug/L	600	6.76	92	85-115			
Iron	1130	50.0	ug/L	1200	82.0	87	85-115			
Lead	561	5.00	ug/L	600	0.170 U	94	85-115			
Nickel	569	10.0	ug/L	600	9.37	93	85-115			
Selenium	509	10.0	ug/L	600	1.70 U	85	85-115			
Silver	57.2	1.00	ug/L		0.200 U		85-115			
Sodium	29500	1000	ug/L	30000	141	98	85-115			
Thallium	56.7	1.00	ug/L	60.0	0.290 U	94	85-115			
Vanadium	572	10.0	ug/L	600	4.04	95	85-115			
Zinc	546 QM-07	50.0	ug/L	600	44.1	84	85-115			QM-07

Matrix Spike Dup (7E08005-MSD1) Source: A702592-10 Prepared: 05/08/2007 13:31 Analyzed: 05/12/2007 06:35

Antimony	54.8	5.00	ug/L	60.0	0.961	90	85-115	3	20	
Lead	587	5.00	ug/L	600	1.56	98	85-115	2	20	
Sodium	26500	1000	ug/L	30000	16.0 U	88	85-115	2	20	
Thallium	56.9	1.00	ug/L	60.0	0.290 U	95	85-115	3	20	

Matrix Spike Dup (7E08005-MSD2) Source: A702592-10 Prepared: 05/08/2007 13:31 Analyzed: 05/15/2007 00:50

Antimony	55.7	5.00	ug/L		1.12		85-115	1	20	
Arsenic	537	10.0	ug/L	600	0.980 U	90	85-115	1	20	
Barium	548	100	ug/L	600	4.13	91	85-115	5	20	
Beryllium	56.3	1.00	ug/L	60.0	0.810 U	94	85-115	3	20	
Cadmium	54.4	1.00	ug/L	60.0	0.300 U	91	85-115	2	20	
Chromium	575	10.0	ug/L	600	6.50	95	85-115	2	20	
Cobalt	555	10.0	ug/L	600	0.260 U	92	85-115	2	20	
Copper	554	10.0	ug/L	600	6.76	91	85-115	0.8	20	
Iron	1140	50.0	ug/L	1200	82.0	88	85-115	1	20	
Lead	558	5.00	ug/L	600	0.170 U	93	85-115	0.6	20	
Nickel	563	10.0	ug/L	600	9.37	92	85-115	0.9	20	
Selenium	519	10.0	ug/L	600	1.70 U	87	85-115	2	20	
Silver	55.5	1.00	ug/L		0.200 U		85-115	3	20	
Sodium	28900	1000	ug/L	30000	141	96	85-115	2	20	
Thallium	55.4	1.00	ug/L	60.0	0.290 U	92	85-115	2	20	
Vanadium	567	10.0	ug/L	600	4.04	94	85-115	0.9	20	
Zinc	541 QM-07	50.0	ug/L	600	44.1	83	85-115	0.9	20	QM-07

Post Spike (7E08005-PS1) Source: A702592-10 Prepared: 05/11/2007 12:00 Analyzed: 05/12/2007 06:44

Antimony	5.63	0.500	ug/L	4.90	0.094	113	75-125			
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QUALITY CONTROL

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

Batch 7E08005 - EPA 3005A

Post Spike (7E08005-PS1) Continued Source: A702592-10 Prepared: 05/11/2007 12:00 Analyzed: 05/12/2007 06:44

Lead	52.2	0.500	ug/L	49.0	0.152	106	75-125			
Thallium	5.05	0.100	ug/L	4.90	0.011	103	75-125			

Post Spike (7E08005-PS2) Source: A702592-10 Prepared: 05/14/2007 12:00 Analyzed: 05/15/2007 01:00

Antimony	5.59	0.500	ug/L	4.90	0.110	112	75-125			
Arsenic	53.5	1.00	ug/L	49.0	-0.038	109	75-125			
Barium	58.6	10.0	ug/L	49.0	0.405	119	75-125			
Beryllium	5.99	0.100	ug/L	4.90	0.021	122	75-125			
Cadmium	5.71	0.300	ug/L	4.90	0.002	116	75-125			
Chromium	57.8	1.00	ug/L	49.0	0.637	117	75-125			
Cobalt	55.7	1.00	ug/L	49.0	-0.010	114	75-125			
Copper	56.9	1.00	ug/L	49.0	0.663	115	75-125			
Iron	122	5.00	ug/L	98.0	8.04	116	75-125			
Lead	56.9	0.500	ug/L	49.0	-0.045	116	75-125			
Nickel	58.3	1.00	ug/L	49.0	0.919	117	75-125			
Selenium	52.1	1.00	ug/L	49.0	0.055	106	75-125			
Silver	5.68	0.100	ug/L	4.90	0.0005	116	75-125			
Sodium	2900	100	ug/L	2450	13.8	118	75-125			
Thallium	5.66	0.100	ug/L	4.90	-0.009	116	75-125			
Vanadium	57.4	1.00	ug/L	49.0	0.396	116	75-125			
Zinc	58.9	5.00	ug/L	49.0	4.32	111	75-125			

Batch 7E08007 - EPA 7470A

Blank (7E08007-BLK1) Prepared: 05/09/2007 15:09 Analyzed: 05/10/2007 08:15

Mercury	0.11 U	0.20	ug/L							
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LCS (7E08007-BS1) Prepared: 05/09/2007 15:09 Analyzed: 05/10/2007 08:18

Mercury	5.1	0.20	ug/L	5.00		102	90-110			
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Matrix Spike (7E08007-MS1) Source: A702592-10 Prepared: 05/09/2007 15:09 Analyzed: 05/10/2007 08:24

Mercury	5.4	0.20	ug/L	5.00	0.056	107	90-110			
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Matrix Spike Dup (7E08007-MSD1) Source: A702592-10 Prepared: 05/09/2007 15:09 Analyzed: 05/10/2007 08:28

Mercury	5.4	0.20	ug/L	5.00	0.056	106	90-110	0.5	10	
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Batch AA00859 - 7E08007

Serial Dilution (AA00859-SRD1) Source: A702592-10 Prepared: 05/09/2007 00:00 Analyzed: 05/10/2007 08:34

Mercury	0.054	0.20	ug/L		0.056			4	200	
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Batch AA00864 - 7E08005

Serial Dilution (AA00864-SRD1) Prepared: 05/10/2007 00:00 Analyzed: 05/11/2007 21:58

Antimony	3.80	25.0	ug/L							10
Arsenic	4.90	50.0	ug/L							10
Barium	6.50	500	ug/L							10
Beryllium	4.05 U	5.00	ug/L							10
Cadmium	1.50	5.00	ug/L							10
Chromium	6.00 U	50.0	ug/L							10
Cobalt	1.30	50.0	ug/L							10
Copper	3.15	50.0	ug/L							10



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QUALITY CONTROL

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

Batch AA00864 - 7E08005

Serial Dilution (AA00864-SRD1) Continued

Prepared: 05/10/2007 00:00 Analyzed: 05/11/2007 21:58

Iron	33.5 U	250	ug/L						10	
Lead	0.850	25.0	ug/L						10	
Nickel	2.35	50.0	ug/L						10	
Selenium	8.50	50.0	ug/L						10	
Silver	1.00	5.00	ug/L						10	
Sodium	80.0 U	5000	ug/L						10	
Thallium	1.45	5.00	ug/L						10	
Vanadium	1.90	50.0	ug/L						10	
Zinc	9.50	250	ug/L						10	

Serial Dilution (AA00864-SRD2)

Source: A702473-01RE1

Prepared: 05/10/2007 00:00 Analyzed: 05/12/2007 00:26

Antimony	3.80	25.0	ug/L						10	
Arsenic	4.90	50.0	ug/L						10	
Barium	6.50	500	ug/L						10	
Beryllium	4.05 U	5.00	ug/L						10	
Cadmium	1.50	5.00	ug/L						10	
Chromium	6.00 U	50.0	ug/L						10	
Cobalt	1.30	50.0	ug/L						10	
Copper	3.15	50.0	ug/L						10	
Iron	561	250	ug/L						10	
Lead	0.850	25.0	ug/L						10	
Nickel	2.35	50.0	ug/L						10	
Selenium	8.50	50.0	ug/L						10	
Silver	1.00	5.00	ug/L						10	
Sodium	1890	5000	ug/L						10	
Thallium	1.45	5.00	ug/L						10	
Vanadium	1.90	50.0	ug/L						10	
Zinc	9.50	250	ug/L						10	

Serial Dilution (AA00864-SRD3)

Source: A702592-10

Prepared: 05/10/2007 00:00 Analyzed: 05/12/2007 06:52

Antimony	6.04	25.0	ug/L	0.961					10	
Arsenic	8.78	50.0	ug/L	1.97					10	
Barium	8.78	500	ug/L	4.52					10	
Beryllium	4.05 U	5.00	ug/L	4.05 U					10	
Cadmium	3.03	5.00	ug/L	1.30					10	
Chromium	6.00	50.0	ug/L	1.72					10	
Cobalt	4.72	50.0	ug/L	1.48				105	10	
Copper	5.66	50.0	ug/L	2.84					10	
Iron	33.5 U	250	ug/L	33.5 U					10	
Lead	3.74	25.0	ug/L	1.56				83	10	
Nickel	7.08	50.0	ug/L	2.17					10	
Selenium	8.50	50.0	ug/L	2.17					10	
Silver	1.72	5.00	ug/L	3.16				59	10	
Sodium	80.0 U	5000	ug/L	80.0 U					10	
Thallium	1.45	5.00	ug/L	1.45 U					10	
Vanadium	5.82	50.0	ug/L	1.73					10	
Zinc	21.3	250	ug/L	6.74					10	



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QUALITY CONTROL

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

Batch 7E08009 - NA

Blank (7E08009-BLK1)

Prepared: 05/08/2007 12:37 Analyzed: 05/08/2007 13:45

Nitrate as N 0.008 U 0.050 mg/L

Chloride 0.59 I 1.0 mg/L

LCS (7E08009-BS1)

Prepared: 05/08/2007 12:37 Analyzed: 05/08/2007 14:03

Nitrate as N 5.2 0.050 mg/L 5.00 104 90-110

Chloride 240 1.0 mg/L 250 96 90-110

Matrix Spike (7E08009-MS1)

Source: A702467-05

Prepared: 05/08/2007 12:37 Analyzed: 05/08/2007 14:21

Nitrate as N 5.7 0.050 mg/L 5.10 0.11 109 90-110

Chloride 390 1.0 mg/L 255 140 99 90-110

Matrix Spike Dup (7E08009-MSD1)

Source: A702467-05

Prepared: 05/08/2007 12:37 Analyzed: 05/08/2007 14:39

Nitrate as N 5.6 0.050 mg/L 5.10 0.11 107 90-110 2 23

Chloride 390 1.0 mg/L 255 140 97 90-110 2 26

Batch 7E09010 - NO PREP

Blank (7E09010-BLK1)

Prepared: 05/09/2007 17:36 Analyzed: 05/10/2007 17:50

Total Dissolved Solids 10 U 10 mg/L

LCS (7E09010-BS1)

Prepared: 05/09/2007 17:36 Analyzed: 05/10/2007 17:50

Total Dissolved Solids 310 10 mg/L 300 103 86-118

Duplicate (7E09010-DUP1)

Source: A702592-04

Prepared: 05/09/2007 17:36 Analyzed: 05/10/2007 17:50

Total Dissolved Solids 340 10 mg/L 340 0 10

Batch 7E11001 - NO PREP

Blank (7E11001-BLK1)

Prepared: 05/11/2007 08:53 Analyzed: 05/11/2007 09:54

Ammonia as N 0.003 U 0.020 mg/L

LCS (7E11001-BS1)

Prepared: 05/11/2007 08:53 Analyzed: 05/11/2007 09:55

Ammonia as N 1.0 0.020 mg/L 1.00 100 90-110

Matrix Spike (7E11001-MS1)

Source: A701752-05

Prepared: 05/11/2007 08:53 Analyzed: 05/11/2007 10:01

Ammonia as N 0.98 0.020 mg/L 1.00 0.003 U 98 90-110

Matrix Spike Dup (7E11001-MSD1)

Source: A701752-05

Prepared: 05/11/2007 08:53 Analyzed: 05/11/2007 10:02

Ammonia as N 0.93 0.020 mg/L 1.00 0.003 U 93 90-110 5 10

NOTES AND DEFINITIONS

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

LABORATORY CERTIFICATION SUMMARY

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



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Park Dr
Orlando, FL 32824
Tel: 407-826-5314 Fax: (407) 850-0945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6009
(904) 798-1107 Fax: (904) 798-4272

1015 Patton Hwy
Cary, NC 27513
(919) 677-1009 Fax (919) 677-9348

Client Name HDR	Project Number	Requested Analytes						Requested Turnaround Times
Address Grovesville FL	Facility Name/Dept Angelo's Enterprise	<i>B: Lead, Cadmium, Nitrate As: Arsenic, TDS 8300 APPROX I Low 3011 (EDS, ABCP) Ammonia SO₄, T: Fe, Hg, As, Pb, Cu, Se, Cr, Co, Ni, Mn, V, Zn, Sb, Bi, Br, I, Li, Sr, Ba</i>	Note: Rush req. only subject to acceptance by the facility <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited Due <u> </u> / <u> </u> / <u> </u>					
City/State/Zip	Facility Address		Lab Workorder A 702592 <i>sc</i>					
Tel	Fax		Preservation (Bin Codes) (Continue as necessary) A 702148					
Sampling Name (Location/Point)	Sampling Contact John Lucklear		Sample Comments					
Sampling Priority	Facility # (if req. rec'd)							

Serial #	Sample ID/Field Identification	Collection Date	Collection Time	Equip. Used	Matrix (see notes)	Total # of Containers	H	IN	I	IS	IN	Sample Comments
	MW-4B	5/7/02	1717	G	GW	8	X	X	X	X	X	
	MW-7A		1547	G	GW	8	X	X	X	X	X	
	MW-7B		1353	G	GW	8	X	X	X	X	X	
	MW-8B		1310	G	GW	8	X	X	X	X	X	
	MW-9B		1225	G	GW	8	X	X	X	X	X	
	MW-10B		1125	G	GW	8	X	X	X	X	X	
	Pond 1		1500	G	SW	8	X	X	X	X	X	
	Supply Well		1755	G	GW	8	X	X	X	X	X	
	Duplicate		1717	G	GW	8	X	X	X	X	X	

Sample Prepared By <i>J. Fair</i>	Date/Time 4/18/02 10:55	Requested By <i>A. Johnson</i>	Date/Time 4/18/02 10:55	Received By <i>[Signature]</i>	Date/Time 4/18/02 10:55
Containers		Prepared By <i>[Signature]</i>	Date/Time 5/7/02 19:00	Received By <i>[Signature]</i>	Date/Time 5/7 19:00
		Collector's & Temp. of Sample L-301 20°C		Received By <i>J. Fair</i>	Date/Time 5/16/02 11:10
				Condition Used: <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable	

Matrix: GW-Groundwater SO Soil SE-Sediment SW Surface Water WW Wastewater AA - Other (define in comments)
 Preservation: H-HCl; IN-HNO₃; I-H₂SO₄; IN-HClO₄; O-Other (define in comments)
 Note: All samples submitted to ENCO Laboratories are accepted only if the forms and conditions listed on the reverse of this form, unless other written agreements exist.

GROUNDWATER SAMPLING LOG

Surface Water

SITE NAME: Enterprise Road Landfill	SITE LOCATION: Dade City, FL
WELL NO: Pond 1	SAMPLE ID: Pond 1
DATE: 5/7/07	

PURGING DATA

WELL: 2" PVC	TUBING: 3/8" PE	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				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): _____	PURGING INITIATED AT _____	PURGING ENDED AT _____	TOTAL VOLUME PURGED (gallons): _____

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1500	—	—	—	—	8.44	29.44	252	7.53	98.1	Cloudy Tan	None

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; 6" = 1.02; 8" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group	SAMPLER(S) SIGNATURES: <i>[Signature]</i>	SAMPLING INITIATED AT: _____	SAMPLING ENDED AT: 1500
PUMP OR TUBING DEPTH IN WELL (feet): _____	SAMPLE PUMP FLOW RATE (mL per minute): _____	VOC's: <100 mL	MATERIAL CODE: PE
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: _____ µm	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App 1 Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

REMARKS:

Collected surface water samples from standing water @ Southeast corner of Pond 1. Surface water was ~ 6" deep.

- 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 = Bailor; 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) pH: ± 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)

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 HDR		Project Number		Requested Analyses						Requested Turnaround Times		
Address Gainesville FL		Project Name/Desc Angelo's Enterprise		Bi Carb, Chloride, Nitrate Nitrate, TDS SDGO Appendix I LOW 8011 (EDS, DBCP) Ammonia Sb, Ti, Fe, Hg, As, Br, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Hg, Zn, Mn							Note: Rush requests subject to acceptance by the facility <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited Due <u> </u> / <u> </u> / <u> </u>	
City/ST/Zip		PO # / Billing Info										
Tel		Reporting Contact John Locklear										
Fax		Billing Contact										
Sampler(s) Name, Affiliation (Print) Dale Clayton		Facility # (if required)										
Sampler(s) Signature <i>[Signature]</i>				Preservation (See Codes) (Combine as necessary)						Lab Workorder A 702592 <small>JK</small> A 702148 <small>JK</small>		

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
							F	IH	I	IS	IN	
	MW-4B	5/7/07	1717	G	GW	8	X	X	X	X	X	
	MW-7A		1547	G	GW	8	X	X	X	X	X	
	MW-7B		1353	G	GW	8	X	X	X	X	X	
	MW-8B		1310	G	GW	8	X	X	X	X	X	
	MW-9B		1225	G	GW	8	X	X	X	X	X	
	MW-10B		1125	G	GW	8	X	X	X	X	X	
	Pond 1		1500	G	SW	8	X	X	X	X	X	
	Supply Well		1755	G	GW	8	X	X	X	X	X	
	Duplicate		1717	G	GW	8	X	X	X	X	X	
							<-- Total # of Containers					

Sample Kit Prepared By <i>[Signature]</i>	Date/Time 4/18/07 10:55	Relinquished By <i>[Signature]</i>		Date/Time 4/18/07 10:55		Received By <i>[Signature]</i>		Date/Time 4/18/07 10:55	
		Relinquished By <i>[Signature]</i>		Date/Time 5/7/07 1900		Received By <i>[Signature]</i>		Date/Time 5/7 1900	
		Relinquished By <i>[Signature]</i>		Date/Time 5/7/07		Received By <i>[Signature]</i>		Date/Time 5/3/07 11:10	
Cooler #'s & Temps on Receipt L-301 2°C						Condition Upon Receipt <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> 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