2010 Second Semiannual Groundwater Quality Monitoring Report

Enterprise Class III Landfill and Recycling Facility

Permit No. 177982-008-SC, WACS No. 87895

October 2010

HDR

ONE COMPANY | *Many Solutions*™

October 29, 2010

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

RE: Compliance Monitoring Report – Second Semiannual 2010
Enterprise Class III Landfill and Recycling Facility
Permit No. 177982-008-SC and 177982-007-SO
WACS No. 87895
Project Number: 0-148569

Dear Mr. Morris:

This report presents data from the semiannual sampling event at the Enterprise Class III Landfill and Recycling Facility performed on September 7, 8, and 9, 2010.

All groundwater wells which require sampling were sampled during this event by Ideal Tech Services, Inc. for the parameters listed in Specific Condition 4.c. of the permit with the exception of MW-1A, MW-3A, MW-8, MW-9, MW-10, and MW-12A which contained insufficient water for sampling. The supply well and the Temporary Pond were sampled for parameters listed in Specific Condition 4.c. of the permit. The samples were analyzed by Environmental Conservation Laboratories, Inc. Quality Assurance/Quality Control samples were also collected.

Monitoring wells MW-3A, MW-4A, MW-8, MW-9, MW-10, MW-11, and MW-12A 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 of the other Floridan aquifer wells.

Parameters reported at or outside groundwater standards are presented in Attachment 2. All results are comparable to historical levels. HDR recommends continued semiannual monitoring as specified in the current permit.

If you have any questions regarding this report, please contact me at (352) 642-1105.

Sincerely,

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

P:\Environmental - Consolidated\HDR\SOLID WASTE\ANGELOS (FLORIDA)\COMPLIANCE MONITORING\2009\09s2\09S2_letter.doc

Xc: John Arnold, Angelos Recycled Materials
Jeff Rogers, Angelo's Recycled Materials
Andy Alipour, Pasco County

Attachment 1: Groundwater Elevation Data, Well Construction Table, 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: Field Forms and Chains-of-Custody
Attachment 5: ADaPT Files

PROFESSIONAL CERTIFICATION AND APPROVAL

I hereby certify that the document titled: "2010 Second Semiannual Groundwater Quality Monitoring Report" for the Enterprise Class III Landfill and Recycling Facility was prepared under my review.

12/14/10

John D. Locklear, P.G.
Senior Project Manager
Florida P.G. License No. 2467
HDR Engineering, Inc.
4140 NW 37th Place, Suite A
Gainesville, FL 32606
Telephone: (352) 642-1100
Facsimile: (352) 642-1101

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Enterprise Class III Landfill and Recycling Facility

Address 41111 Enterprise Road

City Dade City, Florida Zip 33525 County Polk

Telephone Number ( )

(2) WACS Facility ID 87895

(3) DEP Permit Number 177982-007-SO/T3

(4) Authorized Representative's Name John D. Locklear, P.G., HDR Engineering Title Senior Project Manager

Address 4140 NW 37th Place, Suite A

City Gainesville, Florida Zip 32606 County Alachua

Telephone Number (352)642-1100

Email address (if available)

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

10/14/10
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization HDR Engineering Inc.

Analytical Lab NELAC / HRS Certification # E8079

Lab Name Environmental Conservation Laboratories, Inc.

Address 10775 Central Port Drive, Orlando, Florida 32824

Phone Number (407)826-5314

Email address (if available)

Attachment 1
Groundwater Elevation Data, Well Construction Table, and Groundwater Contour Map

GROUNDWATER ELEVATION DATA
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
SECOND SEMIANNUAL 2010

WELL NAME	TOP OF CASING	CONTOUR MAP		TIME OF SAMPLING	
		DEPTH TO WATER	GROUNDWATER ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION
	(NGVD,FT)	(FT)	(NGVD,FT)	(FT)	(NGVD,FT)
MW-1A	173.77	NM	NM	NS	NS
MW-1B	174.11	104.65	69.46	104.65	69.46
MW-3	85.39	14.06	71.33	NS	NS
MW-3B	84.80	15.06	69.74	15.06	69.74
MW-4	100.59	19.37	81.22	19.37	81.22
MW-4B	100.87	31.08	69.79	31.08	69.79
MW-5A	86.74	12.72	74.02	12.72	74.02
MW-5B	85.70	16.06	69.64	16.06	69.64
MW-6	88.65	17.59	71.06	17.59	71.06
MW-7A	100.72	30.90	69.82	30.90	69.82
MW-7BR	103.27	33.58	69.69	33.58	69.69
MW-8	100.10	35.38	64.72	NS	NS
MW-8B	101.55	38.75	62.80	38.75	62.80
MW-9	108.00	29.46	78.54	NS	NS
MW-9B	109.75	39.84	69.91	39.84	69.91
MW-10	111.62	37.54	74.08	NS	NS
MW-10B	110.00	40.08	69.92	40.08	69.92
MW-11	104.45	34.61	69.84	34.61	69.84
MW-11B	106.11	36.50	69.61	36.50	69.61
MW-12A	121.43	51.19	70.24	NS	NS
MW-12B	121.84	51.95	69.89	51.95	69.89
P-4	84.55	15.29	69.26	NS	NS
P-6	94.16	32.62	61.54	NS	NS
P-8	133.94	65.83	68.11	NS	NS
P-10	132.60	63.01	69.59	NS	NS
P-11	150.76	58.28	92.48	NS	NS

NGVD - National Geodetic Vertical Datum

NS - Not Sampled

NM - Not Measured

NA - Not Available

WELL CONSTRUCTION DETAILS
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY

Groundwater Elevation (NGVD, FT)			
Monitoring Well	Top of Casing	Top of Screen	Bottom of Screen
Surficial aquifer Wells			
MW-1A*	173.77	106.72	126.72
MW-3	85.39	70.92	90.92
MW-4	100.59	74.19	94.19
MW-5A	86.74	56.24	76.24
MW-6	88.65	58.15	78.15
MW-7A	100.72	58.82	78.82
MW-8	100.10	64.20	84.20
MW-9	108.00	78.25	98.25
MW-10	111.62	73.96	93.96
MW-11	104.45	61.95	81.95
MW-12A	121.43	59.23	79.23
Floridan Aquifer Wells			
MW-1B	174.11	57.11	67.11
MW-3B	84.80	41.10	56.10
MW-4B	100.87	42.37	57.37
MW-5B	85.70	38.12	48.12
MW-7BR**	103.27	42.07	57.07
MW-8B	101.55	44.53	59.53
MW-9B	109.75	60.65	75.65
MW-10B	110.00	47.93	62.93
MW-11B***	106.11	23.61	38.61
MW-12B	121.84	31.64	46.64

LEGEND

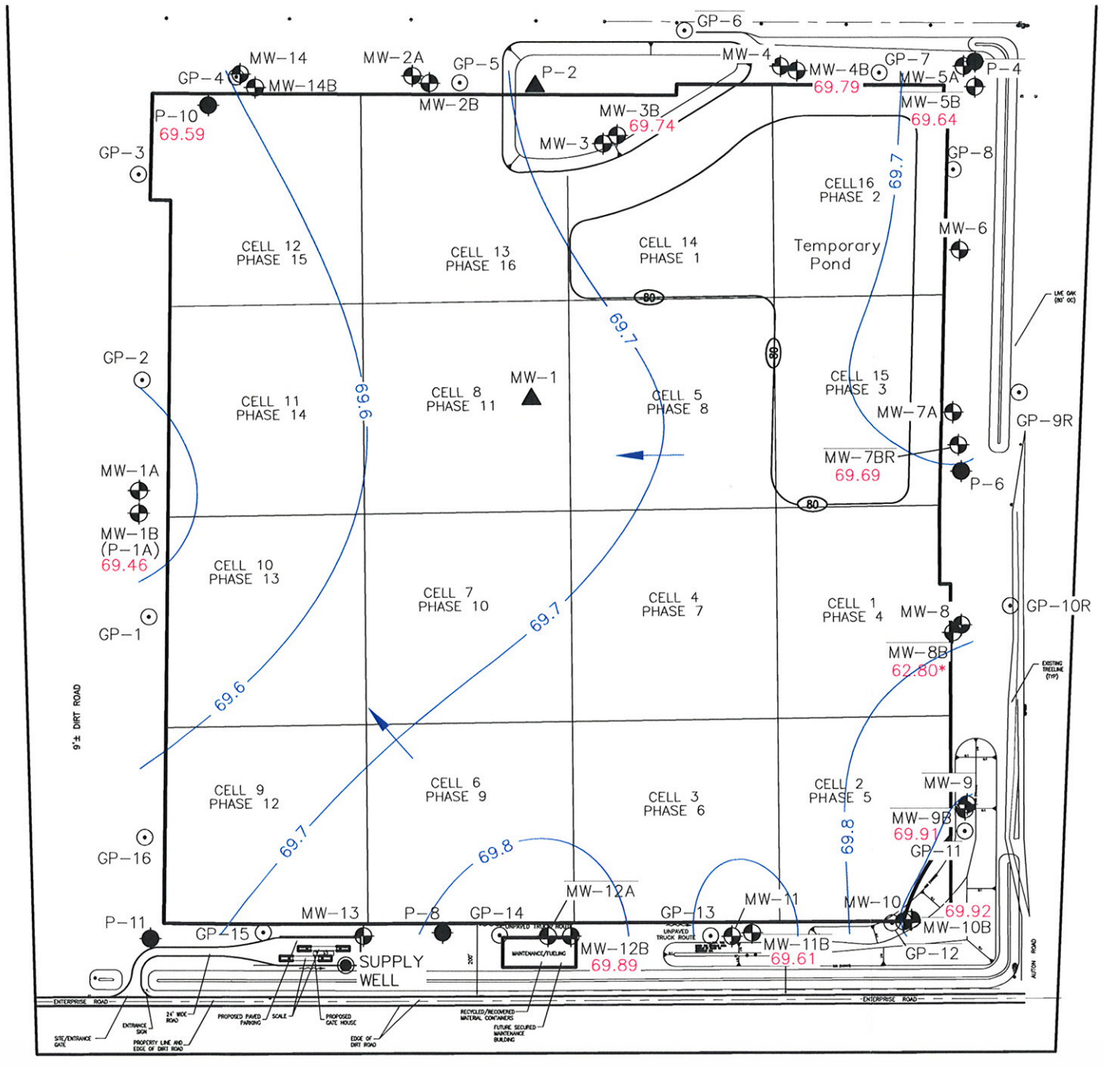
MW−4B	MONITORING WELL LOCATION
69.79	GROUNDWATER ELEVATION
GP−1	GAS PROBE LOCATION
P−9	PIEZOMETER WELL LOCATION
	SUPPLY WELL
MW−1	ABANDONED WELL
69.7	GROUNDWATER CONTOUR LINE (0.1' INTERVALS)
	GROUNDWATER FLOW DIRECTION

* NOT USED IN CONTOURING

N

SCALE IN FEET

200 100 0 200 400



HDR ENGINEERING, INC.
200 W. FORSYTH ST.
SUITE 800
JACKSONVILLE, FL 32202
(904) 598−8900

ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	J. LOCKLEAR, P.G.
DESIGNED	
DESIGNED	
CHECKED BY	
DRAWN BY	M. AUSTIN
DRAWN BY	C. BREWER
PROJECT NUMBER	69055

ENTERPRISE ROAD
RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA

GROUNDWATER CONTOUR MAP
FLORIDAN AQUIFER
SEPTEMBER 7, 2010

0 1" 2"
AT FULL SIZE BAR LENGTH EQUALS TWO INCHES. ADJUST SCALE ACCORDINGLY.

FILENAME	FIG−01.dwg
SCALE	1"=200'

SHEET
FIG-01

Attachment 2
Analysis Results Compared to Groundwater Standards

ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
SECOND SEMIANNUAL 2010

PARAMETER		pH (FIELD)	IRON
STANDARD		6.5-8.5 S.U.**	300 µg/L**
Background			
MW-1B	9/7/2010	-	-
Detection			
MW-3B	9/9/2010	-	-
MW-4	9/9/2010	6.05	367
MW-4B	9/8/2010	-	-
MW-5A	9/8/2010	5.13	-
MW-5B	9/8/2010	-	-
MW-6	9/8/2010	4.69	-
MW-7A	9/8/2010	4.73	1280
MW-7BR	9/8/2010	-	-
MW-8B	9/8/2010	-	4680
MW-9B	9/7/2010	-	-
MW-10B	9/7/2010	6.46	-
MW-11	9/7/2010	4.87	3790
MW-11B	9/7/2010	5.85	-
MW-12B	9/7/2010	6.18	-
Other, Water Supply			
Supply Well	9/7/2010	-	-
QAQC			
EQUBLK1	9/7/2010	NM	-
EQUBLK2	9/9/2010	NM	-
TRIP1	9/7/2010	NM	NM
TRIP2	9/8/2010	NM	NM
TRIP3	9/9/2010	NM	NM
Surface Water			
TEMP POND	9/9/2010	-	512

LEGEND

* =Primary Drinking Water Standard
** =Secondary Drinking Water Standard
*** =Chapter 62-777-Groundwater Cleanup Target Level (GCTL)
@ =Analysis Result is at Groundwater Standard
\- =Analysis Result is not at or outside Groundwater Standard
NS =Not Sampled
NM =Not Measured

Note:

This table displays analysis results which were reported at or outside Groundwater Standards.
Analysis results notated with "@" indicate that the analysis result was reported at the Groundwater Standard.
Analysis results which were reported above the laboratory detection limit (reporting limit), but not at or above the Groundwater Standard are not displayed in this table.

Attachment 3
Groundwater Parameters At or Above the Laboratory Detection Limit

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
SECOND SEMIANNUAL 2010

PARAMETER		CONDUC-TIVITY (FIELD)	DISSOLVED OXYGEN (FIELD)	GROUND-WATER ELEVATION	pH (FIELD)	REDOX POTENTIAL	TEMPER-ATURE (FIELD)	TURBIDITY (FIELD)	AMMONIA NITROGEN	CHLORIDE	NITRATE NITROGEN	TOTAL DISSOLVED SOLIDS	ANTIMONY	ARSENIC	BARIUM
STANDARD UNITS		(1) µmhos/cm	(1) ppm	(1) NGVD FT	6.5-8.5 S.U.** S.U.	(1) mV	(1) deg C	(1) NTU	2.8 mg/L*** mg/L	250 mg/L** mg/L	10 mg/L* mg/L	500 mg/L** mg/L	6 µg/L* µg/L	10 µg/L* µg/L	2000 µg/L* µg/L
Background															
MW-1B	9/7/2010	286	5.17	69.46	7.39	72.4	24.67	4.40	<0.010	14	4.2	180	<0.700	<4.00	<11.0
Detection															
MW-3B	9/9/2010	314	1.86	69.74	6.91	13.1	24.50	1.10	<0.010	5.3	0.44 I	200	<0.700	<4.00	<11.0
MW-4	9/9/2010	622	3.30	81.22	6.05	52.0	27.14	14.90	<0.010	9.5	0.77 I	440	0.720 I	<4.00	18.8 I
MW-4B	9/8/2010	225	2.58	69.79	6.95	74.1	24.49	0.40	<0.010	5.7	0.36 I	150	<0.700	<4.00	<11.0
MW-5A	9/8/2010	70	2.19	74.02	5.13	162.8	25.38	6.00	<0.010	6.4	0.22 I	48	<0.700	<4.00	<11.0
MW-5B	9/8/2010	236	3.59	69.64	7.22	36.8	23.65	0.90	<0.010	4.7 I	0.82 I	140	<0.700	<4.00	<11.0
MW-6	9/8/2010	67	5.98	71.06	4.69	178.3	25.44	17.00	<0.010	7.0	0.76 I	56	<0.700	<4.00	<11.0
MW-7A	9/8/2010	138	0.20	69.82	4.73	147.6	27.17	3.90	0.032	17	0.11 I	88	<0.700	<4.00	<11.0
MW-7BR	9/8/2010	220	1.17	69.69	8.39	14.0	24.99	14.50	<0.010	5.4	0.69 I	130	<0.700	<4.00	<11.0
MW-8B	9/8/2010	542	0.13	62.80	6.65	-96.3	26.06	1.00	1.6	6.6	<0.10	340	<0.700	<4.00	133
MW-9B	9/7/2010	460	3.40	69.91	6.59	69.0	26.01	2.30	<0.010	7.5	1.6	320	<0.700	<4.00	<11.0
MW-10B	9/7/2010	256	0.43	69.92	6.46	-75.4	25.04	0.30	<0.010	7.4	1.7	150	<0.700	<4.00	<11.0
MW-11	9/7/2010	71	0.44	69.84	4.87	135.1	27.69	15.40	0.060	6.9	0.25 I	42	<0.700	<4.00	<11.0
MW-11B	9/7/2010	180	3.24	69.61	5.85	109.6	24.20	4.20	<0.010	8.1	1.3	120	<0.700	<4.00	<11.0
MW-12B	9/7/2010	200	5.37	69.89	6.18	124.7	24.43	0.40	<0.010	10	4.1	140	<0.700	<4.00	<11.0
Other, Water Supply															
SUPPLY WELL	9/7/2010	281	2.69	-	7.09	72.0	25.16	0.20	<0.010	8.7	2.2	200	<0.700	<4.00	<11.0
Surface Water															
TEMP POND	9/9/2010	295	1.10	-	7.05	-	26.94	2.60	<0.010	12	<0.10	200	0.0904 I	1.43	4.68 I

LEGEND

* =Primary Drinking Water Standard
** =Secondary Drinking Water Standard
*** =Chapter 62-777-Groundwater Cleanup Target Level (GCTL)
(1) =No Standard
\- =Not Analyzed

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time

Tuesday, October 12, 2010

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
SECOND SEMIANNUAL 2010

PARAMETER		BERYLLIUM	CHROMIUM	COBALT	IRON	MERCURY	NICKEL	SODIUM	VANADIUM	ZINC	ACETONE	CHLORO-FORM	TRICHLORO-FLUORO-METHANE
STANDARD UNITS		4 µg/L* µg/L	100 µg/L* µg/L	140µg/L*** µg/L	300 µg/L** µg/L	2 µg/L* µg/L	100 µg/L* µg/L	160 mg/L* mg/L	49 µg/L*** µg/L	5000 µg/L** µg/L	6300 µg/L*** µg/L	70 µg/L*** µg/L	2100 µg/L*** µg/L
Background													
MW-1B	9/7/2010	<0.740	<4.50	<1.20	<38.0	<0.0240	<2.30	6.30	2.31 I	<16.0	<1.0	0.37 I	<0.57
Detection													
MW-3B	9/9/2010	0.854 I	<4.50	<1.20	<38.0	<0.0240	<2.30	4.34	3.23 I	<16.0	<1.0	<0.37	<0.57
MW-4	9/9/2010	0.751 I	<4.50	<1.20	367	<0.0240	3.10 I	20.7	3.25 I	374	<1.0	<0.37	<0.57
MW-4B	9/8/2010	<0.740	<4.50	<1.20	<38.0	<0.0240	<2.30	4.83	3.05 I	<16.0	<1.0	<0.37	<0.57
MW-5A	9/8/2010	<0.740	<4.50	<1.20	178	<0.0240	<2.30	3.91	<0.960	<16.0	<1.0	<0.37	<0.57
MW-5B	9/8/2010	<0.740	<4.50	<1.20	<38.0	<0.0240	<2.30	3.58	7.13 I	<16.0	<1.0	<0.37	<0.57
MW-6	9/8/2010	<0.740	<4.50	<1.20	292	<0.0240	<2.30	4.94	1.43 I	<16.0	<1.0	<0.37	<0.57
MW-7A	9/8/2010	<0.740	5.30 I	<1.20	1280	0.150 I	6.32 I	5.60	<0.960	<16.0	<1.0	<0.37	<0.57
MW-7BR	9/8/2010	<0.740	6.16 I	<1.20	53.2	<0.0240	<2.30	4.98	15.5	<16.0	<1.0	<0.37	<0.57
MW-8B	9/8/2010	<0.740	<4.50	<1.20	4680	<0.0240	4.99 I	5.34	<0.960	<16.0	<1.0	<0.37	<0.57
MW-9B	9/7/2010	<0.740	<4.50	<1.20	48.3 I	<0.0240	3.06 I	5.40	3.72 I	<16.0	<1.0	<0.37	1.6
MW-10B	9/7/2010	<0.740	<4.50	<1.20	74.1	<0.0240	<2.30	4.83	2.63 I	17.6 I	<1.0	<0.37	0.72 I
MW-11	9/7/2010	<0.740	<4.50	<1.20	3790	<0.0240	<2.30	5.49	<0.960	<16.0	31	<0.37	5.1
MW-11B	9/7/2010	<0.740	<4.50	<1.20	<38.0	0.212	<2.30	5.22	2.68 I	26.9 I	2.8 I	<0.37	2.0
MW-12B	9/7/2010	<0.740	<4.50	<1.20	<38.0	<0.0240	<2.30	6.31	1.86 I	<16.0	<1.0	<0.37	1.1
Other, Water Supply													
SUPPLY WELL	9/7/2010	<0.740	<4.50	<1.20	<38.0	<0.0240	<2.30	4.92	3.54 I	111	<1.0	<0.37	<0.57
Surface Water													
TEMP POND	9/9/2010	0.100	<0.450	0.161 I	512	<0.0240	0.984 I	9.03	0.170 I	<1.60	<1.0	<0.37	<0.57

LEGEND

*	=Primary Drinking Water Standard	I	= Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
**	=Secondary Drinking Water Standard	J	= Estimated value
***	=Chapter 62-777-Groundwater Cleanup Target Level (GCTL)	V	= Analyte found in associated method blank
(1)	=No Standard	Q	= Estimated value; analyte analyzed after acceptable holding time
-	=Not Analyzed		

Attachment 4
Field Forms and Chains-of-Custody

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-1B**	WACS_WELL: **19568**	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 104.65	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

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

= (118.50 feet – 104.65 feet) X .16 gallons/foot = 2.22 gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	PURGING INITIATED AT: 1017	PURGING ENDED AT: 1030	TOTAL VOLUME PURGED (gallons): 6.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1024	3.50	3.50	.50	104.67	7.57	24.72	291	5.18	5.10	clear	none
1027	1.50	5.00	.50	104.67	7.41	24.68	288	5.18	5.10	clear	none
1030	1.50	6.50	.50	104.67	7.39	24.67	286	5.17	4.40	clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1036
PUMP OR TUBING DEPTH IN WELL (feet): 105.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-1B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-1B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-1B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-1B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ ~~1350~~ 1100

REMARKS: Slowed pump to sample

ORP = +72.4

CL 1/6/10

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-12B**	WACS_WELL: **19583**	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 51.95	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (90.20 feet – 51.95 feet) X .16 gallons/foot = 6.12 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53.00	PURGING INITIATED AT: 1053	PURGING ENDED AT: 1124	TOTAL VOLUME PURGED (gallons): 7.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1118	6.25	6.25	.25	51.96	6.16	24.45	196	5.32	.60	Clear	none
1121	.75	7.00	.25	51.96	6.18	24.40	199	5.34	.50	Clear	none
1124	.75	7.75	.25	51.96	6.18	24.43	200	5.37	.40	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1124	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 53.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-12B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-12B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 946
MW-12B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 946
MW-12B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 946
MW-12B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP = 124.7

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-11B**	WACS_WELL: 22593	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 36.50	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (84.50 feet – 36.50 feet) X .16 gallons/foot = 7.68 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.50	PURGING INITIATED AT: 1215	PURGING ENDED AT: 1237	TOTAL VOLUME PURGED (gallons): 11.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1231	8.00	8.00	.50	36.57	5.80	24.18	179	3.07	9.20	Clear	none
1234	1.50	9.50	.50	36.57	5.82	24.18	183	3.11	5.20	Clear	none
1237	1.50	11.00	.50	36.57	5.85	24.20	180	3.24	4.20	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1237	SAMPLING ENDED AT: 1243
PUMP OR TUBING DEPTH IN WELL (feet): 37.50	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-11B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-11B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-11B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-11B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-11B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 1135 DUP

REMARKS: slowed pump to sample

ORP: +109.6

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-11**	WACS_WELL: **19581**	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 34.61	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (42.60 feet – 34.61 feet) X .16 gallons/foot = 1.28 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36.00	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1308	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1302	2.75	2.75	.125	35.07	4.83	27.66	70	.31	18.60	Clear	none
1305	.375	3.125	.125	35.07	4.85	27.68	70	.38	16.90	Clear	none
1308	.375	3.50	.125	35.07	4.87	27.69	71	.44	15.40	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1308	SAMPLING ENDED AT: 1317
PUMP OR TUBING DEPTH IN WELL (feet): 36.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-11	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-11	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 473
MW-11	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 473
MW-11	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 473
MW-11	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP: +135.1

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-10B**	WACS_WELL: 21325	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 40.08	PURGE PUMP TYPE OR BAILER: Stainless ESP

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

= (61.90 feet – 40.08 feet) X .16 gallons/foot = 3.49 gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41.50	PURGING INITIATED AT: 1332	PURGING ENDED AT: 1344	TOTAL VOLUME PURGED (gallons): 7.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1338	3.60	3.60	.60	40.20	6.30	24.99	249	.34	.30	Clear	none
1341	1.80	5.40	.60	40.20	6.43	24.99	255	.40	.30	clear	none
1344	1.80	7.20	.60	40.20	6.46	25.04	256	.43	.30	clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1344	SAMPLING ENDED AT: 1350
PUMP OR TUBING DEPTH IN WELL (feet): 41.50	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-10B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-10B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-10B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-10B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 1135
									9/7/10

REMARKS: Slowed pump to sample

ORP = 75.4

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-9B**	WACS_WELL: 21324	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 39.84	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

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

= (48.90 feet – 39.84 feet) X .16 gallons/foot = 1.45 gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41.00	PURGING INITIATED AT: 1404	PURGING ENDED AT: 1418	TOTAL VOLUME PURGED (gallons): 2.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1412	1.60	1.60	.20	39.96	6.69	25.84	454	3.46	2.80	Clear	none
1415	.60	2.20	.20	39.96	6.60	25.91	458	3.41	3.00	Clear	none
1418	.60	2.80	.20	39.96	6.59	26.01	460	3.40	2.30	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1418	SAMPLING ENDED AT: 1425
PUMP OR TUBING DEPTH IN WELL (feet): 41.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-9B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 757
MW-9B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 757
MW-9B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 757
MW-9B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ ~~757~~ 100

REMARKS:

ORP = +69.0

9/7/10

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **SUPPLY WELL (SW)**	WACS_WELL: 21326	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): NM	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (unknown feet – unknown feet) X .16 gallons/foot = — gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 1559	PURGING ENDED AT: 1610	TOTAL VOLUME PURGED (gallons): 11.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1604	5.00	5.00	1.00	—	7.11	25.22	278	2.79	.40	Clear	none
1607	3.00	8.00	1.00	—	7.05	25.20	281	2.76	.20	Clear	none
1610	3.00	11.00	1.00	—	7.09	25.16	281	2.69	.20	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1610	SAMPLING ENDED AT: 1616
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
SW	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
SW	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
SW	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
SW	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
SW	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Sampled as a well with in place plumbing
slowed pump to sample
ORP = +72

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-8B**	WACS_WELL: 21323	DATE: 09 / 08 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 38.75	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.00 feet – 38.75 feet) X .16 gallons/foot = 2.92 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.00	PURGING INITIATED AT: 0845	PURGING ENDED AT: 0856	TOTAL VOLUME PURGED (gallons): 11.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0850	5.00	5.00	1.00	38.85	6.76	26.05	542	.14	1.80	Clear	None
0853	3.00	8.00	1.00	38.85	6.73	26.03	542	.14	1.10	↓	↓
0856	3.00	11.00	1.00	38.85	6.65	26.06	542	.13	1.00	↓	↓

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0856	SAMPLING ENDED AT: 0901
PUMP OR TUBING DEPTH IN WELL (feet): 40.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-8B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-8B	1	PE	250 mL	HNO_3	None	< 2	Metals	Stainless ESP	≈ 1135
MW-8B	1	PE	250 mL	H_2SO_4	None	< 2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-8B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-8B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed Pump To Sample

ORP = -96.3

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-7BR**	WACS_WELL: 22592	DATE: 09 / 08 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 33.58	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.00 feet – 33.58 feet) X .16 gallons/foot = 4.39 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34.50	PURGING INITIATED AT: 0922	PURGING ENDED AT: 0957	TOTAL VOLUME PURGED (gallons): 5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0951	4.40	4.40	.20	33.60	8.31	24.98	223	1.18	16.80	clear	none
0954	.60	5.00	.20	33.60	8.36	24.99	222	1.19	16.00	clear	none
0957	.60	5.60	.20	33.60	8.39	24.99	220	1.17	14.50	clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0957	SAMPLING ENDED AT: 1003
PUMP OR TUBING DEPTH IN WELL (feet): 34.50	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7BR	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-7BR	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 757
MW-7BR	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 757
MW-7BR	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 757
MW-7BR	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: ITS-55#3 NTU Before Methods Sample = 9.50 UTC

ORP = +14

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

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

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-7A**	WACS_WELL: **19576**	DATE: 09 / 08 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 30.90	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.80 feet – 30.90 feet) X .16 gallons/foot = 2.38 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.00	PURGING INITIATED AT: 1012	PURGING ENDED AT: 1058	TOTAL VOLUME PURGED (gallons): 2.76

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1052	2.40	2.40	.06	35.77	4.82	27.07	136	.20	4.60	Clear	none
1055	.18	2.58	.06	35.85	4.78	27.03	137	.20	4.00	Clear	none
1058	.18	2.76	.06	35.90	4.73	27.17	138	.20	3.90	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1058	SAMPLING ENDED AT: 1105
PUMP OR TUBING DEPTH IN WELL (feet): 37.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-7A	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 227
MW-7A	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 227
MW-7A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 227
MW-7A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP = +147.6

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-6**	WACS_WELL: **19575**	DATE: 09 / 08 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 17.59	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.05 feet – 17.59 feet) X .16 gallons/foot = 1.99 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	PURGING INITIATED AT: 1115	PURGING ENDED AT: 1146	TOTAL VOLUME PURGED (gallons): 2.45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1140	2.03	2.03	.07	23.72	4.66	25.31	67	6.18	16.00	Clear	None
1143	.21	2.24	.07	23.92	4.63	25.43	67	6.00	16.60	Clear	none
1146	.21	2.45	.07	24.02	4.69	25.44	67	5.98	17.00	clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1146	SAMPLING ENDED AT: 1158
PUMP OR TUBING DEPTH IN WELL (feet): 25.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-6	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-6	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 265
MW-6	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 265
MW-6	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 265
MW-6	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP = +178.3

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: MW-5B	WACS_WELL: 19574	DATE: 09 / 03 / 10

KW 9/8/10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~.375~~ .170	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 16.06	PURGE PUMP TYPE PP OR BAILER: ~~Stainless ESP~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) KW 9/8/10

= (47.00 feet – 16.06 feet) X .16 gallons/foot = 4.95 gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.00	PURGING INITIATED AT: 1203	PURGING ENDED AT: 1243	TOTAL VOLUME PURGED (gallons): 6.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1237	5.10	5.10	.15	16.21	7.06	23.69	236	3.78	.70	clear	none
1240	.45	5.55	.15	16.21	7.14	23.63	236	3.69	.90	clear	none
1243	.45	6.00	.15	16.21	7.22	23.65	236	3.59	.90	clear	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; 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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1243	SAMPLING ENDED AT: 1248
PUMP OR TUBING DEPTH IN WELL (feet): 17.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-5B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP ~~Stainless ESP~~	≈ 100
MW-5B	1	PE	250 mL	HNO_3	None	<2	Metals	PP ~~Stainless ESP~~	≈ 567
MW-5B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP ~~Stainless ESP~~	≈ 567
MW-5B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP ~~Stainless ESP~~	≈ 567
MW-5B	2	CG	40 mL	4° C	None	Not Req'd	8011	PP ~~Stainless ESP~~	≈ 100

REMARKS:

KW 9/10/10

ORP: + 36.8

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-5A**	WACS_WELL: 19573	DATE: 09 / 08 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 12.72	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.10 feet – 12.72 feet) X .16 gallons/foot = 2.78 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16.50	PURGING INITIATED AT: 1220	PURGING ENDED AT: 1258	TOTAL VOLUME PURGED (gallons): 3.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1252	3.20	3.20	.10	15.10	5.26	25.33	70	2.31	6.50	Clear	none
1255	.30	3.50	.10	15.10	5.24	25.40	70	2.27	6.30	Clear	none
1258	.30	3.80	.10	15.10	5.13	25.38	70	2.19	6.00	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1258	SAMPLING ENDED AT: 1300 (1330) 9/8/10
PUMP OR TUBING DEPTH IN WELL (feet): 16.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-5A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-5A	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 378
MW-5A	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 378
MW-5A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 378
MW-5A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: purge begins Very Cloudy and >1000 NTU

ORP = + 162.8

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

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

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: MW-4B	WACS_WELL: 21965	DATE: 09 / 08 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 31.08	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (58.50 feet – 31.08 feet) X .16 gallons/foot = 4.39 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 1314	PURGING ENDED AT: 1342	TOTAL VOLUME PURGED (gallons): 5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1336	4.40	4.40	.20	31.10	6.96	24.49	225	2.60	.50	clear	none
1339	.60	5.00	.20	31.10	6.97	24.49	225	2.58	.50	clear	none
1342	.60	5.60	.20	31.10	6.95	24.49	225	2.58	.40	clear	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; 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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1342	SAMPLING ENDED AT: 1348
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-4B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 757
MW-4B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 757
MW-4B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 757
MW-4B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP= +74.1

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-4**	WACS_WELL: 19572	DATE: 09 / 09 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 19.37	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (26.56 feet – 19.37 feet) X .16 gallons/foot = 1.15 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.00	PURGING INITIATED AT: 0859	PURGING ENDED AT: 0920	TOTAL VOLUME PURGED (gallons): ~~1.15~~ 1.68 (initialed 9/9/10)

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or [μS/cm]	DISSOLVED OXYGEN (circle units) [mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0914	1.20	1.20	.08	Below	6.15	26.17	595	3.35	19.00	Clear	none
0917	.24	1.44	.08	Pump	6.08	26.33	605	3.38	15.70	↓	↓
0920	.24	1.68	.08	↓	6.05	27.14	622	3.30	14.90	↓	↓

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
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0925
PUMP OR TUBING DEPTH IN WELL (feet): 26.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-4	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-4	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 303
MW-4	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 303
MW-4	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 303
MW-4	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Purge water was not muddy as previous attempt to sample on prior day. Water level starts falling much faster after removing 1 gallon & swell continues to purge ~~water level lineare~~ NTU increases. was able to obtain a valid sample. ORP = +52

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-3B**	WACS_WELL: 21964	DATE: 09 / 9 / 10

PURGING DATA

9/9/10

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~.375~~ .170	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 15.06	PURGE PUMP TYPE OR BAILER: ~~Stainless ESP~~ PP 9/9/10

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (43.75 feet – 15.06 feet) X .16 gallons/foot = 4.59 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16.00	PURGING INITIATED AT: 1034	PURGING ENDED AT: 1103	TOTAL VOLUME PURGED (gallons): 5.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1057	4.60	4.60	.20	15.06	7.04	24.33	314	1.84	.60	Clear	none
1100	.60	5.20	.20	15.06	7.04	24.41	315	1.83	.70	clear	none
1103	.60	5.80	.20	15.06	6.91	24.50	314	1.86	1.10	Clear	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; 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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1103	SAMPLING ENDED AT: 1109
PUMP OR TUBING DEPTH IN WELL (feet): 16.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP ~~Stainless ESP~~	≈ 100
MW-3B	1	PE	250 mL	HNO_3	None	<2	Metals	PP ~~Stainless ESP~~	≈ 757
MW-3B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP ~~Stainless ESP~~	≈ 757
MW-3B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP ~~Stainless ESP~~	≈ 757
MW-3B	2	CG	40 mL	4° C	None	Not Req'd	8011	PP ~~Stainless ESP~~	≈ 100
								RFPP 9/9/10	

REMARKS:

ORP = +13.1

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

IDEAL TECH SERVICES, INC.
SURFACE WATER SAMPLING LOG Rev. 1.0

SITE NAME: **Enterprise Class III Landfill, TEMPORARY POND**	SITE LOCATION: **Pasco County**	DATE: 09/09 /10
GPS COORDINATES: /	ARRIVED @ LOCATION: 1005	
ALTERNATE GPS COORDINATES: /	REASON FOR COORDINATE DEVIATION: /	
SECCHI DISC VANISHING POINT: /	SECCHI DISC REAPPEARANCE: /	MEAN SECCHI VALUE: /
TOTAL DEPTH: /		

AMBIENT WEATHER CONDITIONS:

Temp. (°F): 90° - 95°F Wind Speed/Direction (mph): None

Surface Conditions: Flat. Flow: None

FIELD MEASUREMENTS

PARAMETERS	6" - 1' BELOW SURFACE TIME: 1013	6" - 1' BELOW SURFACE TIME: 1016	6" - 1' BELOW SURFACE TIME: 1019
TEMP. (°C)	27.04	27.00	26.94
COND. (µS/cm)	296	296	295
DISSOLVED OXYGEN (mg/L)	1.13	1.12	1.10
pH (standard units)	7.13	7.08	7.05
TURBIDITY (NTUs)	2.80	2.80	2.60

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	TIME SAMPLE COLLECTED:
Chris Monaco Ideal Tech Services, Inc.		1028

FIELD-FILTERED: Y [N] FILTER SIZE: _____ µm

FILTRATION EQUIPMENT TYPE: None

DUPLICATE: Y [N]

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Field Filtered Y / N
# OF CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP	N
1	PE	250 mL	HNO_3	None	< 2	Metals	PP	N
1	PE	250 mL	H_2SO_4	None	< 2	Ammonia (350.1)	PP	N
1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	N
2	CG	40 mL	4° C	None	Not Req'd	8011	RFPP	N

REMARKS: feet = engineering scale wind direction and speed estimated only, not measured flow estimated, not measured

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-1A**	WACS_WELL: **19567**	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): Dry	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

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

= (67.05 feet – Dry feet) X .16 gallons/foot = gallons

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

= 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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ *100*
MW-1A	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-1A	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-1A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-1A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈

REMARKS: No water at well. DRY WELL

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-3**	WACS_WELL: 19571	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 14.06	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.45 feet – 14.06 feet) X .16 gallons/foot = .0624 gallons

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N (replaced)] 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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-3	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-3	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-3	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-3	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-3	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈

REMARKS: Not enough water in well to sustain flow
Water needed To fill tubing = .047 gal
.25 gal needed To fill Containers
DRY WELL

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: MW-8	WACS_WELL: 19578	DATE: 09/07/10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 35.38	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.90 feet – 35.38 feet) X .16 gallons/foot = ✓ .08 gallons

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N (replaced)] 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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-8	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-8	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-8	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-8	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-8	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈

REMARKS: Not enough water in well to sustain flow

DRY WELL

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-9**	WACS_WELL: **19579**	DATE: 09/07/10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 29.46	PURGE PUMP TYPE OR BAILER: Stainless ESP

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

= (29.70 feet – 29.46 feet) X .16 gallons/foot = .03 gallons

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

= 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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N (replaced)] 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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-9	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-9	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-9	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-9	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈

REMARKS: Not enough water in well to sustain flow

DRY WELL

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-10**	WACS_WELL: **19580**	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 37.54	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.65 feet – 37.54 feet) X .16 gallons/foot = .02 gallons

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-10	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-10	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-10	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-10	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈

REMARKS: Not enough water in well to sustain flow

DRY WELL

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-12A**	WACS_WELL: 19582	DATE: 09 / 07 / 10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 52.19	PURGE PUMP TYPE OR BAILER: Stainless ESP

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

= (61.50 feet – 52.19 feet) X .16 gallons/foot = 1.49 gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.00	PURGING INITIATED AT: 1134	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. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 61.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	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	SAMPLE PUMP FLOW RATE (mL per minute)
MW-12A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-12A	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-12A	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-12A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-12A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈

REMARKS: purge water begins cloudy tan >1,000 NTU, 71000 NTU @ 1.50 gallons at two gallons at a flow rate of .05 or less >1,000 NTU and well purged dry. unable to collect a valid sample. water level fell below top off pump and could not be measured.

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

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

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

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

CALIBRATION LOG

ITS Work Order Number: ARM-EL-03-090710

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 09/07/10 @ 0630

END CALIBRATION DATE @ TIME: 09/07/10 @ 1800

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 3.12

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING START	METER READING END	VERIFY @ START	LOT NUMBER	EXP DATE
4.01	4.01	3.99	✓	2004187	May-12
7.00	7.00	6.99	7.00	2004590	Apr-12
10.00	9.99	9.98	✓	2912603	Jun-11

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	4.27	4.32		NA	06/21/10
HIGH	31.42		31.49		06/21/10

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
0.00	.24	.25	2005203	May-11
fresh air @				
24.23 °C	8.38			
25.79 °C		8.14		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
8,974	8,969	8,969	9AG154	Jul-10
2,764	2,764	2769	2005407	May-11
447	NM	NM	NA	NA
84	84	85	2005073	May-11

8,974 standard prepared by USA Blue Book. 2,764 and 84 prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
200 @ 25°C	~~NM~~ 197	~~NM~~ 202	9AH048	Feb-10

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

Notes:

NA - not applicable

NM - not measured

Form Rev 3.12 on 06/21/10: Updated Lot and EXP Date of pH, Cond and Zero D.O. standards. Record new TEMP. verification

HF SCIENTIFIC DTR-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
1000	1000	1000	See Below	Jan-11
100	100	100	See Below	Jan-11
10	10	10	See Below	Jan-11
0.02	.02	.02	See Below	Jan-11

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 29071, Lot# 90794

Remarks:

Weather Conditions: Hot 90 95° F

Equipment Blank with D.I. water

Zephyr Hills brand Lot #070110182WF233195088

Exp Date 07/01/12

Equipment Blank Data - Collected @ 1626 ITS SSP#3

pH = ✓ Cond = ✓

Temp = ✓ D.O. = ✓

Turbidity = ✓

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Chris Monaco or Karen LeBeau

CALIBRATION LOG

ITS Work Order Number: ARM-EL-03-090810

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539 Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 09/08/10 @ 0640 END CALIBRATION DATE @ TIME: 09/08/10 @ 1815

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 3.12

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING START	METER READING END	VERIFY @ START	LOT NUMBER	EXP DATE
4.01	4.01	4.00	✓	2004187	May-12
7.00	7.00	6.99	7.00	2004590	Apr-12
10.00	9.99	9.99	✓	2912603	Jun-11

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)	YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW 4.27	4.32		NA	06/21/10
HIGH 31.42		31.49		06/21/10

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
0.00	.24	.25	2005203	May-11
fresh air @				
23.57 °C	8.48			
26.01 °C		8.11		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
8,974	8,970	4/m	9AG154	Jul-10
2,764	2,765	2,770	2005407	May-11
447	NM	NM	NA	NA
84	84	85	2005073	May-11

8,974 standard prepared by USA Blue Book. 2,764 and 84 prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
200 @ 25°C	~~NM~~ 200	~~NM~~ 202	9AH048	Feb-10

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book 9/8/10

Notes:

NA - not applicable

NM - not measured

Form Rev 3.12 on 06/21/10: Updated Lot and EXP Date of pH, Cond and Zero D.O. standards. Record new TEMP. verification

HF SCIENTIFIC DTR-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	START METER READING	END METER READING	LOT NUMBER	EXPIRATION DATE
1000	1000	1000	See Below	Jan-11
100	100	100	See Below	Jan-11
10	10	10	See Below	Jan-11
0.02	.02	.02	See Below	Jan-11

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 29071, Lot# 90794

Remarks:

Weather Conditions: 90-95°F Hot & No Breeze

Equipment Blank with D.I. water

Zephyr Hills brand Lot #070110182WF233195088

Exp Date 07/01/12

Equipment Blank Data - Collected @ none collected

pH = ✓ Cond = ✓

Temp = ✓ D.O. = ✓

Turbidity = ✓

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Chris Monaco or Karen LeBeau

CALIBRATION LOG

ITS Work Order Number: ARM-EL-03-090910

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 09/09/10 @ 0615

END CALIBRATION DATE @ TIME: 09/09/10 @ 1611

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 3.12

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING START	METER READING END	VERIFY @ START	LOT NUMBER	EXP DATE
4.01	4.01	4.02	✓	2004187	May-12
7.00	7.00	7.01	7.00	2004590	Apr-12
10.00	9.99	10.00	✓	2912603	Jun-11

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	4.27	4.32		NA	06/21/10
HIGH	31.42		31.49		06/21/10

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	METER READING START	METER READING END	LOT NUMBER	EXPIRATION DATE
0.00	.25	.26	2005203	May-11
fresh air @				
23.80 °C	8.45			
27.23 °C		7.94		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	METER READING START	METER READING END	LOT NUMBER	EXPIRATION DATE
8,974	✓	✓	9AG154	Jul-10
2,764	2,764	2,771	2005407	May-11
447	NM	NM	NA	NA
84	84	85	2005073	May-11

8,974 standard prepared by USA Blue Book. 2,764 and 84 prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	METER READING START	METER READING END	LOT NUMBER	EXPIRATION DATE
200 @ 25°C	~~NM~~ 201	~~NM~~ 203	9AH048	Feb-10

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book (@) 9/9/10

Notes:

NA - not applicable

NM - not measured

Form Rev 3.12 on 06/21/10: Updated Lot and EXP Date of pH, Cond and Zero D.O. standards. Record new TEMP. verification

HF SCIENTIFIC DTR-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	METER READING START	METER READING END	LOT NUMBER	EXPIRATION DATE
1000	1000	✓	See Below	Jan-11
100	100	100	See Below	Jan-11
10	10	10	See Below	Jan-11
0.02	.02	.02	See Below	Jan-11

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 29071, Lot# 90794

Remarks:

Weather Conditions: 90 - 95°F Hot No Breeze

Equipment Blank with D.I. water

Zephyr Hills brand Lot #070110182WF233195088

Exp Date 07/01/12

Equipment Blank Data - Collected @ 1000 ITS SS#3

pH = ✓ Cond = ✓

Temp = ✓ D.O. = ✓

Turbidity = ✓

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Chris Monaco or Karen LeBeau

LANDFILL GAS CALIBRATION RECORD
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY SECOND QUARTERLY 2010

IDEAL TECH SERVICES, INC. W.O.# ARM-ELF-03 Biosystems Model PhD Lite, Serial #24199		
Date: 9/9/10	START	END
20 % LEL	20.0 %	19.8 %
Zero Air	0.0 %	0.1 %
Ambient Background	0.0 %	0.0 %
Within Limits Yes or No		yes
PRINTED NAME OF PERSON WHO PERFORMED CALIBRATION	SIGNATURE OF PERSON WHO PERFORMED CALIBRATION	
Chris Monaco		
Calibration gases prepared by Liquid Technology. Zero Air = Lot Number LTM159-MD-PG, 20% LEL = Lot Number LTM169-MM-CM		

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

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

9/8/10

Page 1 of 2

Client Name: ~~HDR, Inc. (HD002)~~ Enterprise Class III LF	Project Number: 87895
Address: ~~4440 NW 37th Place, Suite A~~ 9111 Enterprise Rd.	Project Name/Desc: Enterprise Class III LF
City/ST/Zip: ~~Gainesville, FL 32606~~ Dade City, FL 33525	PO # / Billing Info:
Tel: ~~352-377-1717 (352) 642-2004~~ Fax:	Reporting Contact: John Arnold (Report) Lynne McDaniel (Copy)
Sampler(s) Name, Affiliation (Print): Chris Monaco Ideal Tech Labs Inc.	Billing Contact: ~~Lynne McDaniel~~ John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL / EST

Requested Analyses

8011	8260B Appendix 1 FL	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn,Hg	Ammonia 350.1	Chloride 300, Nitrate 300, TDS SM2540C					

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A004527

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
	MW-15	9/07/10	1036	Grab	GW	8	2	3	1	1	1						
	MW-12B	9/07/10	1130	Grab	GW	8	2	3	1	1	1						
	MW-11B	9/07/10	1243	Grab	GW	8	2	3	1	1	1						
	MW-11	9/07/10	1317	Grab	GW	8	2	3	1	1	1						
	MW-10B	9/07/10	1350	Grab	GW	8	2	3	1	1	1						
	MW-9B	9/07/10	1425	Grab	GW	8	2	3	1	1	1						
	Supply Well	9/07/10	1616	Grab	GW	8	2	3	1	1	1						
	EQUIPMENT BLANK1	9/07/10	1626	Grab	O	8	2	3	1	1	1						O=DI WATER
	Trip Blank 1	—	—	—	O	2	—	2	—	—	—						O=LAB DI
						160	<-- Total # of Containers										

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Sample Kit Prepared By:	Date/Time: 8/26/10 1510	Relinquished By:	Date/Time: 8/26/10 1510	Received By:	Date/Time: 9/4/10 1700
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time: 9/8/10 1608	Received By:	Date/Time: 9/8/10 16:05
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air 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

ENCO

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
102-A Woodwinds Industrial Ct., Cary, NC 27511, (919) 467-3090 Fax (919) 467-3515
www.encolabs.com

Client Name: ~~HDR, Inc. (HD002)~~ Enterprise Class III LF
Address: ~~4440 NW 37th Place, Suite A~~ 41111 Enterprise Road
City/ST/Zip: ~~Gainesville, FL 32685~~ Dade City, FL 33525
Tel: ~~(352) 642-2094~~ 813-477-1719 Fax:
Sampler(s) Name, Affiliation (Print): Chris Monaco, Ideal Tech Services Inc.
Sampler(s) Signature: [signature]

Project Number: 87895
Project Name/Desc: Enterprise Class III LF
PO # / Billing Info:
Reporting Contact: John Arnold (Report) Lynne McDaniel (copy)
Billing Contact: ~~Lynne McDaniel~~ John Arnold
Site Location / Time Zone: FL / EST

Requested Analyses: 8011; 8260B Appendix 1 FL; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb, Sb,Se,Tl,V,Zn, Hg; Ammonia 350.1; Chloride 300, Nitrate 300, TDS SM2540C

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder: A004527

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8011 (I)	8260B Appendix 1 FL (H)	Metals (N)	Ammonia 350.1 (S)	Chloride/Nitrate/TDS (I)	Sample Comments
	MW-8B	9/8/10	0901	Grab	GW	8	2	3	1	1	1	
	MW-7BR	9/8/10	1003	Grab	GW	8	2	3	1	1	1	
	MW-7A	9/8/10	1105	Grab	GW	8	2	3	1	1	1	
	MW-6	9/8/10	1158	Grab	GW	8	2	3	1	1	1	
	MW 5B	9/8/10	1248	Grab	GW	8	2	3	1	1	1	
	MW-5A	9/8/10	1304	Grab	GW	8	2	3	1	1	1	
	MW-4B	9/8/10	1348	Grab	GW	8	2	3	1	1	1	
	~~MW-4~~	~~9/8/10~~		~~Grab~~	~~GW~~	~~8~~	~~2~~	~~3~~	~~1~~	~~1~~	~~1~~	(initials) 9/8/10
	Trip Blank 2	—	—	—	O	2	—	2	—	—	—	O: LAB DI

58 <-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
SP	8/26/10 1510	[signature]	8/26/10 1510	[signature]	9/7/10 1700
		[signature]	9/8/10 1608	[signature]	9/8/10 16:08

Comments/Special Reporting Requirements:

Cooler #'s & Temps on Receipt:

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water 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)

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Page 1 of 1

Client Name: ~~HDR, Inc. (HD002)~~ Enterprise Class III LF	Project Number: 87895
Address: ~~4140 NW 37th Place, Suite A~~ 4111 Enterprise Road	Project Name/Desc: Enterprise Class III LF
City/ST/Zip: ~~Gainesville, FL 32606~~ Dade City, FL 33525	PO # / Billing Info
Tel: ~~813-477-1719 (352) 642-2894~~ Fax	Reporting Contact: John Arnold (Report) Lynne McDaniel (Copy)
Sampler(s) Name, Affiliation (Print): Chris Monaco Tetra Tech Services Inc.	Billing Contact: ~~Lynne McDaniel~~ John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL / EST

Requested Analyses

8011	8260B Appendix 1 FL	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb, Sb,Se,Tl,V,Zn, Hg	Ammonia 350.1	Chloride 300, Nitrate 300, TDS SM2540C					

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A004527

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary) I	H	N	S	I					Sample Comments
	MW-4	9/9/10	0925	Grab	GW	8	2	3	1	1	1					
	Temporary Pond	9/9/10	1028	Grab	GW	8	2	3	1	1	1					
	MW-3B	9/9/10	1109	Grab	GW	8	2	3	1	1	1					
	EQUIPMENT BLANK 2	9/9/10	1000	Grab	GW	8	2	3	1	1	1					D= DI Water
	Trip Blank 3	—	—	—	O	2	—	2	—	—	—					O = Lab DI
						34	<-- Total # of Containers									

Sample Kit Prepared By: SP	Date/Time: 8/26/10 1510	Relinquished By	Date/Time: 8/26/10 1510
Comments/Special Reporting Requirements		Relinquished By	Date/Time: 9/9/10 1359
		Relinquished By	Date/Time
		Cooler #'s & Temps on Receipt	

Received By	Date/Time: 9/9/10 1700	
Received By	Date/Time: 9/9/10 1359	
Received By	Date/Time	
Condition Upon Receipt: ___ Acceptable ___ Unacceptable		

Matrix : GW-Groundwater SO-Soil DW-Drinking Water 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)

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Attachment 5
ADaPT Files