



TETRA TECH HAI

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July 12, 2006

JUL 13 2006

Via UPS Overnight

Southwest District

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

**Subject:**      **Semi-Annual Groundwater Monitoring Report**  
**Enterprise Recycling & Disposal Facility**  
**Angelo's Aggregate Materials, Ltd.**  
**FDEP Permit Nos. 177982-001-SC, 177982-002-SO**  
**Pasco County, Florida**

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Tt HAI #99.0331.029

Dear Mr. Morris:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt HAI) is providing for your review the semi-annual groundwater report for the May 2006 groundwater monitoring event for the Enterprise Recycling & Disposal Facility in accordance with the requirements listed in the above referenced Florida Department of Environmental Protection (FDEP) permit.

## 1.0 INTRODUCTION

Angelo's is currently permitted to process and dispose of Class III debris waste within an area of approximately 105 acres. The facility is located at the northwest corner of the intersection of Enterprise Road and Auton Road, Dade City, Pasco County, Florida. The facility is presently permitted for operation by the FDEP through Solid Waste Management Permit No. 177982-002-SO.

All fieldwork, monitor well installations, sampling methodologies, data evaluation, data QA/QC, chemical analysis, and statistical analysis were conducted in accordance with Angelo's FDEP approved Groundwater Monitoring Plan. This report presents the results of the May 2006 semi-annual monitoring event.

### 1.1 Groundwater Monitoring Plan

The groundwater monitoring plan currently consists of 17 groundwater monitor wells, nine (9) within the uppermost aquifer (MW-1, MW-3A, MW-4A, MW-5A, MW-6, MW-7A, MW-8A, MW-9A, and MW-10A), and eight (8) within the Floridan aquifer



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(MW-1B, MW-3B, MW-4B, MW-5B, MW-7B, MW-8B, MW-9B, and MW-10B). The groundwater monitoring network consists of two (2) upgradient background monitor wells, MW-1 and MW-1B, and eleven (15) downgradient detection monitor wells, MW-3A, MW-3B, MW-4A, MW-4B, MW-5A, MW-5B, MW-6, MW-7A, MW-7B, MW-8A, MW-8B, MW-9A, MW-9B, MW-10A, and MW-10B. A site map depicting major site features, monitor wells, and piezometers is presented on Figure 1. Piezometers P-2, P-4, P-6, P-8, P-10, P-11, and monitor well MW-11 are used for water level measurements.

## 2.0 FIELD SAMPLING ACTIVITIES AND LABORATORY TESTING

Tt HAI's field personnel collected groundwater samples for laboratory analysis in accordance with DEP-SOP-001/01, FDEP's standard operating procedure (SOP) for field activities. Groundwater samples were collected from ten (10) of the 17 monitor wells (MW-1, MW-1B, MW-5A, MW-5B, MW-6, MW-7A, MW-7B, MW-8B, MW-9B, and MW-10B) and from the onsite supply well from May 8-11, 2006 and were submitted to ENCO Laboratories. Monitor wells MW-8A, MW-9A, and MW-10A were dry and thus could not be sampled during this event. Monitor wells MW-3B and MW-4B were sampled in March 2006 prior to waste disposal in Cell 5. Monitor wells MW-3A and MW-4A were dry during that time. Water level elevations were obtained at all piezometers and monitor wells on May 11, 2006. The following paragraphs discuss the procedures used during the field activities and the analytical testing program completed for the project.

### 2.1 Field Activities

Tt HAI personnel performed field activities associated with purging and sampling of monitoring wells from May 8-11, 2006. Prior to purging the wells, depths to water and water level elevations (feet, NGVD) were recorded to the nearest hundredth of a foot from the surveyed top of casing of each well. The water level measurements were used for determining water volumes in the well casing. The water level measurements collected on May 11, 2006 were used for the preparation of groundwater contour maps to estimate groundwater flow direction.

A peristaltic pump was used to purge monitor wells MW-5A, MW-5B, and MW-6 since the depth to water in each well was less than 22 feet. A stainless steel submersible pump was used to purge the remainder of the sampled monitor wells. Once drawdown stabilized, a minimum of one well volume, or one equipment volume if the entire screen was submerged, was purged prior to initial measurements of the field parameters. After the field parameters stabilized within the required limits, samples were collected. All sampling equipment was fully decontaminated between monitor wells pursuant to



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Tt HAI's quality assurance protocols and the DEP-SOP-001-01. Following completion of purging activities, samples were collected by Tt HAI in accordance with DEP-SOP-001/01, FDEP's SOP for field activities, from the wells using a peristaltic pump, or submersible pump. Samples collected for analysis of volatile compounds using the peristaltic pump were collected from the sample tubing. During sampling, field parameters including static water levels (before purging), pH, temperature, dissolved oxygen, turbidity, color and sheen (by observation), and specific conductance were measured and recorded for each well on a water sampling log. The groundwater sampled from the supply well was collected from a sample port between the well head and the storage tank. Prior to collection of this groundwater sample, a polyethylene tube was attached to the sample port to collect water for field parameter measurements. Once the field parameters stabilized and a minimum of 20-gallons of water was purged from the sample port, the sample was collected per FDEP SOP sampling protocols. Following collection of samples into laboratory provided containers and ice chests; the samples were transported to the contract laboratory under signed chain of custody documentation. Copies of the Groundwater Sampling Logs are provided in Appendix A.

Samples were also collected from the temporary pond and Pond 1, as required by Pasco County. Field logs for collection of these samples are also provided in Appendix A.

### 2.2 Laboratory Analysis and QA/QC

The groundwater samples collected from the site were transported to ENCO Laboratories, in Orlando, Florida for analytical testing in accordance with ENCO's CompQAP No. 960038 and NELAC E83182. The FDEP required analytes for this event included the seven (7) field parameters, total ammonia as N, chlorides, iron, mercury, nitrate, sodium, total dissolved solids, and the parameters listed in 40 CFR Part 258, Appendix I. Samples collected from monitor wells MW-3B and MW-4B in March 2006 were analyzed for the parameters listed in 40 CFR Part 258, Appendix II in addition to these parameters.

The required analytical parameters for the temporary pond sample include conductivity, nitrates, and chemical oxygen demand. The required analytical parameters for the Pond 1 sample include field parameters, unionized ammonia, bicarbonate,  $BOD_5$ , copper, iron, mercury, nitrate, sodium, zinc, TDS, total organic carbon, fecal coliform, total phosphates, chlorophyll A, and total nitrogen.

### 3.0 QUALITY ASSURANCE AND QUALITY CONTROL

One (1) equipment blank was collected as part of the field sampling and analysis activities. Analytes detected in the blank included antimony at a concentration of 30 ug/L, chlorides at a concentration of 0.79 mg/L, cobalt at a concentration of 2 ug/L, toluene at a



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concentration of 14 ug/L. It is possible that these detections were due to an impurity in the analyte-free water used for decontamination procedures or that the decontamination procedures were not as thorough as required for complete decontamination during this sampling event. However, after discussion with ENCO Laboratories, it was determined that contaminated standards had been used on the laboratory equipment, thereby resulting in elevated parameter detections reported in the samples. Further discussion is provided in Section 4.2.

All samples submitted to ENCO were analyzed within the required holding times as determined by the analytical methods. The laboratory method blanks did not indicate detectable concentrations of any parameters. The results of all laboratory control standards were within acceptable limits. The quality control and quality assurance results are summarized and presented with the analytical reports in Appendix B.

### 4.0 MONITORING RESULTS

Groundwater conditions at the facility were evaluated based on physical and analytical data obtained as a part of the sampling event. Physical data included groundwater elevations to determine the direction of groundwater flow within the monitored aquifers. The data were also compared to the applicable State of Florida groundwater quality standards in accordance with the requirements of the operating permit. The following paragraphs discuss groundwater conditions at the facility during this sampling period.

#### 4.1 Groundwater Flow

The water level measurements collected by Tt HAI personnel during the event were converted to potentiometric head elevations relative to the National Geodetic Vertical Datum (NGVD). The potentiometric head elevations are presented in Table 1 and on Figure 2 (surficial aquifer) and Figure 3 (Floridan aquifer).

Potentiometric elevations in the Floridan aquifer ranged from a low of 66.65 feet, NGVD in piezometer P-8 near the south portion of the property to a high of 68.58 feet, NGVD in monitor well MW-10B near the southeast area of the property. Relative to water levels measured in October 2005, overall groundwater elevations measured in May 2006 have ranged from a decrease of 2.95 feet to 13.57 feet throughout the site.

The groundwater elevations at monitor wells MW-7A, MW-7B, and piezometer P-6 shown on Table 1 are not accurate. The wells were modified prior to the sampling event to accommodate an on-site road, however, the new top of casing elevations have not yet been surveyed. Tt HAI recommends these wells be re-surveyed prior to the October 2006 semi-annual sampling event.



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Groundwater in the surficial aquifer, as shown in Figure 2, has an overall flow direction "downhill" towards the east, which is different from the October 2005 sampling event, but similar to the April 2005 sampling event. We interpret this change as a transient response to lower water levels. The Floridan aquifer, as shown in Figure 3, has a flow direction from the north toward the south, and from the southeast toward the north-west (central) portion of the site, which is somewhat consistent with the previous sampling event. The addition of monitor well MW-12B to the monitoring network has caused the Florida groundwater flow direction to shift slightly toward the central portion of the site before eventually flowing south toward piezometer P-8. The groundwater elevations at P-11 have been historically high and are not consistent with the groundwater elevations of either the surficial or the Floridan aquifer monitor wells and piezometers. The water level at P-11 likely represents a perched water table or a water level within the clay confining unit, and is therefore not used in the groundwater contour maps. The groundwater elevations at MW-5A have typically been high during past monitoring events, but appear to be higher than surrounding surficial monitor wells during the May sampling events, compared to the October sampling events. The high groundwater level at MW-5A likely represent a perched water table or a water level within the clay confining unit, and is therefore also not used in the groundwater contour map.

Groundwater levels also appeared to be high at monitor well MW-6 during the October 2005 sampling event, but appears to have rebounded to normal levels during the May 2006 sampling event. Since the groundwater elevation levels at monitor well MW-7A and piezometer P-6 were incorrect due to incorrect top of casing elevations, these wells were also not used in the groundwater contour map.

## 4.2 Evaluation of Groundwater Quality Results

Table 2 lists the analytes for each monitor well that exceeded the water quality MCLs or other guidance concentrations. A disc with the laboratory analytical reports in the FDEP Data Validator format is provided in Appendix C.

Iron exceeded the State criterion in the sample from MW-1, with a concentration of 0.431 mg/L. Other parameters were detected in some of the monitor well samples but did not exceed concentration criteria. Those parameters include 1,4-dichlorobenzene, carbon disulfide, ammonia, chloride, cobalt, chromium, nitrate, nitrite, sodium, toluene, TDS, vanadium, alkalinity (no criteria found), and bicarbonate (no criteria found).

The initial report for groundwater samples from monitor wells MW-1, MW-5A, MW-5B, MW-6, MW-7A, and MW-7B indicated exceedances in vanadium in each of the samples, ranging from 50 to 63 ug/L. However, after discussion with ENCO Laboratories it was determined that contaminated standards had been used on the laboratory equipment,

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resulting in elevated parameter detections reported for the samples. All of the groundwater samples were re-analyzed for vanadium and all of the samples had detections of vanadium below the MCL. A narrative from ENCO Laboratories explaining the contamination in more detail is included in Appendix B.

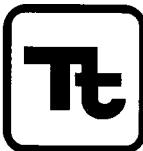
Dissolved oxygen content exceeded the 20% saturation limit in monitor wells MW-1B, MW-5A, MW-5B, MW-6, MW-7A, MW-9B, MW-10B, and the supply well onsite even though the wells were purged at flow rates of approximately 0.025 to 1.0 gallon per minute, and in accordance with the DEP SOP requirements. The dissolved oxygen results are relatively consistent with previous sampling events. Turbidity was below 20 NTUs in each of the monitor wells sampled.

Field pH values were below the 6.5 to 8.5 standard unit (SU) range in monitor wells MW-1, MW-5A, MW-6, and MW-7A. This is not uncommon in the surficial aquifer. Field pH was above the 6.5 to 8.5 range for monitor well MW-7B, which observed a value of 11.63 SU. This result is consistent with past results and is likely the result of residual grout in the well. This monitor well was to be re-developed prior to this sampling event, however, it was inadvertently not completed due to miscommunication. Tt HAI recommends this monitor well be re-developed prior to the next sampling event.

The initial groundwater sampling event for monitor wells MW-3B and MW-4B was conducted in March 2006, prior to waste disposal operations in Cell 5 and prior to the semi-annual sampling event. Based on their locations, these monitor wells are generally considered to indicate background groundwater conditions at the site. Parameters were detected in some of the monitor well samples but did not exceed concentration criteria. Those parameters include bis(2-ethylhexyl)phthalate, chloride, barium, cyanide, iron, mercury, nitrate, sodium, TDS, tin, vanadium, and zinc.

### 5.0 CONCLUSION

Groundwater levels are lower in each of the monitor wells and piezometers, than during the October 2005 sampling event, and flow direction is consistent in both the surficial and Floridan aquifer compared to the April 2005 sampling event. The groundwater flow directions in the surficial aquifer appear to fluctuate from one sampling event to another, but remain consistent during the wet and dry seasons when compared year to year. With the exception of iron, which was detected above the MCL, no other metals or indicator parameters were found to exceed State minimum criteria. Six monitor well samples and the supply well sample exceeded the standard for dissolved oxygen; and five monitor well samples exceeded the standard for pH, but these conditions are believed to be naturally occurring in the groundwater in this area.



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Please call me if you have any questions concerning the data presented in this report.

Very truly yours,

**Tetra Tech HAI**



Jennifer L. Deal, P.E.  
Project Manager



Miguel A. Garcia, P.G.  
Project Hydrogeologist

JLD/cr/99.0331.029/corresp/SemiAnnGMR.doc  
Attachments

cc: John Arnold/Jeff Rogers, Angelo's  
Andy Alipour, Pasco County

# Florida Department of Environmental Protection

Suite 232 3319 Maguire Boulevard Orlando, Florida 32803

## GROUND WATER MONITORING REPORT Rule 62-522.600 (11)

### PART I GENERAL INFORMATION

(1) Facility Name Enterprise Recycling and Disposal Facility

Address 41111 Enterprise Road

City Dade City

Zip 33525

County Pasco

Telephone Number (352) 567-7676

(2) Facility WACS Number SWD-51-87895

(3) DEP Permit Number 177982-001-SC, 177982-002-SO

(4) Authorized Representative's Name Jennifer L. Deal, P.E. Title Project Manager

Address Tetra Tech / Hartman & Associates, Inc. 201 E. Pine Street, Suite 1000

City Orlando

Zip 32801

County Orange

Telephone Number (407) 839-3955

(5) Type of Discharge Class III Landfill

(6) Method of Discharge unlined landfill

### 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 false information including the possibility of fine and imprisonment.

7/11/06

  
Owner or Authorized Representative's Signature

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Comp QAP # Tetra Tech HAI #950504

Analytical Lab Comp QAP #/ HRS Certification ENCO #960038, HRS #E83182, NELAC #E83182

Lab Name ENCO Laboratories

Address 10775 Central Port Drive, Orlando, Florida 32824

Phone Number (407) 826-5314

## **TABLES**

**TABLE 1**  
**WATER LEVEL ELEVATIONS**  
**ENTERPRISE RECYCLING AND DISPOSAL FACILITY**  
**DADE CITY, FLORIDA**

Location	TOC Elevation, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD	Aquifer Monitored	Change in Groundwater Elevation, ft (Oct-May)
		October 26, 2005	October 26, 2005	May 11, 2006	May 11, 2006		
MW-1***	116.71	43.77	72.94	28.76	69.99	Surficial	-2.95
MW-1B	174.48	102.47	72.01	106.47	68.01	Floridan	-4.00
MW-3A	85.39	**	**	Dry	-	Surficial	-
MW-3B	84.80	**	**	16.59	68.21	Floridan	-
MW-4A	100.59	**	**	21.55	79.04	Surficial	-
MW-4B	100.87	**	**	32.65	68.22	Floridan	-
MW-5A*	86.74	8.08	78.66	11.97	74.77	Surficial	-3.89
MW-5B	85.70	13.62	72.08	17.65	68.05	Floridan	-4.03
MW-6	88.65	7.38	81.27	20.95	67.70	Surficial	-13.57
MW-7A****	92.46	19.68	72.78	32.63	59.83	Surficial	-12.95
MW-7B****	93.24	21.14	72.10	33.50	59.74	Floridan	-12.36
MW-8*	100.10	Dry	-	Dry	-	Surficial	-
MW-8B	108.34	36.33	72.01	40.32	68.02	Floridan	-3.99
MW-9	108.00	Dry	-	Dry	-	Surficial	-
MW-9B	109.75	37.38	72.37	41.38	68.37	Floridan	-4.00
MW-10*	111.62	Dry	-	Dry	-	Surficial	-
MW-10B	110.00	37.61	72.39	41.42	68.58	Floridan	-3.81
MW-11	104.45	32.00	72.45	35.65	68.80	Surficial	-3.65
MW-12A	121.43	**	**	52.78	68.65	Surficial	-
MW-12B	121.84	**	**	53.41	68.43	Floridan	-
P-2	98.73	26.41	72.32	30.58	68.15	Surficial	-4.17
P-4	84.55	10.33	74.22	15.19	69.36	Surficial	-4.86
P-6****	94.16	18.16	76.00	34.87	59.29	Surficial/Floridan	-16.71
P-8	133.94	63.29	70.65	67.29	66.65	Floridan	-4.00
P-10	132.60	60.54	72.06	64.52	68.08	Floridan	-3.98
P-11*	150.76	52.73	98.03	58.63	92.13	Floridan	-5.90
TP		Staff Gauge Destroyed					
TP - Temporary Pond							
TOC - top of casing							
BTOC - below top of casing							
* Considered perched water table							
** Monitor wells not installed at time of water level measurement							
***Monitor well modified, new TOC = 98.75 FT, NGVD							
****Monitor well modified, new TOC not yet surveyed, water level not accurate							

**TABLE 2**  
**GROUNDWATER EXCEEDENCES**  
**ENTERPRISE RECYCLING AND DISPOSAL FACILITY**  
**DADE CITY, FLORIDA**  
**MAY 2006**

<b>Monitor Well</b>	<b>Parameter</b>	<b>Result</b>	<b>MCL/MC</b>	<b>Units</b>
MW-1	pH	5.16	6.5-8.5	STD
	Iron	0.431	0.3	mg/L
MW-1B	Dissolved Oxygen	51.6	20	%
MW-5A	pH	5.71	6.5-8.5	STD
	Dissolved Oxygen	60.7	20	%
MW-5B	Dissolved Oxygen	58.6	20	%
MW-6	pH	5.13	6.5-8.5	STD
	Dissolved Oxygen	33.0	20	%
MW-7A	pH	5.50	6.5-8.5	STD
	Dissolved Oxygen	55.8	20	%
MW-7B	pH	11.63	6.5-8.5	STD
MW-9B	Dissolved Oxygen	62.1	20	%
Supply Well	Dissolved Oxygen	54.0	20	%
<hr/>				
MCL - Maximum Contaminant Limit per FAC 62-550 and FAC 62-520				
MC - Groundwater Quality Minimum Criteria, per FAC 62-777				

## **FIGURES**

**APPENDIX A**

## FIELD LOG

PROJ# 99.0331.029NAME: Dale Claytor

PROJECT

NAME:

PROJECT

LOCATION:

Enterprise Road Landfill Sampling DATE: 5/8/06  
Dade City, FL

TIME	COMMENTS
0830	On site. Checked in with Jeff at Scale House.
0835	Moving to MW-1B.
0840	On location MW-1B. Setting up decora station.
0910	Set up decora station. Disassembled ESP and <del>decorated</del> decorated IAW DEP-SOP-001/01, FC 1000. Decored WL probe also preparing to collect GRS.
0924	Collected GRS, see attached Groundwater Sampling Log. Preparing to calibrate field meters.
0953	Calibrated field meters, see attached Calibration Log. Preparing to sample MW-1B. See attached Groundwater Sampling Log for well data, purge volume calculations and measurements, field parameter measurements and sample data for each well sampled during this event.
1125	Completed sampling MW-1B, decored ESP and WL probe. Moving to MW-1.
1140	MW-1 has been modified or damaged, it's hard to tell. There is several feet of riser laying on the ground around MW-1. Grout has been broken away and is scattered around MW-1. There is no access to the well, had to climb a steep wall of sand to get to well. Is washed away in places around well; well is elevated about 15' on wall east of well. Moving to MW-10A.
1150	On location on MW-10A, preparing to sample.
1300	Completed sampling MW-10A. Decored SS ESP and WL probe.
1305	Attempted to measure WL in Well MW-10, well is dry. Moving to MW-9.
1315	Attempted to measure WL in Well MW-9, well is dry. Setting up on MW-9B. Decored WL probe.
1415	Completed sampling MW-9B. Decored SS ESP

## FIELD LOG

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

NAME: Dale Clayton

PROJECT

NAME: Enterprise Road Landf. 11

DATE: 5/8/06

PROJECT

LOCATION:

Dade City, FL

TIME	COMMENTS
1430	and WL probe. Moving to MW-8B
1325	On location on MW-8B, preparing to sample. (Completed Sampling MW-8B, decorated SS ESP and WL probe).
1327	Attempted to measure WL in well MW-8, Well is dry. Moving to Supply well.
Note:	Observed temporary pond, is nearly dry. Only 1 to 2 inches of water in a pool near center of south side of pond.
1600	On location Supply well. Preparing to sample.
1630	Completed sampling supply well. Packing up equipment.
1642	Rinsed and packed equipment. Prepared samples for transport
1645	Off site.
	5/10/06
0820	On site. Collected in with Scale House. Moving to MW-7B.
0830	On location MW-7B. Road condition is very sloppy due to rain. Very muddy. Setting up decon station
0900	Set up decon station and decorated SS ESP and WL probe. IAW DEP-SOP-001/01, FC 1000. Preparing to calibrate field meters.
0918	Calibrated field meters, see attached Calibration Log.
1030	Completed Sampling MW-7B, decorated SS ESP and WL probe. Conditions around wells are really sloppy, plus there's no where to stand for easy access to wells because ground level is below top of vaults around wells MW-7A & MW-7B. Moving to MW-7A.
1135	Had trouble with MW-7A, had to fish out dedicated 1/4" PE tubing. Had fallen down inside well. Will have to use a ESP due to WL depth (below PP capability).
1211	Turbidity in MW-7A is high. Moving to MW-6. Will continue to page MW-7A while sampling MW-6.

## FIELD LOG

PROJ # 99.0331.029NAME: Dale Clayton

PROJECT

NAME: Enterprise Road Landfill

DATE:

5/10/06

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1220	On location MW-6, preparing to sample.
1315	Completed sampling MW-6, moving back to MW-7A.
1320	On location on MW-7A, GW was cleaned up nicely. Preparing to sample.
1415	Completed sampling MW-7A, decorated SS ESP and WL probe. Moving to MW-1.
1430	On location near MW-1, still have no access. Spoke with Jeff early this morning about making a road to MW-1. Just spoke with Jeff again, says it's too sloppy to make a road at this time. He wants me to load my equipment in a backhoe bucket and lift me equipment up + well. Only problem is I didn't get my ESP power source close enough to well to power the ESP. Will return to MW-1 tomorrow with a mobile 12v battery. Moving to MW-5 cluster.
1500	Will to get <del>there</del> to MW-5. Made it close on top of eastern berm. Will carry in equipment.
1515	On location MW-5B, preparing to sample.
1553	Completed sampling MW-5B, decorated WL probe. Moving to MW-5A
1558	On location MW-5A, preparing to sample.
1650	Completed sampling MW-5A. Rinsed equipment.
1700	Packed up equipment. Completed sampling for the day.
1730	Cleaned mud off of truck with pressure washer. Off site.

## FIELD LOG

PROJ # 97.0331.029NAME: Dale Clayton

PROJECT

NAME: Enterprise Road LandfillDATE: 5/11/06

PROJECT

LOCATION: Jade City, FL

TIME	COMMENTS			
	Well #	WL (ft, b+oc)	Well #	WL (ft, b+oc)
0850		On site. Checked in with Scale House.		
0900		Began measuring well water levels as follows:		
	MW-1	28.76' / 32.35' TD	MW-10	Dry
	MW-1B	100.47'	MW-10B	41.62'
	MW-5A	11.97'	MW-11	35.65'
	MW-5B	17.65'	P-2	30.58'
	MW-6	20.95'	P-4	15.19'
	MW-7A	32.63'	P-6	34.87'
	MW-7B	33.50'	P-10	64.52'
	MW-8	Dry	P-11	58.63'
	MW-8B	40.32'	P-8	67.29' *
	MW-9	Dry	MW-3A	67.4' *
	MW-9B	41.38'	MW-3B	16.59' *
	MW-4A	21.55' *	MW-12A	52.78' *
	MW-4B	32.65' *	MW-12B	53.41' *
1030		Was able to find access to well MW-1 by going down western slope near MW-1. Will carry equipment to well. Calibrating field meters.		
1041		Calibrated field meters, see attached Calibration Log. Dismantled equipment. Moving to MW-1.		
1150		Completed sampling MW-1, removed equipment.		
1238		Completed measuring well water levels. Preparing to sample Temporary Pond.		
1251		Collected Temporary Pond Samples, see attached Field Sample Data Record.		
1303		Collected Pond 1 samples, see attached Field Sample Data Record. Preparing CQC.		
1330		Completed CQC, off site for Encolab.		
1445		Rerlinquished Samples to Encolab, see attached CQC.		
*		Needs lock		

## **Field Instrument Calibration Records**

**INSTRUMENT (MAKE/MODEL#)** Horiba U-10/Lamotte 2020 **INSTRUMENT #** \_\_\_\_\_

#### **PARAMETERS:**

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

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

Standard A Calitech Autocal Solution Exp:

Standard B Lamotte 2020 Standard 1 NTU

**Standard C Lamotte 2020 Standard 10 NTU's**

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 5/11/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 28.76	PURGE PUMP TYPE OR BAILER: ESP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

$$= ( \text{feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$$

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

$$1 \text{ Equip Vol} = .01 \text{ gallons} + (.006 \text{ gallons/foot} \times 37' \text{ feet}) + .25 \text{ gallons} = .482 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~32'  
FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~32'

PURGING INITIATED AT: (0)' 6 PURGING ENDED AT: 1110 TOTAL VOLUME PURGED (gallons): 2.24

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1106	1.6	1.6	16	29.30	5.17	23.7	033	1.60	12.9	Clear	None
1108	1.32	1.92	16	29.30	5.18	23.6	033	1.51	9.46	Clear	Aloha
1110	1.32	2.24	16	29.30	5.16	23.6	033	1.52	5.00	Clear	None
									17.9%		
									No shear		

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1111	SAMPLING ENDED AT: 1118					
PUMP OR TUBING DEPTH IN WELL (feet): ~32'	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	VOC's <100 mL	TUBING MATERIAL CODE: PE					
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: μm	DUPLICATE: Y					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-1	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

## REMARKS:

1056: Inserted new 3/8" PE tubing and ESP to ~ 32' 6-toc and began purging @ 16 9pm.

1059: WL 29.30' @ 16 9pm, GW is slightly turbid (orange).

1102: WL 29.30' @ 16 9pm, draw down has stabilized.  
GW is turbid, will purge until clear.

1105: WL 29.30' @ 16 9pm, turbidity is 23 NTU's.

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

2) Packed samples on ice immediately upon collection

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

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-1B	SAMPLE ID: MW-1B	DATE: 5/8/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

$$= (116.00' \text{ feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$$

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

$$1 \text{ Equipment Vol.} = 1 \text{ gallons} + (0.006 \text{ gallons/foot} \times 116 \text{ feet}) + 0.25 \text{ gallons} = 1.046 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~111' FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~111' PURGING INITIATED AT: 1016 PURGING ENDED AT: 1058 TOTAL VOLUME PURGED (gallons): 13.86

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1054	12.54	12.54	1.33	106.51	6.83	25.3	196	4.40	8.64	Clear	None
1056	16.6	13.20	1.33	106.51	7.03	25.2	194	4.36	5.96	Clear	None
1058	16.6	13.86	1.33	106.51	7.17	25.4	193	4.23	4.61	Clear	None
								51.6%	No Scent		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Tt/HAI, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1108					
PUMP OR TUBING DEPTH IN WELL (feet): ~111'	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	VOC's <100 mL	TUBING MATERIAL CODE: PE					
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: ____ μm Filtration Equipment Type:	DUPPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-1B	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

## REMARKS:

1016: Inserted new 3/8" PE tubing and ESP to ~111' 6ftc and began purging @ 1.33 gpm.

1019: WL 106.51 @ 1.33 gpm, GW is extremely turbid.

1023: WL 106.51 @ 1.33 gpm, GW is slowly clearing up. Will purge until clear. Turbidity is 122 NTUs. Drawdown has stabilized. 1050: GW is clear

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

2) Packed samples on ice immediately upon collection

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-5A	SAMPLE ID: MW-5A	DATE: 5/10/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .25" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH (feet): 30' TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

$$= \left( \frac{30.50'}{30.00'} \right) \text{ feet} \times \text{feet} = \text{gallons/foot} = \text{gallons}$$

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

$$1 \text{ Equip Vol.} = 0 \text{ gallons} + (0.0026 \text{ gallons/foot} \times 30' \text{ feet}) + 0.25 \text{ gallons} = 0.328 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~25' FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~25' PURGING INITIATED AT: 1605 PURGING ENDED AT: 1623 TOTAL VOLUME PURGED (gallons): 1.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1614	.90	.90	.10	13.17'	6.50	25.4	063	5.05	3.13	Clear	None
1616	.20	1.10	.10	13.19'	6.26	25.4	063	4.99	3.01	Clear	None
1618	.20	1.30	.10	13.19'	6.05	25.3	062	5.07	4.95	Clear	None
1620	.20	1.50	.10	13.17'	5.79	25.1	062	4.99	4.38	Clear	None
1622	.20	1.70	.10	13.16'	5.75	25.0	062	4.99	4.02	Clear	None
				13.17'	5.71	25.1	062	5.01	7.32	Clear	None
								60.7%			
								No shear			

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Tt/HAI, Inc.	SAMPLER(S) SIGNATURES: <i>H. L. Claytor</i>	SAMPLING INITIATED AT: 1623	SAMPLING ENDED AT: 1640
PUMP OR TUBING DEPTH IN WELL (feet): ~25'	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	VOC's <100 mL	TUBING MATERIAL CODE: PE
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: μm	DUPPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-5B	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	PP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	RFPP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	RFPP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	PP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	PP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	PP

## REMARKS:

- 1605: Attached a PB to dedicated 1/4" PE tubing set @ ~25' b.t.c and began purging @ 10 gpm.
- 1608: WL 13.16' @ 10 gpm, cut is clear.
- 1610: WL 13.18' @ 10 gpm, drawdown is stabilizing.
- 1612: WL 13.17' @ 10 gpm, drawdown stabilized.

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill		99.0331.029	SITE LOCATION: Dade City, FL								
WELL NO: MW-5B	SAMPLE ID: MW-5B		DATE: 5/10/06								
<b>PURGING DATA</b>											
WELL 2" PVC DIAMETER (inches):	TUBING .25" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 17.60 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = ( 30.30 - 17.60 ) feet X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	PURGING INITIATED AT: 1533	PURGING ENDED AT: 1535	TOTAL VOLUME PURGED (gallons): 1.20							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1531	.80	.80	.10	17.64	7.32	25.9	193	4.44	14.9	Clear	None
1533	.20	1.00	.10	17.64	7.38	25.8	193	4.80	14.1	Clear	None
1535	.20	1.20	.10	17.64	7.46	25.8	193	4.77	9.30	Clear	None
5/10/06 No Stream											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1536	SAMPLING ENDED AT: 1546					
PUMP OR TUBING DEPTH IN WELL (feet): ~45'	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N	FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filter Type:	FILTER SIZE: _____ μm	DUPPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N					
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)			FINAL pH
	1	PE	500 mL	None	NONE	--	Bicarb, Chloride, Nitrate Nitrite, TDS	PP
"	3	CG	40 mL	HCl	NONE	--	8260 - App I Low	RFPP
"	2	CG	40 mL	None	NONE	--	8011 (EDB/DBCP)	RFPP
"	1	PE	250 mL	H <sub>2</sub> SO <sub>4</sub>	NONE	--	Ammonia	PP
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	--	Sb, Ti	PP
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	--	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	PP

## REMARKS:

1523: Attached a PP to dedicated 1/4" PE tubing set @ ~45' btoc and began purging @ 109pm

1527: WL 17.65 @ 109pm, GW is clear.

1529: WL 17.64 @ 109pm, drawdown has stabilized.

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

2) Packed samples on ice immediately upon collection

MATERIAL CODES:	AG = Amber Glass;	CG = Clear Glass;	PE = Polyethylene;	PP = Polypropylene;	S = Silicone;	T = Teflon;	O = Other (Specify)
SAMPLING/PURGING EQUIPMENT CODES:	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump		

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-6	SAMPLE ID: MW-6	DATE: 5/10/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .25" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

$$\text{Well Vol} = (30.50' \text{ feet} - 20.29' \text{ feet}) \times 16 \text{ gallons/foot} = 1,633.6 \text{ gallons}$$

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

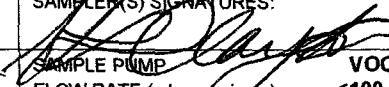
$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

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):
~21'	~24'			

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1245	2.12	2.12	.04	23.16	5.13	26.7	.083	2.51	21.4	Clear	None
1248	2.24	2.24	.04	23.14	5.13	27.3	.083	2.58	17.4	Clear	None
1250	2.36	2.36	.04	23.15	5.14	27.4	.083	2.58	16.5	Clear	None
1252	2.48	2.48	.05	23.16	5.13	27.4	.083	2.61	14.5	Clear	None
								33%			
								No shear			

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1253	SAMPLING ENDED AT: 1304					
PUMP OR TUBING DEPTH IN WELL (feet): ~24'	SAMPLE PUMP: FLOW RATE (ml per minute): <100 mL	VOC's MATERIAL CODE: PE	TUBING					
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: μm	DUPPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-6	1	PE	500 mL	None	NONE	--	Bicarb, Chloride, Nitrate Nitrite, TDS	PP
"	3	CG	40 mL	HCl	NONE	--	8260 - App I Low	RFPP
"	2	CG	40 mL	None	NONE	--	8011 (EDB/DBCP)	RFPP
"	1	PE	250 mL	H2SO4	NONE	--	Ammonia	PP
"	1	PE	250 mL	HNO3	NONE	--	Sb, Ti	PP
"	1	PE	250 mL	HNO3	NONE	--	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	PP

## REMARKS:

1228: ~~Attached~~ Attached a PP to dedicated 1/4" PE tubing set @ ~21' btoc and began purging @ 16 gpm.  
1232: Lowered tubing to ~22' btoc, well is drawing down  
1239: WL 22.80' @ 16 gpm, lowered tubing to ~24' btoc.  
Slowed flow rate to ~.08 gpm to control drawdown.  
1242: Well still drawing down, slowed flow rate to ~.048 gpm.  
(Slow as pump w/ 1150) (over).

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

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-7A	SAMPLE ID: MW-7A	DATE: 5/19/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .25" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 32.58 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP-ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$45.90 - 32.58 = 12.32$ feet X 0.75" = 9.24 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~41'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~41'	PURGING INITIATED AT: 1138	PURGING ENDED AT: 1346	TOTAL VOLUME PURGED (gallons): 214							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1328	5.42	5.42	.10	39.86	5.50	25.6	.027	5.51	19.3	Clear	None
1330	1.2	5.42	.10	39.86	5.52	25.9	.027	5.50	16.9	Clear	None
1342	1.2	6.24	.10	39.86	5.46	26.2	.027	4.56	19.6	Clear	None
1344	1.2	6.94	.10	39.86	5.46	26.2	.027	4.58	12.4	Clear	None
1346	1.2	7.14	.10	39.86	5.50	26.3	.027	4.50	12.5	Clear	None
								55.8%		No shear	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Tt/HAI, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 1354				
PUMP OR TUBING DEPTH IN WELL (feet): ~41'	SAMPLE PUMP FLOW RATE (ml per minute): <100 mL	VOC's MATERIAL CODE: PE	TUBING				
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: $\mu\text{m}$	DUPPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED			TOTAL VOL ADDED IN FIELD (mL)
MW-7A	1	PE	500 mL	None	NONE	--	Bicarb, Chloride, Nitrate Nitrite, TDS ESP PP
"	3	CG	40 mL	HCl	NONE	--	8260 - App I Low ESP RPPP
"	2	CG	40 mL	None	NONE	--	8011 (EDB/DBCP) ESP RPPP
"	1	PE	250 mL	H2SO4	NONE	--	Ammonia ESP PP
"	1	PE	250 mL	HNO3	NONE	--	Sb, Ti SSO PP
"	1	PE	250 mL	HNO3	NONE	--	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na ESP PP

## REMARKS:

1138: Inserted new 3/8" PE tubing and ESP to ~41' 6ftoc and began purging @ 16 9pm.

1145: WL 35.62 @ 16 9pm, GW is turbid. WL is slowly drawing down. Slowed flow rate to ~.10 gpm.

1149: WL 35.52 @ 19pm, drawdown appears to have stabilized. GW is extremely turbid.

1208: Turbidity still @ 45 NTU's, will purge until clear.

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

2) Packed samples on ice immediately upon collection

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

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-7B	SAMPLE ID: MW-7B	DATE: 5/10/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .25" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 33.48 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP-ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$= (68.00 - 33.48) \text{ feet} \times 0.75 \text{ gallons/foot} = 36.75 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~68	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~68	PURGING INITIATED AT: 0940	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (gallons): 3							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0949	1.8	1.8	.20	33.81	11.73	24.5	306	.99	7.11	Clear	None
0951	.4	2.2	.20	33.81	11.69	24.7	274	1.02	6.72	Clear	None
0953	.4	2.6	.20	33.81	11.67	24.6	270	1.01	4.69	Clear	None
0955	.4	3	.20	33.81	11.63	24.7	267	1.02	3.67	Clear	None
								12.3%	No shear		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Tt/HAI, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0956	SAMPLING ENDED AT: 1003					
PUMP OR TUBING DEPTH IN WELL (feet): ~68	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	VOC's TUBING	MATERIAL CODE: PE					
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: _____ μm Filtration Equipment Type	DUPPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE		
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-7B	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	PP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP RPPP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP RFPP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	ESP PP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	ESP PP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP PP

## REMARKS:

0940: inserted new 3/8" PE tubing and ESP to ~68' btoc and began purging @ .20 gpm.

0944: WL 33.81 @ .2 gpm, GW is clear.

0946: WL 33.84 @ .2 gpm, drawdown is stabilizing.

0948: WL 33.81 @ .2 gpm, drawdown has stabilized.

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

2) Packed samples on ice immediately upon collection

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

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 5/18/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH <u>35.36</u> TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
<u>= (35.94 - 35.36) x 0.75" = 0.02</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
<u>= 0.0006 + (0.0006 x 100) + 0.0006 = 0.0012</u> 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. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<i>Well is dry</i>											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:					
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): <u>&lt;100 mL</u>	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: <u>0.45 μm</u> Filtration Equipment Type:	DUPPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION								
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-8	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H <sub>2</sub> SO <sub>4</sub>	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

REMARKS:

*2' Samp in well.*

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-8B	SAMPLE ID: MW-8B	DATE: 5/8/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 40.23	PURGE PUMP TYPE OR BAILER: ESP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

$$= (52.0) \text{ feet} - (\text{feet}) \times \text{gallons/foot} = \text{gallons}$$

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

$$1 \text{ Equipment Vol.} = .01 \text{ gallons} + (.006 \text{ gallons/foot} \times 52' \text{ feet}) + .25 \text{ gallons} = .602 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~52'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~52'	PURGING INITIATED AT: 1448	PURGING ENDED AT: 1501	TOTAL VOLUME PURGED (gallons): 3.25
---	---	----------------------------	------------------------	-------------------------------------

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUS)	COLOR (describe)	ODOR (describe)
1457	2.25	2.25	.25	40.28	7.65	25.5	.283	.33	1.92	Clear	Aroma
1459	.25	2.25	.25	40.28	7.64	25.4	.282	.39	1.66	Clear	None
1501	.25	3.25	.25	40.28	7.63	25.2	.280	.37	1.43	Clear	None
								4.5%		No Sheen	

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1502	SAMPLING ENDED AT: 1507					
PUMP OR TUBING DEPTH IN WELL (feet): ~52'	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	VOC's	TUBING MATERIAL CODE: PE					
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: ____ μm	DUPPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-8B	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

## REMARKS:

1448: Inserted new 3/8" PE tubing and ESP to ~52' 6sec and began purging @ .25 9pm.

1453: WL 40.28" @ .25 9pm, GW is clear.

1455: WL 40.28" @ .25 8pm, drawdown has stabilized.

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

2) Packed samples on ice immediately upon collection

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 5/8/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 29.42 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

$$= (29.77 \text{ feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$$

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

$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

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):

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>			SAMPLER(S) SIGNATURES:			SAMPLING INITIATED AT:	SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):			SAMPLE PUMP FLOW RATE (mL per minute): <b>&lt;100 mL</b>			TUBING MATERIAL CODE: <b>PE</b>		
FIELD DECONTAMINATION: Y N			FIELD-FILTERED: Y N Filter Equipment Type:			DUPPLICATE: Y N		
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-9	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H <sub>2</sub> SO <sub>4</sub>	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

REMARKS:

*2' sump in well*

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

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

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

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

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.027	SITE LOCATION: Dade City, FL
WELL NO: MW-9B	SAMPLE ID: MW-9B	DATE: 5/8/06

## PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 41.30	PURGE PUMP TYPE OR BAILER: ESP
-----------------------------------	-------------------------------------	---	-------------------------------------	-----------------------------------

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

$$= (50.00' \text{ feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$$

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

$$\text{Equipment Vol.} = .01 \text{ gallons} + (.006 \text{ gallons/foot} \times 50' \text{ feet}) + .25 \text{ gallons} = .56 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45' FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45' PURGING INITIATED AT: 1334 PURGING ENDED AT: 1355 TOTAL VOLUME PURGED (gallons): 8.76

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1351	8.12	8.12	.16	41.54	7.82	24.8	.210	5.09	4.82	Clear	None
1353	.33	8.44	.16	41.54	7.81	25.0	.209	5.10	3.17	Cloudy	None
1355	.32	8.76	.16	41.54	7.81	25.2	.209	5.11	2.05	Cloudy	None
									62.1%	No shear	

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1357	SAMPLING ENDED AT: 1404					
PUMP OR TUBING DEPTH IN WELL (feet): ~45'	SAMPLE PUMP FLOW RATE (ml. per minute): <100 mL	VOC's	TUBING MATERIAL CODE: PE					
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N	FIELD-FILTERED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FILTER SIZE: _____ μm Filtration Equipment Used	DUPPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-9B	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP
"	1	PE	250 mL	H2SO4	NONE	---	Ammonia	ESP
"	1	PE	250 mL	HNO3	NONE	---	Sb, Ti	ESP
"	1	PE	250 mL	HNO3	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP

## REMARKS:

1334: Inserted new 3/8" PE tubing and ESP to ~45' Btoc and began purging @ 12:30pm.

1338: WL 41.50' @ 2:30pm, GW is extremely turbid (milky white).

1341: GW is still extremely turbid, increased flow rate to 1.8 gpm to help clear up turbidity. Will purge until clear.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes  
2) Packed samples on ice immediately upon collection 1349. Slowed flow rate to ~1.6 gpm.

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

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

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

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

## **GROUNDWATER SAMPLING LOG**

SITE NAME: Enterprise Road Landfill			99.0331.029		SITE LOCATION: Dade City, FL						
WELL NO: MW-10		SAMPLE ID: MW-10			DATE: 5/18/06						
<b>PURGING DATA</b>											
WELL 2" PVC DIAMETER (inches):	TUBING .5" PE DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP						
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( 37.70' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= 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. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<i>Well is dry</i>											

#### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Claytor, Tt/HAI, Inc.</b>				SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute):	VOC's <100 mL	TUBING MATERIAL CODE: PE			
FIELD DECONTAMINATION: Y N				FIELD-FILTERED: Y N	FILTER SIZE: _____ μm Filtration Equipment Type:	DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-10	1	PE	500 mL	None	NONE	---	Bicarb, Chloride, Nitrate Nitrite, TDS	ESP	
"	3	CG	40 mL	HCl	NONE	---	8260 - App I Low	ESP	
"	2	CG	40 mL	None	NONE	---	8011 (EDB/DBCP)	ESP	
"	1	PE	250 mL	H <sub>2</sub> SO <sub>4</sub>	NONE	---	Ammonia	ESP	
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	---	Sb, Ti	ESP	
"	1	PE	250 mL	HNO <sub>3</sub>	NONE	---	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	ESP	

**REMARKS:**

Well is dry. 2' sump in well

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

**MATERIAL CODES:** AG = Amber Glass; CG = Clear

**MATERIALS USED:** AG - Amber Glass, CG - Clear Glass, PE - Polyethylene, PP - Polypropylene, S - Silicone, T - Teflon, O - Other (Specify)

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

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

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

## **GROUNDWATER SAMPLING LOG**

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: MW-10B	SAMPLE ID: MW-10B	DATE: 5/8/06

## PURGING DATA

<b>WELL 2" PVC</b> DIAMETER (inches):	<b>TUBING .5" PE</b> DIAMETER (inches):	<b>WELL SCREEN INTERVAL</b> <b>DEPTH:</b> feet to      feet	<b>STATIC DEPTH</b> <i>41.57</i> <b>TO WATER (feet):</b>	<b>PURGE PUMP TYPE</b> <b>OR BAILER:</b> <b>ESP</b>
--	--	--	---	--

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

$$= ( \quad \mathbf{62.07'} \quad \text{feet} - \quad \text{feet}) \quad X \quad \text{gallons/foot} = \quad \text{gallons}$$

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

EquipVol = .01 gallons + (.006 gallons/foot X 65 feet) + .125 gallons = .65 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~59 FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~59 PURGING INITIATED AT: 1217 PURGING ENDED AT: 1230 TOTAL VOLUME PURGED (gallons): 2.08

**WELL CAPACITY** (Gallons Per Foot):  $0.75'' = 0.02$ ;  $1'' = 0.04$ ;  $1.25'' = 0.06$ ;  $2'' = 0.16$ ;  $3'' = 0.37$ ;  $4'' = 0.65$ ;  $5'' = 1.02$ ;  $6'' = 1.47$ ;  $12'' = 5.88$

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

## **SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Clayton, TtHAI, Inc.</b>			SAMPLER(S) SIGNATURES: 			SAMPLING INITIATED AT: <b>1235</b>	SAMPLING ENDED AT: <b>1245</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>~59.</b>			SAMPLE PUMP FLOW RATE (mL per minute): <b>VOC's</b> <b>&lt;100 mL</b>	TUBING MATERIAL CODE: <b>PE</b>				
FIELD DECONTAMINATION: <b>Y</b> N			FIELD-FILTERED: <b>Y</b> N Filtration Equipment Type:	FILTER SIZE: <b>_____ μm</b>	DUPPLICATE: <b>Y</b> <b>N</b>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
<b>MW-10B</b>	<b>1</b>	<b>PE</b>	<b>500 mL</b>	<b>None</b>	<b>NONE</b>	<b>---</b>	<b>Bicarb, Chloride, Nitrate Nitrite, TDS</b>	<b>ESP</b>
"	<b>3</b>	<b>CG</b>	<b>40 mL</b>	<b>HCl</b>	<b>NONE</b>	<b>---</b>	<b>8260 - App I Low</b>	<b>ESP</b>
"	<b>2</b>	<b>CG</b>	<b>40 mL</b>	<b>None</b>	<b>NONE</b>	<b>---</b>	<b>8011 (EDB/DBCP)</b>	<b>ESP</b>
"	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>H2SO4</b>	<b>NONE</b>	<b>---</b>	<b>Ammonia</b>	<b>ESP</b>
"	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO3</b>	<b>NONE</b>	<b>---</b>	<b>Sb, Ti</b>	<b>ESP</b>
"	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO3</b>	<b>NONE</b>	<b>---</b>	<b>Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na</b>	<b>ESP</b>
REMARKS:								

**REMARKS:**

1217: Inserted new 3/8" PE tubing and ESP to a 59' depth and began purging @ 116 gpm.

1223: WL 4159' @ 165pm, GW is clear

1225: WL 41.59' @ 169pm, drawdown has stabilized.

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

**2) Packed samples on ice immediately upon collection**

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

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

**EQUIPMENT CODES:** APP = Anterior Posterior; B = Ballof; BP = Bladder Pump; ECG = Electrocardiogram; F = Forceps; G = Gauze; H = Hemostat; I = Irrigation; L = Latex; M = Mask; O = Other (Specify) P = Penlight; S = Scalpel; T = Tongue Depressor; V = Vacuum Trap; VT = Vacuum Trap; W = Wound Dressing

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

## GROUNDWATER SAMPLING LOG

SITE NAME: Enterprise Road Landfill	99.0331.029	SITE LOCATION: Dade City, FL
WELL NO: Supply Well	SAMPLE ID: Supply Well	DATE: 5/8/06

## PURGING DATA

WELL 4" SS DIAMETER (inches):	TUBING NA DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Spigot
----------------------------------	---------------------------------	---	----------------------------------	--------------------------------------

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

$$NA = (62.07' \text{ feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$$

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

$$NA = \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: ~	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 21.2
NA	NA	~	~	
1610	20.4	~	~	
1614	20.8	~	~	
1616	21.2	~	~	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1610	0.4	20.4	.2	~	8.15	24.2	181	4.55	0.4	Clear	None
1614	20.8	20.8	.2	~	8.13	24.2	181	4.54	0.8	Clear	None
1616	21.2	21.2	.2	~	8.12	24.2	181	4.53	0.4	Clear	None
								54.09		No shear	

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

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Tt/HAI, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1610	SAMPLING ENDED AT: 1622
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): <100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	FILTER SIZE: <u>  </u> μm Filtration Equipment Type	DUPPLICATE: Y N

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

## REMARKS:

1610: Purged ~ 20 gallons from liner in between well head and storage tank. Slowed flow to ~ .2 gpm.

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

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

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

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

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

## **GROUNDWATER SAMPLING LOG**

## **SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>H. L. Clayton, Tt/HAI, Inc.</b>			SAMPLER(S) SIGNATURES: <i>H. L. Clayton</i>			SAMPLING INITIATED AT: <b>0915 08/07</b>	SAMPLING ENDED AT: <b>0924</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>N/A</b>			SAMPLE PUMP FLOW RATE (mL per minute): <b>&lt;100 mL</b>	VOC's <b>&lt;100 mL</b>	TUBING MATERIAL CODE: <b>PE</b>			
FIELD DECONTAMINATION: <b>Y N</b>			FIELD-FILTERED: <b>Y</b> <i>Filtration Equipment Type:</i>	FILTER SIZE: <b>μm</b>	DUPPLICATE: <b>Y N</b>			
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
EQB	1	PE	500 mL	None	NONE	--	Bicarb, Chloride, Nitrate Nitrite, TDS	PP
"	3	CG	40 mL	HCl	NONE	--	8260 - App I Low	RFPP
"	2	CG	40 mL	None	NONE	--	8011 (EDB/DBCP)	RFPP
"	1	PE	250 mL	H2SO4	NONE	--	Ammonia	PP
"	1	PE	250 mL	HNO3	NONE	--	Sb, Ti	PP
"	1	PE	250 mL	HNO3	NONE	--	Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na	PP

**REMARKS.**

Field decontaminated 5 gallon PE bucket and filled with 1 gallon DI water. Field decontaminated ESD and WL probe and inserted in DI Water. Ran ~~empty~~ DI water through pump and over WL probe for ~1 minute and collected samples.

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

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

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

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

# FIELD SAMPLE DATA RECORD

Date: 5/11/06 Time: 1303 Project No. 99-0331-029

Sample/Station ID No. Pond 1 Sampled by: Dale Claytor

Sample Matrix:  Groundwater  Surface Water  Soil  
 Sediment  Drum  Sludge  
 Grab  Composite

Weather Conditions: Cloudy, breezy, drizzling rain

Appearance of Sample: Clear Odor: None

Well Depth: — ft Water Level: — ft. above/below land surface/top of casing  
circle      circle

Purging Method: — Time and/or amount: —

Sampling Method: Intermediate container

Sample Containers: Methods: BOD, Chlorophyll A, TOC, Fe, Hg, Cu, Na, Zn, Alk, Bicarb, TDS, TSS, Nitrate, Nitrite, TP, TN, COD, Phos, E. coli's

Type	Volume	Quality	Preservation
<u>Various</u>	<u>Various</u>	<u>Excellent</u>	<u>Various</u>

Volume Pumped Gallons	Temperature °C	Conductivity μmhos/cm	pH	Remarks
<u>—</u>	<u>26.4</u>	<u>1178</u>	<u>7.30'</u>	<u>Sample taken from ~6' below surface @ SW corner of Pond 1</u>

# FIELD SAMPLE DATA RECORD

Date: 5/11/06 Time: 1251 Project No. 99.0331.029

Sample/Station ID No. Temp Pond Sampled by: Dale Clayton

Sample Matrix:  Groundwater  Surface Water  Soil  
 Sediment  Drum  Sludge  
 Grab  Composite

Weather Conditions: Cloudy, breezy

Appearance of Sample: Cloudy greenish yellow Odor: None

Well Depth: — ft Water Level: — ft. above/below land surface/top of casing  
 circle circle

Purging Method: — Time and/or amount: —

Sampling Method: Intermediate container

Sample Containers: Methode: Nitrate Nitrite, COD

Type	Volume	Quality	Preservation
PE	250 ml	Excellent	H2SO4
PE	250 ml	Excellent	None

Volume Pumped Gallons	Temperature °C	Conductivity µmhos/cm <del>mmhos/cm</del> 105.6	pH	Remarks
NA	26.4	1078 112	7.19	Sample taken from ~ 6" below surface @ SE corner of Temp Pond

NOTE: LAS REPORT FOR INITIAC  
SAMPLING EVENT CONDUCTED  
@ MW-36/MW-4B ON 3/15/04  
WAS REMOVED FROM THIS  
REPORT; DUPLICATE OF  
DATA REPORT RECD  
UNDER SEPARATE COVER  
ON 4/7/04

## APPENDIX B

Thursday, May 18, 2006

Hartman & Assoc., Inc. (HA005)

MAY 22 2006

Attn: Miguel Garcia  
201 E. Pine St. Suite 1000  
Orlando, FL 32801

**RE: Project Number: 99.0331.029, Project Name/Desc: Enterprise Road Landfill  
ENCO Workorder: A601814**

Dear Miguel Garcia,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, May 9, 2006.

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

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

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

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

Sincerely,



Ronald Wambles  
Project Manager

Enclosure(s)

### SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1B

Lab ID: A601814-01

Sampled: 05/08/06 11:08

Received: 05/09/06 15:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/15/06	05/10/06 19:10	5/11/2006 17:12
EPA 300	05/10/06 11:08	05/09/06 16:08	5/9/2006 23:40
EPA 300.0	05/10/06 11:08	05/09/06 16:08	5/9/2006 23:40
EPA 300.0	06/05/06	05/09/06 16:08	5/9/2006 23:40
EPA 310.2	05/22/06	05/10/06 15:56	5/11/2006 00:12
EPA 350.1	06/05/06	05/12/06 13:16	5/15/2006 09:33
EPA 6020	11/04/06	05/10/06 11:15	5/10/2006 20:10
EPA 6020	11/04/06	05/10/06 11:15	5/11/2006 18:12
EPA 6020	11/04/06	05/10/06 11:15	5/12/2006 18:58
EPA 7470A	06/05/06	05/10/06 17:01	5/12/2006 09:00
EPA 8011	05/22/06	05/16/06 00:00	5/16/2006 22:05
EPA 8260B	05/22/06	05/10/06 00:00	5/10/2006 15:17
SM 4500	05/22/06	05/10/06 15:56	5/11/2006 00:12

Client ID: MW-8B

Lab ID: A601814-02

Sampled: 05/08/06 15:07

Received: 05/09/06 15:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/15/06	05/10/06 19:10	5/11/2006 17:12
EPA 300	05/10/06 15:07	05/09/06 16:08	5/10/2006 00:00
EPA 300.0	05/10/06 15:07	05/09/06 16:08	5/10/2006 00:00
EPA 300.0	06/05/06	05/09/06 16:08	5/10/2006 00:00
EPA 310.2	05/22/06	05/10/06 15:56	5/11/2006 00:16
EPA 350.1	06/05/06	05/12/06 13:16	5/15/2006 09:38
EPA 6020	11/04/06	05/10/06 11:15	5/10/2006 20:16
EPA 6020	11/04/06	05/10/06 11:15	5/11/2006 18:18
EPA 6020	11/04/06	05/10/06 11:15	5/12/2006 19:03
EPA 7470A	06/05/06	05/10/06 17:01	5/12/2006 09:00
EPA 8011	05/22/06	05/16/06 00:00	5/16/2006 22:16
EPA 8260B	05/22/06	05/10/06 00:00	5/10/2006 17:12
SM 4500	05/22/06	05/10/06 15:56	5/11/2006 00:16

**Client ID:** MW-9B

**Lab ID:** A601814-03

**Sampled:** 05/08/06 14:04

**Received:** 05/09/06 15:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/15/06	05/10/06 19:10	5/11/2006 17:12
EPA 300	05/10/06 14:04	05/09/06 16:08	5/10/2006 00:19
EPA 300.0	05/10/06 14:04	05/09/06 16:08	5/10/2006 00:19
EPA 300.0	06/05/06	05/09/06 16:08	5/10/2006 00:19
EPA 310.2	05/22/06	05/10/06 15:56	5/11/2006 00:17
EPA 350.1	06/05/06	05/12/06 13:16	5/15/2006 09:39
EPA 6020	11/04/06	05/10/06 11:15	5/10/2006 20:22
EPA 6020	11/04/06	05/10/06 11:15	5/11/2006 18:24
EPA 6020	11/04/06	05/10/06 11:15	5/12/2006 19:30
EPA 7470A	06/05/06	05/10/06 17:01	5/12/2006 09:00
EPA 8011	05/22/06	05/16/06 00:00	5/16/2006 22:26
EPA 8260B	05/22/06	05/10/06 00:00	5/10/2006 17:40
SM 4500	05/22/06	05/10/06 15:56	5/11/2006 00:17

**Client ID:** MW-10B

**Lab ID:** A601814-04

**Sampled:** 05/08/06 12:45

**Received:** 05/09/06 15:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/15/06	05/10/06 19:10	5/11/2006 17:12
EPA 300	05/10/06 12:45	05/09/06 16:08	5/10/2006 00:39
EPA 300.0	05/10/06 12:45	05/09/06 16:08	5/10/2006 00:39
EPA 300.0	06/05/06	05/09/06 16:08	5/10/2006 00:39
EPA 310.2	05/22/06	05/10/06 15:56	5/11/2006 00:18
EPA 350.1	06/05/06	05/12/06 13:16	5/15/2006 09:40
EPA 6020	11/04/06	05/10/06 11:15	5/10/2006 20:27
EPA 6020	11/04/06	05/10/06 11:15	5/11/2006 18:29
EPA 6020	11/04/06	05/10/06 11:15	5/12/2006 19:36
EPA 7470A	06/05/06	05/10/06 17:01	5/12/2006 09:00
EPA 8011	05/22/06	05/16/06 00:00	5/16/2006 22:37
EPA 8260B	05/22/06	05/10/06 00:00	5/10/2006 18:09
SM 4500	05/22/06	05/10/06 15:56	5/11/2006 00:18

**Client ID:** SUPPLY WELL

**Sampled:** 05/08/06 16:22

**Lab ID:** A601814-05

**Received:** 05/09/06 15:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/15/06	05/10/06 19:10	5/11/2006 17:12
EPA 300	05/10/06 16:22	05/09/06 16:08	5/10/2006 00:58
EPA 300.0	05/10/06 16:22	05/09/06 16:08	5/10/2006 00:58
EPA 300.0	06/05/06	05/09/06 16:08	5/10/2006 00:58
EPA 310.2	05/22/06	05/10/06 15:56	5/11/2006 00:19
EPA 350.1	06/05/06	05/12/06 13:16	5/15/2006 09:41
EPA 6020	11/04/06	05/10/06 11:15	5/10/2006 20:33
EPA 6020	11/04/06	05/10/06 11:15	5/11/2006 18:35
EPA 6020	11/04/06	05/10/06 11:15	5/12/2006 19:41
EPA 7470A	06/05/06	05/10/06 17:01	5/12/2006 09:00
EPA 8011	05/22/06	05/16/06 00:00	5/16/2006 22:48
EPA 8260B	05/22/06	05/10/06 00:00	5/10/2006 18:38
SM 4500	05/22/06	05/10/06 15:56	5/11/2006 00:19

**Client ID:** EQB

**Sampled:** 05/08/06 09:24

**Lab ID:** A601814-06

**Received:** 05/09/06 15:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/15/06	05/10/06 19:10	5/11/2006 17:12
EPA 300	05/10/06 09:24	05/09/06 16:08	5/9/2006 23:21
EPA 300.0	05/10/06 09:24	05/09/06 16:08	5/9/2006 23:21
EPA 300.0	06/05/06	05/09/06 16:08	5/9/2006 23:21
EPA 310.2	05/22/06	05/10/06 15:56	5/11/2006 00:22
EPA 350.1	06/05/06	05/12/06 13:16	5/15/2006 09:44
EPA 6020	11/04/06	05/10/06 11:15	5/10/2006 19:12
EPA 6020	11/04/06	05/10/06 11:15	5/11/2006 17:14
EPA 6020	11/04/06	05/10/06 11:15	5/12/2006 18:32
EPA 7470A	06/05/06	05/10/06 17:01	5/12/2006 09:00
EPA 8011	05/22/06	05/16/06 00:00	5/17/2006 00:47
EPA 8260B	05/22/06	05/10/06 00:00	5/10/2006 19:07
SM 4500	05/22/06	05/10/06 15:56	5/11/2006 00:22

### SAMPLE DETECTION SUMMARY

**Client ID: MW-1B**

Analyte

	Lab ID: A601814-01	Results/Qual	MRL	Units	Method
1,4-Dichlorobenzene		0.2 I	1	ug/L	EPA 8260B
Bicarbonate as CaCO3		96	10	mg/L	SM 4500
Chloride		8.68	1.00	mg/L	EPA 300.0
Cobalt		3 I	10	ug/L	EPA 6020
Iron		11 I	50	ug/L	EPA 6020
Nitrate as N		3.21	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		3.21	0.100	mg/L	EPA 300
Sodium		5710	500	ug/L	EPA 6020
Toluene		0.4 I	1	ug/L	EPA 8260B
Total Alkalinity		96	10	mg/L	EPA 310.2
Total Dissolved Solids		212	10	mg/L	EPA 160.1
Vanadium		18 I	100	ug/L	EPA 6020

**Client ID: MW-8B**

Analyte

	Lab ID: A601814-02	Results/Qual	MRL	Units	Method
Bicarbonate as CaCO3		186	10	mg/L	SM 4500
Chloride		5.23	1.00	mg/L	EPA 300.0
Iron		34 I	50	ug/L	EPA 6020
Nitrate as N		0.523	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		0.523	0.100	mg/L	EPA 300
Sodium		8780	500	ug/L	EPA 6020
Total Alkalinity		186	10	mg/L	EPA 310.2
Total Dissolved Solids		286	10	mg/L	EPA 160.1
Vanadium		16 I	100	ug/L	EPA 6020

**Client ID: MW-9B**

Analyte

	Lab ID: A601814-03	Results/Qual	MRL	Units	Method
Bicarbonate as CaCO3		126	10	mg/L	SM 4500
Chloride		6.45	1.00	mg/L	EPA 300.0
Chromium		3 I	10	ug/L	EPA 6020
Iron		25 I	50	ug/L	EPA 6020
Nitrate as N		1.61	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		1.61	0.100	mg/L	EPA 300
Sodium		5370	500	ug/L	EPA 6020
Total Alkalinity		126	10	mg/L	EPA 310.2
Total Dissolved Solids		254	10	mg/L	EPA 160.1
Vanadium		16 I	100	ug/L	EPA 6020

**Client ID: MW-10B**

Analyte

	Lab ID: A601814-04	Results/Qual	MRL	Units	Method
Ammonia as N		0.2	0.02	mg/L	EPA 350.1
Bicarbonate as CaCO3		83	10	mg/L	SM 4500
Chloride		5.76	1.00	mg/L	EPA 300.0

Iron	253	50	ug/L	EPA 6020
Nitrate as N	0.557	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N	0.557	0.100	mg/L	EPA 300
Sodium	5170	500	ug/L	EPA 6020
Toluene	0.2 I	1	ug/L	EPA 8260B
Total Alkalinity	83	10	mg/L	EPA 310.2
Total Dissolved Solids	174	10	mg/L	EPA 160.1
Vanadium	14 I	100	ug/L	EPA 6020

**Client ID: SUPPLY WELL****Analyte**

Bicarbonate as CaCO3	85	10	mg/L	SM 4500
Chloride	7.47	1.00	mg/L	EPA 300.0
Iron	5 I	50	ug/L	EPA 6020
Nitrate as N	2.94	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N	2.94	0.100	mg/L	EPA 300
Sodium	4980	500	ug/L	EPA 6020
Total Alkalinity	85	10	mg/L	EPA 310.2
Total Dissolved Solids	202	10	mg/L	EPA 160.1
Vanadium	16 I	100	ug/L	EPA 6020

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

Antimony	30	20	ug/L	EPA 6020
Chloride	0.79 I	1.00	mg/L	EPA 300.0
Cobalt	2 I	10	ug/L	EPA 6020
Toluene	0.4 I	1	ug/L	EPA 8260B
Total Dissolved Solids	54	10	mg/L	EPA 160.1
Vanadium	14 I	100	ug/L	EPA 6020

## ANALYTICAL REPORT

Sample ID: MW-1B  
 Lab #: A601814-01  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/10/06 By: km  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E10026

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
<b>1,4-Dichlorobenzene</b>	<b>106-46-7</b>	<b>0.2 I</b>	<b>0.2</b>	<b>1</b>	<b>ug/L</b>
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

## ANALYTICAL REPORT

Sample ID: MW-1B  
 Lab #: A601814-01  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/10/06 By: km  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E10026

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
<b>Toluene</b>	<b>108-88-3</b>	<b>0.4 I</b>	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
<hr/>					
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
4-Bromofluorobenzene	460-00-4	32.7	50.0	65 %	60-135
Dibromofluoromethane	1868-53-7	64.5	50.0	129 %	52-149
Toluene-d8	2037-26-5	55.8	50.0	112 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-1B  
Lab #: A601814-01  
Prep. Method: EPA 504/8011  
Analyzed: 05/16/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.460	0.500	92 %	60-140

## ANALYTICAL REPORT

Sample ID: MW-1B  
 Lab #: A601814-01

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E10021

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony /	7440-36-0	1 U	1 ✓	20	ug/L
Arsenic /	7440-38-2	3 U	3 ✓	10	ug/L
Barium /	7440-39-3	1 U	1 ✓	50	ug/L
Beryllium /	7440-41-7	2 U	2 ✓	2	ug/L
Cadmium /	7440-43-9	1 U	1 ✓	1	ug/L
Chromium /	7440-47-3	2 U	2 ✓	10	ug/L
Cobalt /	7440-48-4	3 I	2 ✓	10	ug/L
Copper /	7440-50-8	2 U	2 ✓	10	ug/L
Iron /	7439-89-6	11 I	4 ✓	50	ug/L
Lead /	7439-92-1	3 U	3 ✓	10	ug/L
Nickel /	7440-02-0	2 U	2 ✓	50	ug/L
Selenium /	7782-49-2	4 U	4 ✓	10	ug/L
Silver /	7440-22-4	0.1 U	0.1 ✓	10	ug/L
Sodium /	7440-23-5	5710	19 ✓	500	ug/L
Thallium /	7440-28-0	2 U	2 ✓	10	ug/L
Vanadium /	7440-62-2	18 I	2 ✓	100	ug/L
Zinc /	7440-66-6	10 U	10 ✓	20	ug/L

## ANALYTICAL REPORT

Sample ID: MW-1B  
Lab #: A601814-01

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E12010
Bicarbonate as CaCO <sub>3</sub>		96	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	8.68	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate as N	NA	3.21	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate/Nitrite as N		3.21	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Total Alkalinity	NA	96	4	10	mg/L	EPA 310.2	NO PREP	6E10025
Total Dissolved Solids	NA	212	10	10	mg/L	EPA 160.1	NO PREP	6E10010

**ANALYTICAL REPORT**

Sample ID: MW-8B  
Lab #: A601814-02  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/10/06 By: km  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E10026

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

## ANALYTICAL REPORT

Sample ID: MW-8B  
 Lab #: A601814-02  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/10/06 By: km  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E10026

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	37.0	50.0	74 %	60-135
Dibromofluoromethane	1868-53-7	80.8	S-GC	162 %	52-149
Toluene-d8	2037-26-5	65.7	50.0	131 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-8B  
Lab #: A601814-02  
Prep. Method: EPA 504/8011  
Analyzed: 05/16/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.453	0.500	91 %	60-140

## ANALYTICAL REPORT

Sample ID: MW-8B  
Lab #: A601814-02

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E10021

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	1 U	1	20	ug/L
Arsenic	7440-38-2	3 U	3	10	ug/L
Barium	7440-39-3	1 U	1	50	ug/L
Beryllium	7440-41-7	2 U	2	2	ug/L
Cadmium	7440-43-9	1 U	1	1	ug/L
Chromium	7440-47-3	2 U	2	10	ug/L
Cobalt	7440-48-4	2 U	2	10	ug/L
Copper	7440-50-8	2 U	2	10	ug/L
Iron	7439-89-6	34 I	4	50	ug/L
Lead	7439-92-1	3 U	3	10	ug/L
Nickel	7440-02-0	2 U	2	50	ug/L
Selenium	7782-49-2	4 U	4	10	ug/L
Silver	7440-22-4	0.1 U	0.1	10	ug/L
Sodium	7440-23-5	8780	19	500	ug/L
Thallium	7440-28-0	2 U	2	10	ug/L
Vanadium	7440-62-2	16 I	2	100	ug/L
Zinc	7440-66-6	10 U	10	20	ug/L

## ANALYTICAL REPORT

Sample ID: MW-8B  
Lab #: A601814-02

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E12010
Bicarbonate as CaCO <sub>3</sub>		186	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	5.23	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate as N	NA	0.523	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate/Nitrite as N		0.523	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Total Alkalinity	NA	186	4	10	mg/L	EPA 310.2	NO PREP	6E10025
Total Dissolved Solids	NA	286	10	10	mg/L	EPA 160.1	NO PREP	6E10010

ANALYTICAL REPORT

Sample ID: MW-9B  
Lab #: A601814-03  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/10/06 By: km  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E10026

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

## Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

## ANALYTICAL REPORT

Sample ID:	MW-9B	Project:	Enterprise Road Landfill
Lab #:	A601814-03	Work Order #:	A601814
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	05/10/06 By: km	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6E10026		

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
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Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38.2	50.0	76 %	60-135
Dibromofluoromethane	1868-53-7	81.4 S-GC	50.0	163 %	52-149
Toluene-d8	2037-26-5	64.2	50.0	128 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-9B  
Lab #: A601814-03  
Prep. Method: EPA 504/8011  
Analyzed: 05/16/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.480	0.500	96 %	60-140

**ANALYTICAL REPORT**

Sample ID: MW-9B  
Lab #: A601814-03

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E10021

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	1 U	1	20	ug/L
Arsenic	7440-38-2	3 U	3	10	ug/L
Barium	7440-39-3	1 U	1	50	ug/L
Beryllium	7440-41-7	2 U	2	2	ug/L
Cadmium	7440-43-9	1 U	1	1	ug/L
Chromium	7440-47-3	3 I	2	10	ug/L
Cobalt	7440-48-4	2 U	2	10	ug/L
Copper	7440-50-8	2 U	2	10	ug/L
Iron	7439-89-6	25 I	4	50	ug/L
Lead	7439-92-1	3 U	3	10	ug/L
Nickel	7440-02-0	2 U	2	50	ug/L
Selenium	7782-49-2	4 U	4	10	ug/L
Silver	7440-22-4	0.1 U	0.1	10	ug/L
Sodium	7440-23-5	5370	19	500	ug/L
Thallium	7440-28-0	2 U	2	10	ug/L
Vanadium	7440-62-2	16 I	2	100	ug/L
Zinc	7440-66-6	10 U	10	20	ug/L

## ANALYTICAL REPORT

Sample ID: MW-9B  
 Lab #: A601814-03

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E12010
Bicarbonate as CaCO <sub>3</sub>		126	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	6.45	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate as N	NA	1.61	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate/Nitrite as N		1.61	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Total Alkalinity	NA	126	4	10	mg/L	EPA 310.2	NO PREP	6E10025
Total Dissolved Solids	NA	254	10	10	mg/L	EPA 160.1	NO PREP	6E10010

## ANALYTICAL REPORT

Sample ID: MW-10B  
 Lab #: A601814-04  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/10/06 By: km  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E10026

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

ANALYTICAL REPORT

Sample ID: MW-10B  
Lab #: A601814-04  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/10/06 By: km  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E10026

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
<b>Toluene</b>	108-88-3	<b>0.2 I</b>	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	40.1	50.0	80 %	60-135
Dibromofluoromethane	1868-53-7	83.8 S-GC	50.0	168 %	52-149
Toluene-d8	2037-26-5	64.2	50.0	128 %	70-132

## ANALYTICAL REPORT

Sample ID: MW-10B                      Project: Enterprise Road Landfill  
 Lab #: A601814-04                      Work Order #: A601814  
 Prep. Method: EPA 504/8011              Matrix: Ground Water  
 Analyzed: 05/16/06 By: RB              Unit: ug/L  
 Anal. Method: EPA 8011                  Dilution Factor: 1  
 Anal. Batch:  
 QC Batch: 6E16013

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### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.517	0.500	103 %	60-140

**ANALYTICAL REPORT**

Sample ID: MW-10B  
 Lab #: A601814-04

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E10021

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	1 U	1	20	ug/L
Arsenic	7440-38-2	3 U	3	10	ug/L
Barium	7440-39-3	1 U	1	50	ug/L
Beryllium	7440-41-7	2 U	2	2	ug/L
Cadmium	7440-43-9	1 U	1	1	ug/L
Chromium	7440-47-3	2 U	2	10	ug/L
Cobalt	7440-48-4	2 U	2	10	ug/L
Copper	7440-50-8	2 U	2	10	ug/L
Iron	7439-89-6	253	4	50	ug/L
Lead	7439-92-1	3 U	3	10	ug/L
Nickel	7440-02-0	2 U	2	50	ug/L
Selenium	7782-49-2	4 U	4	10	ug/L
Silver	7440-22-4	0.1 U	0.1	10	ug/L
Sodium	7440-23-5	5170	19	500	ug/L
Thallium	7440-28-0	2 U	2	10	ug/L
Vanadium	7440-62-2	14 I	2	100	ug/L
Zinc	7440-66-6	10 U	10	20	ug/L

ANALYTICAL REPORT

Sample ID: MW-10B  
Lab #: A601814-04

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

**Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.2	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E12010
Bicarbonate as CaCO <sub>3</sub>		83	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	5.76	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate as N	NA	0.557	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate/Nitrite as N		0.557	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Total Alkalinity	NA	83	4	10	mg/L	EPA 310.2	NO PREP	6E10025
Total Dissolved Solids	NA	174	10	10	mg/L	EPA 160.1	NO PREP	6E10010

**ANALYTICAL REPORT**

Sample ID: SUPPLY WELL  
Lab #: A601814-05  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/10/06 By: km  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E10026

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: SUPPLY WELL  
Lab #: A601814-05  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/10/06 By: km  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E10026

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	38.2	50.0	76 %	60-135
Dibromofluoromethane	1868-53-7	79.8	S-GC	160 %	52-149
Toluene-d8	2037-26-5	63.4	50.0	127 %	70-132

### ANALYTICAL REPORT

Sample ID: SUPPLY WELL  
 Lab #: A601814-05  
 Prep. Method: EPA 504/8011  
 Analyzed: 05/16/06 By: RB  
 Anal. Method: EPA 8011  
 Anal. Batch:  
 QC Batch: 6E16013

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

#### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.479	0.500	96 %	60-140

## ANALYTICAL REPORT

Sample ID: **SUPPLY WELL**  
 Lab #: **A601814-05**      Project: **Enterprise Road Landfill**  
 Matrix: **Ground Water**

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E10021

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	1 U	1	20	ug/L
Arsenic	7440-38-2	3 U	3	10	ug/L
Barium	7440-39-3	1 U	1	50	ug/L
Beryllium	7440-41-7	2 U	2	2	ug/L
Cadmium	7440-43-9	1 U	1	1	ug/L
Chromium	7440-47-3	2 U	2	10	ug/L
Cobalt	7440-48-4	2 U	2	10	ug/L
Copper	7440-50-8	2 U	2	10	ug/L
Iron	7439-89-6	5 I	4	50	ug/L
Lead	7439-92-1	3 U	3	10	ug/L
Nickel	7440-02-0	2 U	2	50	ug/L
Selenium	7782-49-2	4 U	4	10	ug/L
Silver	7440-22-4	0.1 U	0.1	10	ug/L
Sodium	7440-23-5	<b>4980</b>	19	500	ug/L
Thallium	7440-28-0	2 U	2	10	ug/L
Vanadium	7440-62-2	16 I	2	100	ug/L
Zinc	7440-66-6	10 U	10	20	ug/L

## ANALYTICAL REPORT

Sample ID: SUPPLY WELL  
Lab #: A601814-05

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E12010
Bicarbonate as CaCO <sub>3</sub>		85	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	7.47	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate as N	NA	2.94	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate/Nitrite as N		2.94	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Total Alkalinity	NA	85	4	10	mg/L	EPA 310.2	NO PREP	6E10025
Total Dissolved Solids	NA	202	10	10	mg/L	EPA 160.1	NO PREP	6E10010

## ANALYTICAL REPORT

Sample ID: EQB  
 Lab #: A601814-06  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/10/06 By: km  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E10026

Project: Enterprise Road Landfill  
 Work Order #: A601814  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: EQB  
Lab #: A601814-06  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/10/06 By: km  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E10026

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.4 I	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	37.6	50.0	75 %	60-135
Dibromofluoromethane	1868-53-7	80.4 S-GC	50.0	161 %	52-149
Toluene-d8	2037-26-5	64.9	50.0	130 %	70-132

## ANALYTICAL REPORT

Sample ID:	EQB	Project:	Enterprise Road Landfill
Lab #:	A601814-06	Work Order #:	A601814
Prep. Method:	EPA 504/8011	Matrix:	Ground Water
Analyzed:	05/17/06 By: RB	Unit:	ug/L
Anal. Method:	EPA 8011	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6E16013		

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### Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
<b>Surrogate Recovery</b>		<b>Result</b>	<b>Spike Level</b>	<b>% Recovery</b>	<b>% Recovery Limits</b>
1,3-Dichlorobenzene	541-73-1	0.425	0.500	85 %	60-140

## ANALYTICAL REPORT

Sample ID: EQB  
Lab #: A601814-06

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E10021

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	30	1	20	ug/L
Arsenic	7440-38-2	3 U	3	10	ug/L
Barium	7440-39-3	1 U	1	50	ug/L
Beryllium	7440-41-7	2 U	2	2	ug/L
Cadmium	7440-43-9	1 U	1	1	ug/L
Chromium	7440-47-3	2 U	2	10	ug/L
Cobalt	7440-48-4	2 I	2	10	ug/L
Copper	7440-50-8	2 U	2	10	ug/L
Iron	7439-89-6	4 U	4	50	ug/L
Lead	7439-92-1	3 U	3	10	ug/L
Nickel	7440-02-0	2 U	2	50	ug/L
Selenium	7782-49-2	4 U	4	10	ug/L
Silver	7440-22-4	0.1 U	0.1	10	ug/L
Sodium	7440-23-5	19 U	19	500	ug/L
Thallium	7440-28-0	2 U	2	10	ug/L
Vanadium	7440-62-2	14 I	2	100	ug/L
Zinc	7440-66-6	10 U	10	20	ug/L

## ANALYTICAL REPORT

Sample ID: EQB  
Lab #: A601814-06

Project: Enterprise Road Landfill  
Work Order #: A601814  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E12010
Bicarbonate as CaCO <sub>3</sub>		4 U	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	0.79 I	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate as N	NA	0.008 U	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Nitrate/Nitrite as N		0.015 U	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E09019
Total Alkalinity	NA	4 U	4	10	mg/L	EPA 310.2	NO PREP	6E10025
Total Dissolved Solids	NA	54	10	10	mg/L	EPA 160.1	NO PREP	6E10010

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Volatile Organic Compounds by GCMS - Quality Control**
*Batch 6E10026 - EPA 5030B\_MS*

Prepared: 05/10/2006 00:00 Analyzed: 05/10/2006 13:51

**Blank (6E10026-BLK1)**

1,1,1,2-Tetrachloroethane	0.2 U	1	ug/L
1,1,1-Trichloroethane	0.2 U	1	ug/L
1,1,2,2-Tetrachloroethane	0.2 U	0.2	ug/L
1,1,2-Trichloroethane	0.4 U	1	ug/L
1,1-Dichloroethane	0.3 U	1	ug/L
1,1-Dichloroethene	0.8 U	1	ug/L
1,2,3-Trichloropropane	0.3 U	1	ug/L
1,2-Dichlorobenzene	0.3 U	1	ug/L
1,2-Dichloroethane	0.3 U	1	ug/L
1,2-Dichloropropane	0.2 U	1	ug/L
1,4-Dichlorobenzene	0.2 U	1	ug/L
2-Butanone	1 U	5	ug/L
2-Hexanone	2 U	5	ug/L
4-Methyl-2-pentanone	2 U	5	ug/L
Acetone	3 U	5	ug/L
Acrylonitrile	2 U	2	ug/L
Benzene	0.1 U	1	ug/L
Bromochloromethane	0.9 U	1	ug/L
Bromodichloromethane	0.2 U	0.4	ug/L
Bromoform	0.5 U	1	ug/L
Bromomethane	1 U	1	ug/L
Carbon disulfide	0.4 U	5	ug/L
Carbon tetrachloride	0.2 U	1	ug/L
Chlorobenzene	0.1 U	1	ug/L
Chloroethane	0.5 U	1	ug/L
Chloroform	0.2 U	1	ug/L
Chloromethane	0.6 U	1	ug/L
cis-1,2-Dichloroethene	0.3 U	1	ug/L
cis-1,3-Dichloropropene	0.1 U	0.2	ug/L
Dibromochloromethane	0.2 U	0.2	ug/L
Dibromomethane	0.4 U	1	ug/L
Ethylbenzene	0.3 U	1	ug/L
Iodomethane	1 U	3	ug/L
m,p-Xylenes	0.3 U	2	ug/L
Methylene chloride	1 U	2	ug/L
o-Xylene	0.6 U	1	ug/L
Styrene	0.2 U	1	ug/L
Tetrachloroethene	0.6 U	1	ug/L
Toluene	0.2 U	1	ug/L
trans-1,2-Dichloroethene	0.8 U	1	ug/L
trans-1,3-Dichloropropene	0.2 U	0.2	ug/L
trans-1,4-Dichloro-2-butene	0.5 U	1	ug/L
Trichloroethene	0.3 U	1	ug/L
Trichlorofluoromethane	0.7 U	1	ug/L
Vinyl acetate	0.2 U	1	ug/L

QUALITY CONTROL

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

Batch 6E10026 - EPA 5030B\_MS

**Blank (6E10026-BLK1) Continued**

Prepared: 05/10/2006 00:00 Analyzed: 05/10/2006 13:51

Vinyl chloride	0.5 U	1	ug/L							
Surrogate: Toluene-d8	60.6		ug/L	50.0		121	70-132			
Surrogate: 4-Bromofluorobenzene	39.7		ug/L	50.0		79	60-135			
Surrogate: Dibromofluoromethane	73.5		ug/L	50.0		147	52-149			
<b>LCS (6E10026-BS1)</b>										
1,1-Dichloroethene	22.8	1	ug/L	20.0		114	49-156			
Benzene	23.1	1	ug/L	20.0		116	64-132			
Chlorobenzene	20.2	1	ug/L	20.0		101	68-135			
Toluene	21.0	1	ug/L	20.0		105	58-132			
Trichloroethene	25.6	1	ug/L	20.0		128	66-130			
Surrogate: Toluene-d8	57.5		ug/L	50.0		115	70-132			
Surrogate: 4-Bromofluorobenzene	35.2		ug/L	50.0		70	60-135			
Surrogate: Dibromofluoromethane	72.2		ug/L	50.0		144	52-149			

<b>Matrix Spike (6E10026-MS1)</b>	Source: A601814-01									
1,1-Dichloroethene	22.6	1	ug/L	20.0	0.8 U	113	36-185			
Benzene	24.8	1	ug/L	20.0	0.1 U	124	65-143			
Chlorobenzene	19.3	1	ug/L	20.0	0.1 U	96	64-140			
Toluene	18.5	1	ug/L	20.0	0.410	90	62-144			
Trichloroethene	24.3	1	ug/L	20.0	0.3 U	122	51-152			

Surrogate: Toluene-d8	61.7		ug/L	50.0		123	70-132			
Surrogate: 4-Bromofluorobenzene	33.5		ug/L	50.0		67	60-135			
Surrogate: Dibromofluoromethane	70.1		ug/L	50.0		140	52-149			

<b>Matrix Spike Dup (6E10026-MSD1)</b>	Source: A601814-01									
1,1-Dichloroethene	23.9	1	ug/L	20.0	0.8 U	120	36-185	6	34	
Benzene	22.3	1	ug/L	20.0	0.1 U	112	65-143	11	25	
Chlorobenzene	17.8	1	ug/L	20.0	0.1 U	89	64-140	8	23	
Toluene	20.0	1	ug/L	20.0	0.410	98	62-144	8	24	
Trichloroethene	20.8	1	ug/L	20.0	0.3 U	104	51-152	16	28	
Surrogate: Toluene-d8	56.3		ug/L	50.0		113	70-132			
Surrogate: 4-Bromofluorobenzene	35.5		ug/L	50.0		71	60-135			
Surrogate: Dibromofluoromethane	75.2		ug/L	50.0		150	52-149			S-GC

**Semivolatile Organic Compounds by GC - Quality Control**

Batch 6E16013 - EPA 504/8011

<b>Blank (6E16013-BLK1)</b>										

Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:09

1,2-Dibromoethane	0.01 U	0.02	ug/L							
1,2-Dibromo-3-chloropropane	0.009 U	0.02	ug/L							

<b>LCS (6E16013-BS1)</b>										

Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:32

1,2-Dibromoethane	0.230	0.02	ug/L	0.250		92	60-140			
1,2-Dibromo-3-chloropropane	0.314	0.02	ug/L	0.250		126	60-140			

<b>Matrix Spike (6E16013-MS1)</b>	Source: A601814-01									

Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:43

1,2-Dibromoethane	0.233	0.02	ug/L	0.250	0.01 U	93	65-135			

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Semivolatile Organic Compounds by GC - Quality Control**
*Batch 6E16013 - EPA 504/8011*

Matrix Spike (6E16013-MS1) Continued	Source: A601814-01	Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:43
1,2-Dibromo-3-chloropropane	0.304	0.02 ug/L 0.250 0.009 U 122 65-135
Matrix Spike Dup (6E16013-MSD1)	Source: A601814-01	Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:54
1,2-Dibromoethane	0.219	0.02 ug/L 0.250 0.01 U 88 65-135 6 18
1,2-Dibromo-3-chloropropane	0.289	0.02 ug/L 0.250 0.009 U 116 65-135 5 20

**Metals by EPA 6000/7000 Series Methods - Quality Control**
*Batch 6E10005 - EPA 3005A*

Blank (6E10005-BLK1)	Prepared: 05/10/2006 11:15 Analyzed: 05/11/2006 16:52
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Antimony	0.1 U, D	2	ug/L	D
Arsenic	0.3 U, D	1	ug/L	D
Barium	0.1 U, D	5	ug/L	D
Beryllium	0.2 U, D	0.2	ug/L	D
Cadmium	0.1 U, D	0.1	ug/L	D
Chromium	0.2 U, D	1	ug/L	D
Cobalt	0.2 U, D	1	ug/L	D
Copper	0.2 U, D	1	ug/L	D
Iron	0.4 U, D	5	ug/L	D
Lead	0.3 U, D	1	ug/L	D
Nickel	0.2 U, D	5	ug/L	D
Selenium	0.4 U, D	1	ug/L	D
Silver	0.01 U, D	1	ug/L	D
Sodium	2 U, D	50	ug/L	D
Thallium	0.2 U, D	1	ug/L	D
Vanadium	1.40 I, D	10	ug/L	D
Zinc	1 U, D	2	ug/L	D

Blank (6E10005-BLK2)	Prepared: 05/11/2006 10:50 Analyzed: 05/11/2006 19:02
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Antimony	0.1 U, D	2	ug/L	D
Arsenic	0.3 U, D	1	ug/L	D
Barium	0.1 U, D	5	ug/L	D
Beryllium	0.2 U, D	0.2	ug/L	D
Cadmium	0.1 U, D	0.1	ug/L	D
Chromium	0.2 U, D	1	ug/L	D
Cobalt	0.2 U, D	1	ug/L	D
Copper	0.2 U, D	1	ug/L	D
Iron	0.4 U, D	5	ug/L	D
Lead	0.3 U, D	1	ug/L	D
Nickel	0.2 U, D	5	ug/L	D
Selenium	0.4 U, D	1	ug/L	D
Silver	0.284 I, D	1	ug/L	D
Sodium	2 U, D	50	ug/L	D
Thallium	0.2 U, D	1	ug/L	D
Vanadium	1.21 I, D	10	ug/L	D
Zinc	1 U, D	2	ug/L	D

LCS (6E10005-BS1)	Prepared: 05/10/2006 11:15 Analyzed: 05/11/2006 17:04
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## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**
*Batch 6E10005 - EPA 3005A*
**LCS (6E10005-BS1) Continued**

					Prepared: 05/10/2006 11:15	Analyzed: 05/11/2006 17:04	
Antimony	494 D	2	ug/L	500	99	85-115	D
Arsenic	486 D	1	ug/L	500	97	85-115	D
Barium	496 D	5	ug/L	500	99	85-115	D
Beryllium	490 D	0.2	ug/L	500	98	85-115	D
Cadmium	486 D	0.1	ug/L	500	97	85-115	D
Chromium	495 D	1	ug/L	500	99	85-115	D
Cobalt	491 D	1	ug/L	500	98	85-115	D
Copper	513 D	1	ug/L	500	103	85-115	D
Iron	488 D	5	ug/L	500	98	85-115	D
Lead	494 D	1	ug/L	500	99	85-115	D
Nickel	513 D	5	ug/L	500	103	85-115	D
Selenium	481 D	1	ug/L	500	96	85-115	D
Silver	462 D	1	ug/L	500	92	85-115	D
Sodium	495 D	50	ug/L	500	99	85-115	D
Thallium	474 D	1	ug/L	500	95	85-115	D
Vanadium	460 D	10	ug/L	500	92	85-115	D
Zinc	495 D	2	ug/L	500	99	85-115	D

**LCS (6E10005-BS2)**

					Prepared: 05/11/2006 10:50	Analyzed: 05/11/2006 19:34	
Antimony	492 D	2	ug/L	500	98	85-115	D
Arsenic	496 D	1	ug/L	500	99	85-115	D
Barium	496 D	5	ug/L	500	99	85-115	D
Beryllium	478 D	0.2	ug/L	500	96	85-115	D
Cadmium	494 D	0.1	ug/L	500	99	85-115	D
Chromium	493 D	1	ug/L	500	99	85-115	D
Cobalt	479 D	1	ug/L	500	96	85-115	D
Copper	490 D	1	ug/L	500	98	85-115	D
Iron	500 D	5	ug/L	500	100	85-115	D
Lead	491 D	1	ug/L	500	98	85-115	D
Nickel	496 D	5	ug/L	500	99	85-115	D
Selenium	485 D	1	ug/L	500	97	85-115	D
Silver	459 D	1	ug/L	500	92	85-115	D
Sodium	534 D	50	ug/L	500	107	85-115	D
Thallium	484 D	1	ug/L	500	97	85-115	D
Vanadium	460 D	10	ug/L	500	92	85-115	D
Zinc	478 D	2	ug/L	500	96	85-115	D

**Matrix Spike (6E10005-MS1)**

			Source: A601814-06		Prepared: 05/10/2006 11:15	Analyzed: 05/11/2006 17:31	
Antimony	4920	20	ug/L	5000	30.4	98	70-130
Arsenic	4850	10	ug/L	5000	3 U	97	70-130
Barium	5020	50	ug/L	5000	1 U	100	70-130
Beryllium	5010	2	ug/L	5000	2 U	100	70-130
Cadmium	4790	1	ug/L	5000	1 U	96	70-130
Chromium	5000	10	ug/L	5000	2 U	100	70-130
Cobalt	4890	10	ug/L	5000	2 U	98	70-130
Copper	5130	10	ug/L	5000	2 U	103	70-130
Iron	4870	50	ug/L	5000	4 U	97	70-130

## QUALITY CONTROL

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

Batch 6E10005 - EPA 3005A

Matrix Spike (6E10005-MS1) Continued      Source: A601814-06      Prepared: 05/10/2006 11:15 Analyzed: 05/12/2006 18:37

Lead	4930	10	ug/L	5000	3 U	99	70-130
Nickel	5110	50	ug/L	5000	2 U	102	70-130
Selenium	4800	10	ug/L	5000	4 U	96	70-130
Silver	4670	10	ug/L	5000	0.1 U	93	70-130
Sodium	5400	500	ug/L	5000	19 U	108	70-130
Thallium	4860	10	ug/L	5000	2 U	97	70-130
Vanadium	4710	100	ug/L	5000	14.4	94	70-130
Zinc	4910	20	ug/L	5000	10 U	98	70-130

Matrix Spike Dup (6E10005-MSD1)      Source: A601814-06      Prepared: 05/10/2006 11:15 Analyzed: 05/11/2006 18:02

Antimony	4950	20	ug/L	5000	30.4	98	70-130	0.6	20
Arsenic	4910	10	ug/L	5000	3 U	98	70-130	1	20
Barium	4990	50	ug/L	5000	1 U	100	70-130	0.6	20
Beryllium	5000	2	ug/L	5000	2 U	100	70-130	0.2	20
Cadmium	4890	1	ug/L	5000	1 U	98	70-130	2	20
Chromium	5010	10	ug/L	5000	2 U	100	70-130	0.2	20
Cobalt	5010	10	ug/L	5000	2 U	100	70-130	2	20
Copper	5180	10	ug/L	5000	2 U	104	70-130	1	20
Iron	4940	50	ug/L	5000	4 U	99	70-130	1	20
Lead	4970	10	ug/L	5000	3 U	99	70-130	0.8	20
Nickel	5110	50	ug/L	5000	2 U	102	70-130	0	20
Selenium	4780	10	ug/L	5000	4 U	96	70-130	0.4	20
Silver	4710	10	ug/L	5000	0.1 U	94	70-130	0.9	20
Sodium	5140	500	ug/L	5000	19 U	103	70-130	5	20
Thallium	4890	10	ug/L	5000	2 U	98	70-130	0.6	20
Vanadium	4700	100	ug/L	5000	14.4	94	70-130	0.2	20
Zinc	4940	20	ug/L	5000	10 U	99	70-130	0.6	20

Post Spike (6E10005-PS1)      Source: A601814-06      Prepared: 05/10/2006 11:15 Analyzed: 05/11/2006 18:52

Antimony	0.492	0.002	mg/L	0.500	0.00304	98	75-125
Arsenic	0.488	0.001	mg/L	0.500	-0.00129	98	75-125
Barium	0.496	0.005	mg/L	0.500	-0.00318	100	75-125
Beryllium	0.499	0.0002	mg/L	0.500	-0.00125	100	75-125
Cadmium	0.487	0.0001	mg/L	0.500	-0.00182	98	75-125
Chromium	0.502	0.001	mg/L	0.500	-5.84E-5	100	75-125
Cobalt	0.478	0.001	mg/L	0.500	0.000179	96	75-125
Copper	0.507	0.001	mg/L	0.500	-0.00426	102	75-125
Iron	0.508	0.005	mg/L	0.500	-0.000325	102	75-125
Lead	0.492	0.001	mg/L	0.500	-0.00166	99	75-125
Nickel	0.506	0.005	mg/L	0.500	-0.00357	102	75-125
Selenium	0.480	0.001	mg/L	0.500	-0.00160	96	75-125
Silver	0.470	0.001	mg/L	0.500	-8.99E-5	94	75-125
Sodium	0.528	0.05	mg/L	0.500	-0.0507	116	75-125
Thallium	0.478	0.001	mg/L	0.500	-0.000547	96	75-125
Vanadium	0.467	0.01	mg/L	0.500	0.00144	93	75-125
Zinc	0.492	0.00200	mg/L	0.500	-0.00806	100	75-125

## QUALITY CONTROL

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

Batch 6E10005 - EPA 3005A

Post Spike (6E10005-PS2)		Source: A602279-03		Prepared: 05/10/2006 11:15 Analyzed: 05/11/2006 21:13						
Antimony	0.503	0.002	mg/L	0.500	-0.000410	101	75-125			
Arsenic	0.485	0.001	mg/L	0.500	-0.00235	97	75-125			
Barium	0.509	0.005	mg/L	0.500	-8.09E-5	102	75-125			
Beryllium	0.511	0.0002	mg/L	0.500	-0.00127	102	75-125			
Cadmium	0.493	0.0001	mg/L	0.500	-0.00213	99	75-125			
Chromium	0.469	0.001	mg/L	0.500	-0.00191	94	75-125			
Cobalt	0.486	0.001	mg/L	0.500	-2.18E-5	97	75-125			
Copper	0.486	0.001	mg/L	0.500	-0.00285	98	75-125			
Iron	0.500	0.005	mg/L	0.500	0.0246	95	75-125			
Lead	0.495	0.001	mg/L	0.500	-0.00165	99	75-125			
Nickel	0.486	0.005	mg/L	0.500	-0.00267	98	75-125			
Selenium	0.475	0.001	mg/L	0.500	-0.00132	95	75-125			
Silver	0.445	0.001	mg/L	0.500	0.000243	89	75-125			
Sodium	5.80	0.05	mg/L	0.500	6.26	NR	75-125			
Thallium	0.494	0.001	mg/L	0.500	-0.00149	99	75-125			
Vanadium	0.492	0.01	mg/L	0.500	0.00130	98	75-125			
Zinc	0.469	0.00200	mg/L	0.500	-0.00690	95	75-125			

Batch 6E10021 - EPA 7470A

Blank (6E10021-BLK1)		Prepared: 05/10/2006 17:01 Analyzed: 05/12/2006 09:00						
Mercury	0.11 U	0.20	ug/L					
<b>LCS (6E10021-BS1)</b>								
Mercury	4.95	0.20	ug/L	5.00		99	93-111	
<b>Matrix Spike (6E10021-MS1)</b>								
Mercury	5.29	0.20	ug/L	5.00	0.11 U	106	85-115	
<b>Matrix Spike Dup (6E10021-MSD1)</b>								
Mercury	5.28	0.20	ug/L	5.00	0.11 U	106	85-115	0.2
								12

### Classical Chemistry Parameters - Quality Control

Batch 6E09019 - Default Prep GenChem

Blank (6E09019-BLK1)		Prepared: 05/09/2006 16:08 Analyzed: 05/09/2006 23:01						
Nitrate as N	0.008 U	0.050	mg/L					
Nitrite as N	0.007 U	0.050	mg/L					
Chloride	0.794 I	1.00	mg/L					
<b>LCS (6E09019-BS1)</b>								
Nitrate as N	4.76	0.050	mg/L	5.00		95	90-110	
Nitrite as N	4.83	0.050	mg/L	5.00		97	90-110	
Chloride	257	1.00	mg/L	250		103	90-110	
<b>Matrix Spike (6E09019-MS1)</b>								
Nitrate as N	4.59	0.050	mg/L	5.10	0.008 U	90	40-152	
Nitrite as N	3.99	0.050	mg/L	5.10	0.007 U	78	48-161	
Chloride	256	1.00	mg/L	255	0.696	100	51-149	
<b>Matrix Spike Dup (6E09019-MSD1)</b>								
Nitrate as N	4.54	0.050	mg/L	5.10	0.008 U	89	40-152	1
								23



**NOTES AND DEFINITIONS**

- U Analyte included in the analysis, but not detected
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- I Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- D Data reported from a dilution

**Environmental Conservation Laboratories, Inc.**

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



[www.encolabs.com](http://www.encolabs.com)

Thursday, May 25, 2006

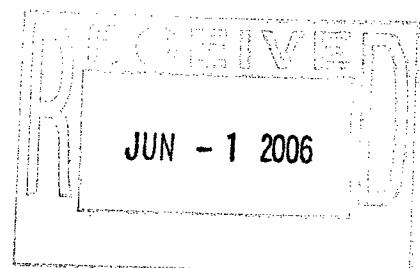
Hartman & Assoc., Inc. (HA005)

Attn: Miguel Garcia

201 E. Pine St. Suite 1000

Orlando, FL 32801

JUN - 1 2006



**RE: Project Number: 99.0331.029, Project Name/Desc: Enterprise Road Landfill  
ENCO Workorder: A602284**

Dear Miguel Garcia,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, May 11, 2006.

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald Wambles".

Ronald Wambles  
Project Manager

Enclosure(s)

**SAMPLE SUMMARY/LABORATORY CHRONICLE**

Client ID: MW-1

Lab ID: A602284-01

Sampled: 05/11/06 11:18

Received: 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/18/06	05/15/06 18:00	5/16/2006 17:10
EPA 300	05/13/06 11:18	05/11/06 14:00	5/12/2006 00:04
EPA 300.0	05/13/06 11:18	05/11/06 14:00	5/12/2006 00:04
EPA 300.0	06/08/06	05/11/06 14:00	5/12/2006 00:04
EPA 310.2	05/25/06	05/16/06 13:15	5/16/2006 18:44
EPA 350.1	06/08/06	05/18/06 10:23	5/18/2006 12:48
EPA 6020	11/07/06	05/12/06 12:15	5/12/2006 22:29
EPA 6020	11/07/06	05/12/06 12:15	5/17/2006 21:20
EPA 7470A	06/08/06	05/16/06 13:03	5/17/2006 10:11
EPA 8011	05/25/06	05/16/06 00:00	5/17/2006 00:58
EPA 8260B	05/25/06	05/11/06 13:02	5/11/2006 21:22
SM 4500	05/25/06	05/16/06 13:15	5/16/2006 18:44

Client ID: MW-5A

Lab ID: A602284-02

Sampled: 05/10/06 16:40

Received: 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/17/06	05/12/06 13:16	5/15/2006 12:55
EPA 300	05/12/06 16:40	05/11/06 14:00	5/12/2006 00:27
EPA 300.0	05/12/06 16:40	05/11/06 14:00	5/12/2006 00:27
EPA 300.0	06/07/06	05/11/06 14:00	5/12/2006 00:27
EPA 310.2	05/24/06	05/16/06 13:15	5/16/2006 18:45
EPA 350.1	06/07/06	05/18/06 10:23	5/18/2006 12:55
EPA 6020	11/06/06	05/12/06 12:15	5/12/2006 22:34
EPA 6020	11/06/06	05/12/06 12:15	5/17/2006 21:26
EPA 7470A	06/07/06	05/16/06 13:03	5/17/2006 10:36
EPA 8011	05/24/06	05/16/06 00:00	5/17/2006 01:09
EPA 8260B	05/24/06	05/11/06 13:02	5/11/2006 21:51
SM 4500	05/24/06	05/16/06 13:15	5/16/2006 18:45

**Client ID:** MW-5B**Lab ID:** A602284-03**Sampled:** 05/10/06 15:46**Received:** 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/17/06	05/12/06 13:16	5/15/2006 12:55
EPA 300	05/12/06 15:46	05/11/06 14:00	5/12/2006 01:36
EPA 300.0	05/12/06 15:46	05/11/06 14:00	5/12/2006 01:36
EPA 300.0	06/07/06	05/11/06 14:00	5/12/2006 01:36
EPA 310.2	05/24/06	05/16/06 13:15	5/16/2006 18:46
EPA 350.1	06/07/06	05/18/06 10:23	5/18/2006 12:56
EPA 6020	11/06/06	05/12/06 12:15	5/12/2006 22:40
EPA 6020	11/06/06	05/12/06 12:15	5/17/2006 21:31
EPA 7470A	06/07/06	05/16/06 13:03	5/17/2006 10:39
EPA 8011	05/24/06	05/16/06 00:00	5/17/2006 01:20
EPA 8260B	05/24/06	05/11/06 13:02	5/11/2006 22:20
SM 4500	05/24/06	05/16/06 13:15	5/16/2006 18:46

**Client ID:** MW-6**Lab ID:** A602284-04**Sampled:** 05/10/06 13:04**Received:** 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/17/06	05/12/06 13:16	5/15/2006 12:55
EPA 300	05/12/06 13:04	05/11/06 14:00	5/12/2006 01:59
EPA 300.0	05/12/06 13:04	05/11/06 14:00	5/12/2006 01:59
EPA 300.0	06/07/06	05/11/06 14:00	5/12/2006 01:59
EPA 310.2	05/24/06	05/16/06 13:15	5/16/2006 18:47
EPA 350.1	06/07/06	05/18/06 10:23	5/18/2006 12:57
EPA 6020	11/06/06	05/12/06 12:15	5/12/2006 22:46
EPA 6020	11/06/06	05/12/06 12:15	5/17/2006 21:37
EPA 7470A	06/07/06	05/16/06 13:03	5/17/2006 10:42
EPA 8011	05/24/06	05/16/06 00:00	5/17/2006 01:31
EPA 8260B	05/24/06	05/11/06 13:02	5/11/2006 22:49
SM 4500	05/24/06	05/16/06 13:15	5/16/2006 18:47

**Client ID:** MW-7A**Lab ID:** A602284-05**Sampled:** 05/10/06 13:54**Received:** 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/17/06	05/12/06 13:16	5/15/2006 12:55
EPA 300	05/12/06 13:54	05/11/06 14:00	5/12/2006 02:22
EPA 300.0	05/12/06 13:54	05/11/06 14:00	5/12/2006 02:22
EPA 300.0	06/07/06	05/11/06 14:00	5/12/2006 02:22
EPA 310.2	05/24/06	05/16/06 13:15	5/16/2006 18:48
EPA 350.1	06/07/06	05/18/06 10:23	5/18/2006 12:58
EPA 6020	11/06/06	05/12/06 12:15	5/12/2006 22:51
EPA 6020	11/06/06	05/12/06 12:15	5/17/2006 21:43
EPA 7470A	06/07/06	05/16/06 13:03	5/17/2006 10:45
EPA 8011	05/24/06	05/16/06 00:00	5/17/2006 01:41
EPA 8260B	05/24/06	05/11/06 13:02	5/11/2006 23:19
SM 4500	05/24/06	05/16/06 13:15	5/16/2006 18:48

**Client ID:** MW-7B**Lab ID:** A602284-06**Sampled:** 05/10/06 10:03**Received:** 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
CO2 SM 4500 CO2/D	05/24/06	05/17/06 11:40	5/17/2006 11:40
EPA 160.1	05/17/06	05/12/06 13:16	5/15/2006 12:55
EPA 300	05/12/06 10:03	05/11/06 14:00	5/11/2006 23:41
EPA 300.0	05/12/06 10:03	05/11/06 14:00	5/11/2006 23:41
EPA 300.0	06/07/06	05/11/06 14:00	5/11/2006 23:41
EPA 310.1	05/24/06	05/17/06 11:40	5/17/2006 11:40
EPA 350.1	06/07/06	05/18/06 10:23	5/18/2006 13:00
EPA 6020	11/06/06	05/12/06 12:15	5/12/2006 22:57
EPA 6020	11/06/06	05/12/06 12:15	5/17/2006 21:48
EPA 7470A	06/07/06	05/16/06 13:03	5/17/2006 10:49
EPA 8011	05/24/06	05/16/06 00:00	5/17/2006 01:52
EPA 8260B	05/24/06	05/11/06 13:02	5/12/2006 19:05

**Client ID:** Pond 1**Lab ID:** A602284-07**Sampled:** 05/11/06 13:03**Received:** 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
[CALC]	05/13/06 13:03	05/16/06 15:03	5/12/2006 02:45
EPA 160.1	05/18/06	05/15/06 18:00	5/16/2006 17:10
EPA 160.2	05/18/06	05/15/06 10:43	5/15/2006 14:30
EPA 200.8	11/07/06	05/12/06 12:15	5/12/2006 23:03
EPA 245.1	06/08/06	05/16/06 13:03	5/17/2006 10:52
EPA 300	05/13/06 13:03	05/11/06 14:00	5/12/2006 02:45
EPA 300.0	05/13/06 13:03	05/11/06 14:00	5/12/2006 02:45
EPA 310.2	05/25/06	05/16/06 13:15	5/16/2006 18:50
EPA 350.1	06/08/06	05/18/06 10:23	5/18/2006 13:01
EPA 350.1	06/08/06	05/19/06 13:49	5/25/2006 12:30
EPA 351.2	06/08/06	05/16/06 15:03	5/17/2006 12:23
EPA 365.4	06/08/06	05/16/06 15:03	5/17/2006 13:41
EPA 405.1	05/13/06 13:03 05/16/06	05/11/06 16:06	5/16/2006 09:40
EPA 410.4	06/08/06	05/16/06 10:28	5/16/2006 14:30
EPA 415.1	06/08/06	05/16/06 00:00	5/17/2006 15:09
SM 4500	05/25/06	05/16/06 13:15	5/16/2006 18:50

**Client ID:** Temp Pond**Lab ID:** A602284-08**Sampled:** 05/11/06 12:51**Received:** 05/11/06 14:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300	05/13/06 12:51	05/11/06 14:00	5/12/2006 03:08
EPA 300.0	05/13/06 12:51	05/11/06 14:00	5/12/2006 03:08
EPA 410.4	06/08/06	05/16/06 10:28	5/16/2006 14:30

### SAMPLE DETECTION SUMMARY

**Client ID: MW-1**

Analyte

	Lab ID: A602284-01	Results/Qual	MRL	Units	Method
Carbon disulfide		0.5 I	5	ug/L	EPA 8260B
Chloride		6.56	1.00	mg/L	EPA 300.0
Iron		431 I, D	500	ug/L	EPA 6020
Nitrate as N		0.330	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		0.330	0.100	mg/L	EPA 300
Sodium		3150 D, I	5000	ug/L	EPA 6020
Total Dissolved Solids		52	10	mg/L	EPA 160.1
Vanadium		50 I, D	1000	ug/L	EPA 6020

**Client ID: MW-5A**

Analyte

	Lab ID: A602284-02	Results/Qual	MRL	Units	Method
Bicarbonate as CaCO3		7 I	10	mg/L	SM 4500
Chloride		5.66	1.00	mg/L	EPA 300.0
Nitrate as N		0.873	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		0.873	0.100	mg/L	EPA 300
Sodium		3360 D, I	5000	ug/L	EPA 6020
Total Alkalinity		7 I	10	mg/L	EPA 310.2
Total Dissolved Solids		92	10	mg/L	EPA 160.1
Vanadium		50 I, D	1000	ug/L	EPA 6020

**Client ID: MW-5B**

Analyte

	Lab ID: A602284-03	Results/Qual	MRL	Units	Method
Bicarbonate as CaCO3		122	10	mg/L	SM 4500
Chloride		4.00	1.00	mg/L	EPA 300.0
Nitrate as N		0.638	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		0.638	0.100	mg/L	EPA 300
Sodium		3620 D, I	5000	ug/L	EPA 6020
Total Alkalinity		122	10	mg/L	EPA 310.2
Total Dissolved Solids		192	10	mg/L	EPA 160.1
Vanadium		58 I, D	1000	ug/L	EPA 6020

**Client ID: MW-6**

Analyte

	Lab ID: A602284-04	Results/Qual	MRL	Units	Method
Ammonia as N		0.007 I	0.02	mg/L	EPA 350.1
Chloride		15.4	1.00	mg/L	EPA 300.0
Iron		288 I, D	500	ug/L	EPA 6020
Nitrate as N		0.232	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N		0.232	0.100	mg/L	EPA 300
Sodium		7900 D	5000	ug/L	EPA 6020
Total Dissolved Solids		106	10	mg/L	EPA 160.1
Vanadium		50 I, D	1000	ug/L	EPA 6020

**Client ID: MW-7A**

Analyte

	Lab ID: A602284-05	Results/Qual	MRL	Units	Method

Chloride	2.89	1.00	mg/L	EPA 300.0
Iron	139 I, D	500	ug/L	EPA 6020
Nitrate as N	0.456	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N	0.456	0.100	mg/L	EPA 300
Sodium	2170 D, I	5000	ug/L	EPA 6020
Total Dissolved Solids	66	10	mg/L	EPA 160.1
Vanadium	51 I, D	1000	ug/L	EPA 6020

**Client ID: MW-7B**

Analyte	Results/Qual	MRL	Units	Method
Ammonia as N	0.4	0.02	mg/L	EPA 350.1
Chloride	4.41	1.00	mg/L	EPA 300.0
Nitrate as N	0.992	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N	1.20	0.100	mg/L	EPA 300
Nitrite as N	0.208	0.050	mg/L	EPA 300.0
Sodium	4020 D, I	5000	ug/L	EPA 6020
Toluene	0.7 I	1	ug/L	EPA 8260B
Total Alkalinity	63	2	mg/L	EPA 310.1
Total Dissolved Solids	136	10	mg/L	EPA 160.1
Vanadium	63 D, I	1000	ug/L	EPA 6020

**Client ID: Pond 1**

Analyte	Results/Qual	MRL	Units	Method
Bicarbonate as CaCO <sub>3</sub>	59	10	mg/L	SM 4500
Biochemical Oxygen Demand	2	2	mg/L	EPA 405.1
Chemical Oxygen Demand	13	10	mg/L	EPA 410.4
Nitrate as N	0.214	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N	0.214	0.100	mg/L	[CALC]
Nitrate/Nitrite as N	0.214	0.100	mg/L	EPA 300
Nitrogen Total	0.824	0.150	mg/L	[CALC]
Phosphorus	0.4	0.03	mg/L	EPA 365.4
Sodium	2230 D, I	5000	ug/L	EPA 200.8
Total Alkalinity	59	10	mg/L	EPA 310.2
Total Dissolved Solids	188	10	mg/L	EPA 160.1
Total Kjeldahl Nitrogen	0.61	0.05	mg/L	EPA 351.2
Total Organic Carbon	7	1	mg/L	EPA 415.1
Total Suspended Solids	4	3	mg/L	EPA 160.2

**Client ID: Temp Pond**

Analyte	Results/Qual	MRL	Units	Method
Chemical Oxygen Demand	29	10	mg/L	EPA 410.4
Nitrate as N	0.224	0.050	mg/L	EPA 300.0
Nitrate/Nitrite as N	0.224	0.100	mg/L	EPA 300

**ANALYTICAL REPORT**

Sample ID: MW-1  
Lab #: A602284-01  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane /	630-20-6	0.2 U	0.2 /	1	ug/L
1,1,1-Trichloroethane /	71-55-6	0.2 U	0.2 /	1	ug/L
1,1,2,2-Tetrachloroethane /	79-34-5	0.2 U	0.2 /	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4 /	1	ug/L
1,1-Dichloroethane /	75-34-3	0.3 U	0.3 /	1	ug/L
1,1-Dichloroethene /	75-35-4	0.8 U	0.8 /	1	ug/L
1,2,3-Trichloropropane /	96-18-4	0.3 U	0.3 (PQ<1) /	1	ug/L
1,2-Dichlorobenzene /	95-50-1	0.3 U	0.3 /	1	ug/L
1,2-Dichloroethane /	107-06-2	0.3 U	0.3 /	1	ug/L
1,2-Dichloropropane /	78-87-5	0.2 U	0.2 /	1	ug/L
1,4-Dichlorobenzene /	106-46-7	0.2 U	0.2 /	1	ug/L
2-Butanone /	78-93-3	1 U	1 /	5	ug/L
2-Hexanone /	591-78-6	2 U	2 /	5	ug/L
4-Methyl-2-pentanone /	108-10-1	2 U	2 /	5	ug/L
Acetone /	67-64-1	3 U	3 /	5	ug/L
Acrylonitrile /	107-13-1	2 U	2 (PQ<1) /	2	ug/L
Benzene /	71-43-2	0.1 U	0.1 /	1	ug/L
Bromochloromethane /	74-97-5	0.9 U	0.9 /	1	ug/L
Bromodichloromethane /	75-27-4	0.2 U	0.2 /	0.4	ug/L
Bromoform /	75-25-2	0.5 U	0.5 /	1	ug/L
Bromomethane /	74-83-9	1 U	1 /	1	ug/L
Carbon disulfide /	75-15-0	0.5 I	0.4 /	5	ug/L
Carbon tetrachloride /	56-23-5	0.2 U	0.2 /	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1 /	1	ug/L
Chloroethane /	75-00-3	0.5 U	0.5 /	1	ug/L
Chloroform /	67-66-3	0.2 U	0.2 /	1	ug/L
Chloromethane /	74-87-3	0.6 U	0.6 /	1	ug/L
cis-1,2-Dichloroethene /	156-59-2	0.3 U	0.3 /	1	ug/L
cis-1,3-Dichloropropene /	10061-01-5	0.1 U	0.1 /	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2 /	0.2	ug/L
Dibromomethane /	74-95-3	0.4 U	0.4 /	1	ug/L
Ethylbenzene /	100-41-4	0.3 U	0.3 /	1	ug/L
Iodomethane /	74-88-4	1 U	1 NE	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3 /	2	ug/L
Methylene chloride /	75-09-2	1 U	1 /	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6 /	1	ug/L

**ANALYTICAL REPORT**

Sample ID: MW-1  
Lab #: A602284-01  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene /	100-42-5	0.2 U	0.2 /	1	ug/L
Tetrachloroethene /	127-18-4	0.6 U	0.6 /	1	ug/L
Toluene /	108-88-3	0.2 U	0.2 /	1	ug/L
trans-1,2-Dichloroethene /	156-60-5	0.8 U	0.8 /	1	ug/L
trans-1,3-Dichloropropene /	10061-02-6	0.2 U	0.2 /	0.2	ug/L
trans-1,4-Dichloro-2-butene /	110-57-6	0.5 U	0.5 NE	1	ug/L
Trichloroethene /	79-01-6	0.3 U	0.3 /	1	ug/L
Trichlorofluoromethane /	75-69-4	0.7 U	0.7 /	1	ug/L
Vinyl acetate /	108-05-4	0.2 U	0.2 /	1	ug/L
Vinyl chloride /	75-01-4	0.5 U	0.5 /	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39.4	50.0	79 %	60-135
Dibromofluoromethane	1868-53-7	51.9	50.0	104 %	52-149
Toluene-d8	2037-26-5	53.3	50.0	107 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-1  
Lab #: A602284-01  
Prep. Method: EPA 504/8011  
Analyzed: 05/17/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.553	0.500	111 %	60-140

**ANALYTICAL REPORT**

Sample ID: MW-1  
Lab #: A602284-01

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury /	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E16002

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony /	7440-36-0	10 U, D	(10) ✓	200	ug/L
Arsenic /	7440-38-2	30 U, D	(30) ✓	100	ug/L
Barium /	7440-39-3	10 U, D	10 ✓	500	ug/L
Beryllium /	7440-41-7	20 U, D	(20) ✓	20	ug/L
Cadmium /	7440-43-9	10 U, D	(10) ✓	10	ug/L
Chromium /	7440-47-3	20 U, D	20 ✓	100	ug/L
Cobalt /	7440-48-4	20 U, D	20 ✓	100	ug/L
Copper /	7440-50-8	20 U, D	20 ✓	100	ug/L
Iron /	7439-89-6	431 I, D	40 ✓	500	ug/L
Lead /	7439-92-1	30 U, D	(30) ✓	100	ug/L
Nickel /	7440-02-0	20 U, D	20 ✓	500	ug/L
Selenium /	7782-49-2	40 U, D	40 ✓	100	ug/L
Silver /	7440-22-4	1 U, D	1 ✓	100	ug/L
Sodium /	7440-23-5	3150 D, I	190 ✓	5000	ug/L
Thallium /	7440-28-0	20 U, D	(20) ✓	100	ug/L
Vanadium /	7440-62-2	50 I, D	20 ✓	1000	ug/L
Zinc	7440-66-6	100 U, D	100 ✓	200	ug/L

## ANALYTICAL REPORT

Sample ID: MW-1  
 Lab #: A602284-01

Project: Enterprise Road Landfill  
 Work Order #: A602284  
 Matrix: Ground Water

### **Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E18007
Bicarbonate as CaCO <sub>3</sub>		4 U	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	<b>6.56</b>	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate as N	NA	<b>0.330</b>	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		<b>0.330</b>	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Total Alkalinity	NA	4 U	4	10	mg/L	EPA 310.2	NO PREP	6E16009
Total Dissolved Solids	NA	<b>52</b>	10	10	mg/L	EPA 160.1	NO PREP	6E15003

## ANALYTICAL REPORT

Sample ID: MW-5A  
 Lab #: A602284-02  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/11/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E11011

Project: Enterprise Road Landfill  
 Work Order #: A602284  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: MW-5A Project: Enterprise Road Landfill  
Lab #: A602284-02 Work Order #: A602284  
Prep. Method: EPA 5030B\_MS Matrix: Ground Water  
Analyzed: 05/11/06 By: kat Unit: ug/L  
Anal. Method: EPA 8260B Dilution Factor: 1  
Anal. Batch:  
QC Batch: 6E11011

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39.5	50.0	79 %	60-135
Dibromofluoromethane	1868-53-7	51.8	50.0	104 %	52-149
Toluene-d8	2037-26-5	53.5	50.0	107 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-5A  
Lab #: A602284-02  
Prep. Method: EPA 504/8011  
Analyzed: 05/17/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.443	0.500	89 %	60-140

**ANALYTICAL REPORT**Sample ID: MW-5A  
Lab #: A602284-02Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water**Metals by EPA 6000/7000 Series Methods**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E16002

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	10 U, D	10	200	ug/L
Arsenic	7440-38-2	30 U, D	30	100	ug/L
Barium	7440-39-3	10 U, D	10	500	ug/L
Beryllium	7440-41-7	20 U, D	20	20	ug/L
Cadmium	7440-43-9	10 U, D	10	10	ug/L
Chromium	7440-47-3	20 U, D	20	100	ug/L
Cobalt	7440-48-4	20 U, D	20	100	ug/L
Copper	7440-50-8	20 U, D	20	100	ug/L
Iron	7439-89-6	40 U, D	40	500	ug/L
Lead	7439-92-1	30 U, D	30	100	ug/L
Nickel	7440-02-0	20 U, D	20	500	ug/L
Selenium	7782-49-2	40 U, D	40	100	ug/L
Silver	7440-22-4	1 U, D	1	100	ug/L
Sodium	7440-23-5	3360 D, I	190	5000	ug/L
Thallium	7440-28-0	20 U, D	20	100	ug/L
Vanadium	7440-62-2	50 I, D	20	1000	ug/L
Zinc	7440-66-6	100 U, D	100	200	ug/L

## ANALYTICAL REPORT

Sample ID: MW-5A  
Lab #: A602284-02

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E18007
Bicarbonate as CaCO <sub>3</sub>		7 I	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	5.66	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate as N	NA	0.873	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		0.873	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Total Alkalinity	NA	7 I	4	10	mg/L	EPA 310.2	NO PREP	6E16009
Total Dissolved Solids	NA	92	10	10	mg/L	EPA 160.1	Default Prep GenChem	6E12005

## ANALYTICAL REPORT

Sample ID: MW-5B  
 Lab #: A602284-03  
 Prep. Method: EPA 5030B\_MS  
 Analyzed: 05/11/06 By: kat  
 Anal. Method: EPA 8260B  
 Anal. Batch:  
 QC Batch: 6E11011

Project: Enterprise Road Landfill  
 Work Order #: A602284  
 Matrix: Ground Water  
 Unit: ug/L  
 Dilution Factor: 1

### Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: MW-5B  
Lab #: A602284-03  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	34.0	50.0	68 %	60-135
Dibromofluoromethane	1868-53-7	44.1	50.0	88 %	52-149
Toluene-d8	2037-26-5	45.9	50.0	92 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-5B  
Lab #: A602284-03  
Prep. Method: EPA 504/8011  
Analyzed: 05/17/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.472	0.500	94 %	60-140

## ANALYTICAL REPORT

Sample ID: MW-5B  
Lab #: A602284-03

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E16002

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	10 U, D	10	200	ug/L
Arsenic	7440-38-2	30 U, D	30	100	ug/L
Barium	7440-39-3	10 U, D	10	500	ug/L
Beryllium	7440-41-7	20 U, D	20	20	ug/L
Cadmium	7440-43-9	10 U, D	10	10	ug/L
Chromium	7440-47-3	20 U, D	20	100	ug/L
Cobalt	7440-48-4	20 U, D	20	100	ug/L
Copper	7440-50-8	20 U, D	20	100	ug/L
Iron	7439-89-6	40 U, D	40	500	ug/L
Lead	7439-92-1	30 U, D	30	100	ug/L
Nickel	7440-02-0	20 U, D	20	500	ug/L
Selenium	7782-49-2	40 U, D	40	100	ug/L
Silver	7440-22-4	1 U, D	1	100	ug/L
Sodium	7440-23-5	3620 D, I	190	5000	ug/L
Thallium	7440-28-0	20 U, D	20	100	ug/L
Vanadium	7440-62-2	58 I, D	20	1000	ug/L
Zinc	7440-66-6	100 U, D	100	200	ug/L

## ANALYTICAL REPORT

Sample ID: MW-5B  
Lab #: A602284-03

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E18007
Bicarbonate as CaCO <sub>3</sub>		122	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	4.00	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate as N	NA	0.638	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		0.638	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Total Alkalinity	NA	122	4	10	mg/L	EPA 310.2	NO PREP	6E16009
Total Dissolved Solids	NA	192	10	10	mg/L	EPA 160.1	Default Prep GenChem	6E12005

**ANALYTICAL REPORT**

Sample ID: MW-6  
Lab #: A602284-04  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: MW-6  
Lab #: A602284-04  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39.7	50.0	79 %	60-135
Dibromofluoromethane	1868-53-7	49.3	50.0	99 %	52-149
Toluene-d8	2037-26-5	52.0	50.0	104 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-6 Project: Enterprise Road Landfill  
Lab #: A602284-04 Work Order #: A602284  
Prep. Method: EPA 504/8011 Matrix: Ground Water  
Analyzed: 05/17/06 By: RB Unit: ug/L  
Anal. Method: EPA 8011 Dilution Factor: 1  
Anal. Batch:  
QC Batch: 6E16013

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**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.462	0.500	92 %	60-140

## ANALYTICAL REPORT

Sample ID: MW-6  
Lab #: A602284-04

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E16002

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	10 U, D	10	200	ug/L
Arsenic	7440-38-2	30 U, D	30	100	ug/L
Barium	7440-39-3	10 U, D	10	500	ug/L
Beryllium	7440-41-7	20 U, D	20	20	ug/L
Cadmium	7440-43-9	10 U, D	10	10	ug/L
Chromium	7440-47-3	20 U, D	20	100	ug/L
Cobalt	7440-48-4	20 U, D	20	100	ug/L
Copper	7440-50-8	20 U, D	20	100	ug/L
Iron	7439-89-6	<b>288</b> I, D	40	500	ug/L
Lead	7439-92-1	30 U, D	30	100	ug/L
Nickel	7440-02-0	20 U, D	20	500	ug/L
Selenium	7782-49-2	40 U, D	40	100	ug/L
Silver	7440-22-4	1 U, D	1	100	ug/L
Sodium	7440-23-5	<b>7900</b> D	190	5000	ug/L
Thallium	7440-28-0	20 U, D	20	100	ug/L
Vanadium	7440-62-2	<b>50</b> I, D	20	1000	ug/L
Zinc	7440-66-6	100 U, D	100	200	ug/L

## ANALYTICAL REPORT

Sample ID: MW-6  
Lab #: A602284-04

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.007 I 4 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E18007
Bicarbonate as CaCO <sub>3</sub>			4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	15.4		0.05	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate as N	NA	0.232		0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem
Nitrate/Nitrite as N		0.232		0.015	0.100	mg/L	EPA 300	[CALC] [CALC]
Nitrite as N	NA	0.007 U		0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem
Total Alkalinity	NA	4 U		4	10	mg/L	EPA 310.2	NO PREP
Total Dissolved Solids	NA	106		10	10	mg/L	EPA 160.1	Default Prep GenChem

**ANALYTICAL REPORT**

Sample ID: MW-7A  
Lab #: A602284-05  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: MW-7A  
Lab #: A602284-05  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/11/06 By: kat  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.2 U	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39.2	50.0	78 %	60-135
Dibromofluoromethane	1868-53-7	52.5	50.0	105 %	52-149
Toluene-d8	2037-26-5	51.9	50.0	104 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-7A  
Lab #: A602284-05  
Prep. Method: EPA 504/8011  
Analyzed: 05/17/06 By: RB  
Anal. Method: EPA 8011  
Anal. Batch:  
QC Batch: 6E16013

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.415	0.500	83 %	60-140

## ANALYTICAL REPORT

Sample ID: MW-7A  
Lab #: A602284-05

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E16002

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	10 U, D	10	200	ug/L
Arsenic	7440-38-2	30 U, D	30	100	ug/L
Barium	7440-39-3	10 U, D	10	500	ug/L
Beryllium	7440-41-7	20 U, D	20	20	ug/L
Cadmium	7440-43-9	10 U, D	10	10	ug/L
Chromium	7440-47-3	20 U, D	20	100	ug/L
Cobalt	7440-48-4	20 U, D	20	100	ug/L
Copper	7440-50-8	20 U, D	20	100	ug/L
Iron	7439-89-6	139 I, D	40	500	ug/L
Lead	7439-92-1	30 U, D	30	100	ug/L
Nickel	7440-02-0	20 U, D	20	500	ug/L
Selenium	7782-49-2	40 U, D	40	100	ug/L
Silver	7440-22-4	1 U, D	1	100	ug/L
Sodium	7440-23-5	2170 D, I	190	5000	ug/L
Thallium	7440-28-0	20 U, D	20	100	ug/L
Vanadium	7440-62-2	51 I, D	20	1000	ug/L
Zinc	7440-66-6	100 U, D	100	200	ug/L

ANALYTICAL REPORT

Sample ID: MW-7A  
Lab #: A602284-05

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

**Classical Chemistry Parameters**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E18007
Bicarbonate as CaCO <sub>3</sub>		4 U	4	10	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	2.89	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate as N	NA	0.456	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		0.456	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.007 U	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Total Alkalinity	NA	4 U	4	10	mg/L	EPA 310.2	NO PREP	6E16009
Total Dissolved Solids	NA	66	10	10	mg/L	EPA 160.1	Default Prep GenChem	6E12005

**ANALYTICAL REPORT**

Sample ID: MW-7B  
Lab #: A602284-06  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/12/06 By: kb  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.2 U	0.2	1	ug/L
1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.2 U	0.2	0.2	ug/L
1,1,2-Trichloroethane	79-00-5	0.4 U	0.4	1	ug/L
1,1-Dichloroethane	75-34-3	0.3 U	0.3	1	ug/L
1,1-Dichloroethene	75-35-4	0.8 U	0.8	1	ug/L
1,2,3-Trichloropropane	96-18-4	0.3 U	0.3	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.3 U	0.3	1	ug/L
1,2-Dichloroethane	107-06-2	0.3 U	0.3	1	ug/L
1,2-Dichloropropane	78-87-5	0.2 U	0.2	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.2 U	0.2	1	ug/L
2-Butanone	78-93-3	1 U	1	5	ug/L
2-Hexanone	591-78-6	2 U	2	5	ug/L
4-Methyl-2-pentanone	108-10-1	2 U	2	5	ug/L
Acetone	67-64-1	3 U	3	5	ug/L
Acrylonitrile	107-13-1	2 U	2	2	ug/L
Benzene	71-43-2	0.1 U	0.1	1	ug/L
Bromochloromethane	74-97-5	0.9 U	0.9	1	ug/L
Bromodichloromethane	75-27-4	0.2 U	0.2	0.4	ug/L
Bromoform	75-25-2	0.5 U	0.5	1	ug/L
Bromomethane	74-83-9	1 U	1	1	ug/L
Carbon disulfide	75-15-0	0.4 U	0.4	5	ug/L
Carbon tetrachloride	56-23-5	0.2 U	0.2	1	ug/L
Chlorobenzene	108-90-7	0.1 U	0.1	1	ug/L
Chloroethane	75-00-3	0.5 U	0.5	1	ug/L
Chloroform	67-66-3	0.2 U	0.2	1	ug/L
Chloromethane	74-87-3	0.6 U	0.6	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.3 U	0.3	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.1 U	0.1	0.2	ug/L
Dibromochloromethane	124-48-1	0.2 U	0.2	0.2	ug/L
Dibromomethane	74-95-3	0.4 U	0.4	1	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1	ug/L
Iodomethane	74-88-4	1 U	1	3	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2	ug/L
Methylene chloride	75-09-2	1 U	1	2	ug/L
o-Xylene	95-47-6	0.6 U	0.6	1	ug/L

**ANALYTICAL REPORT**

Sample ID: MW-7B  
Lab #: A602284-06  
Prep. Method: EPA 5030B\_MS  
Analyzed: 05/12/06 By: kb  
Anal. Method: EPA 8260B  
Anal. Batch:  
QC Batch: 6E11011

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water  
Unit: ug/L  
Dilution Factor: 1

**Volatile Organic Compounds by GCMS**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.2 U	0.2	1	ug/L
Tetrachloroethene	127-18-4	0.6 U	0.6	1	ug/L
Toluene	108-88-3	0.7 I	0.2	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.2 U	0.2	0.2	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.5 U	0.5	1	ug/L
Trichloroethene	79-01-6	0.3 U	0.3	1	ug/L
Trichlorofluoromethane	75-69-4	0.7 U	0.7	1	ug/L
Vinyl acetate	108-05-4	0.2 U	0.2	1	ug/L
Vinyl chloride	75-01-4	0.5 U	0.5	1	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	42.4	50.0	85 %	60-135
Dibromofluoromethane	1868-53-7	52.4	50.0	105 %	52-149
Toluene-d8	2037-26-5	54.2	50.0	108 %	70-132

**ANALYTICAL REPORT**

Sample ID: MW-7B Project: Enterprise Road Landfill  
Lab #: A602284-06 Work Order #: A602284  
Prep. Method: EPA 504/8011 Matrix: Ground Water  
Analyzed: 05/17/06 By: RB Unit: ug/L  
Anal. Method: EPA 8011 Dilution Factor: 1  
Anal. Batch:  
QC Batch: 6E16013

**Semivolatile Organic Compounds by GC**

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.009 U	0.009	0.02	ug/L
1,2-Dibromoethane	106-93-4	0.01 U	0.01	0.02	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.461	0.500	92 %	60-140

**ANALYTICAL REPORT**

Sample ID: MW-7B  
Lab #: A602284-06

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	6E16002

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Antimony	7440-36-0	10 U, D	10	200	ug/L
Arsenic	7440-38-2	30 U, D	30	100	ug/L
Barium	7440-39-3	10 U, D	10	500	ug/L
Beryllium	7440-41-7	20 U, D	20	20	ug/L
Cadmium	7440-43-9	10 U, D	10	10	ug/L
Chromium	7440-47-3	20 U, D	20	100	ug/L
Cobalt	7440-48-4	20 U, D	20	100	ug/L
Copper	7440-50-8	20 U, D	20	100	ug/L
Iron	7439-89-6	40 U, D	40	500	ug/L
Lead	7439-92-1	30 U, D	30	100	ug/L
Nickel	7440-02-0	20 U, D	20	500	ug/L
Selenium	7782-49-2	40 U, D	40	100	ug/L
Silver	7440-22-4	1 U, D	1	100	ug/L
Sodium	7440-23-5	4020 D, I	190	5000	ug/L
Thallium	7440-28-0	20 U, D	20	100	ug/L
Vanadium	7440-62-2	63 D, I	20	1000	ug/L
Zinc	7440-66-6	100 U, D	100	200	ug/L

## ANALYTICAL REPORT

Sample ID: MW-7B  
Lab #: A602284-06

Project: Enterprise Road Landfill  
Work Order #: A602284  
Matrix: Ground Water

### Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	0.4	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E18007
Carbon Dioxide	124-38-9	2 U	2	2	mg/L	CO2 SM 4500 CO2/D	NO PREP	6E17009
Chloride	16887-00-6	4.41	0.05	1.00	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate as N	NA	0.992	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		1.20	0.015	0.100	mg/L	EPA 300	[CALC]	[CALC]
Nitrite as N	NA	0.208	0.007	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Total Alkalinity	NA	63	2	2	mg/L	EPA 310.1	Default Prep GenChem	6E17006
Total Dissolved Solids	NA	136	10	10	mg/L	EPA 160.1	Default Prep GenChem	6E12005

## QUALITY CONTROL

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

Batch 6E11011 - EPA 5030B\_MS

#### Blank (6E11011-BLK1)

Prepared: 05/11/2006 13:02 Analyzed: 05/11/2006 13:38

1,1,1,2-Tetrachloroethane	0.2 U	1	ug/L
1,1,1-Trichloroethane	0.2 U	1	ug/L
1,1,2,2-Tetrachloroethane	0.2 U	0.2	ug/L
1,1,2-Trichloroethane	0.4 U	1	ug/L
1,1-Dichloroethane	0.3 U	1	ug/L
1,1-Dichloroethene	0.8 U	1	ug/L
1,2,3-Trichloropropane	0.3 U	1	ug/L
1,2-Dichlorobenzene	0.3 U	1	ug/L
1,2-Dichloroethane	0.3 U	1	ug/L
1,2-Dichloropropane	0.2 U	1	ug/L
1,4-Dichlorobenzene	0.2 U	1	ug/L
2-Butanone	1 U	5	ug/L
2-Hexanone	2 U	5	ug/L
4-Methyl-2-pentanone	2 U	5	ug/L
Acetone	3 U	5	ug/L
Acrylonitrile	2 U	2	ug/L
Benzene	0.1 U	1	ug/L
Bromochloromethane	0.9 U	1	ug/L
Bromodichloromethane	0.2 U	0.4	ug/L
Bromoform	0.5 U	1	ug/L
Bromomethane	1 U	1	ug/L
Carbon disulfide	0.4 U	5	ug/L
Carbon tetrachloride	0.2 U	1	ug/L
Chlorobenzene	0.1 U	1	ug/L
Chloroethane	0.5 U	1	ug/L
Chloroform	0.2 U	1	ug/L
Chloromethane	0.6 U	1	ug/L
cis-1,2-Dichloroethene	0.3 U	1	ug/L
cis-1,3-Dichloropropene	0.1 U	0.2	ug/L
Dibromochloromethane	0.2 U	0.2	ug/L
Dibromomethane	0.4 U	1	ug/L
Ethylbenzene	0.3 U	1	ug/L
Iodomethane	1 U	3	ug/L
m,p-Xylenes	0.3 U	2	ug/L
Methylene chloride	1 U	2	ug/L
o-Xylene	0.6 U	1	ug/L
Styrene	0.2 U	1	ug/L
Tetrachloroethene	0.6 U	1	ug/L
Toluene	0.2 U	1	ug/L
trans-1,2-Dichloroethene	0.8 U	1	ug/L
trans-1,3-Dichloropropene	0.2 U	0.2	ug/L
trans-1,4-Dichloro-2-butene	0.5 U	1	ug/L
Trichloroethene	0.3 U	1	ug/L
Trichlorofluoromethane	0.7 U	1	ug/L
Vinyl acetate	0.2 U	1	ug/L

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
<b>Volatile Organic Compounds by GCMS - Quality Control</b>										
<i>Batch 6E11011 - EPA 5030B_MS</i>										
<b>Blank (6E11011-BLK1) Continued</b>										
Vinyl chloride	0.5 U	1	ug/L							
<i>Surrogate: Toluene-d8</i>	57.4		ug/L	50.0		115	70-132			
<i>Surrogate: 4-Bromofluorobenzene</i>	42.5		ug/L	50.0		85	60-135			
<i>Surrogate: Dibromofluoromethane</i>	51.6		ug/L	50.0		103	52-149			
<b>LCS (6E11011-BS1)</b>										
1,1-Dichloroethene	25.3	1	ug/L	20.0		126	49-156			
Benzene	20.1	1	ug/L	20.0		100	64-132			
Chlorobenzene	18.4	1	ug/L	20.0		92	68-135			
Toluene	16.9	1	ug/L	20.0		84	58-132			
Trichloroethene	20.6	1	ug/L	20.0		103	66-130			
<i>Surrogate: Toluene-d8</i>	52.5		ug/L	50.0		105	70-132			
<i>Surrogate: 4-Bromofluorobenzene</i>	37.8		ug/L	50.0		76	60-135			
<i>Surrogate: Dibromofluoromethane</i>	40.8		ug/L	50.0		82	52-149			
<b>Matrix Spike (6E11011-MS1)</b>										
	<b>Source: A602281-02</b>									
1,1-Dichloroethene	27.9	1	ug/L	20.0	0.8 U	140	36-185			
Benzene	21.7	1	ug/L	20.0	0.1 U	108	65-143			
Chlorobenzene	19.0	1	ug/L	20.0	0.1 U	95	64-140			
Toluene	18.5	1	ug/L	20.0	0.2 U	92	62-144			
Trichloroethene	20.6	1	ug/L	20.0	0.3 U	103	51-152			
<i>Surrogate: Toluene-d8</i>	52.5		ug/L	50.0		105	70-132			
<i>Surrogate: 4-Bromofluorobenzene</i>	37.9		ug/L	50.0		76	60-135			
<i>Surrogate: Dibromofluoromethane</i>	42.4		ug/L	50.0		85	52-149			
<b>Matrix Spike Dup (6E11011-MSD1)</b>										
	<b>Source: A602281-02</b>									
1,1-Dichloroethene	28.1	1	ug/L	20.0	0.8 U	140	36-185	0.7	34	
Benzene	21.5	1	ug/L	20.0	0.1 U	108	65-143	0.9	25	
Chlorobenzene	16.6	1	ug/L	20.0	0.1 U	83	64-140	13	23	
Toluene	18.5	1	ug/L	20.0	0.2 U	92	62-144	0	24	
Trichloroethene	18.7	1	ug/L	20.0	0.3 U	94	51-152	10	28	
<i>Surrogate: Toluene-d8</i>	50.9		ug/L	50.0		102	70-132			
<i>Surrogate: 4-Bromofluorobenzene</i>	38.4		ug/L	50.0		77	60-135			
<i>Surrogate: Dibromofluoromethane</i>	40.2		ug/L	50.0		80	52-149			
<b>Semivolatile Organic Compounds by GC - Quality Control</b>										
<i>Batch 6E16013 - EPA 504/8011</i>										
<b>Blank (6E16013-BLK1)</b>										
1,2-Dibromoethane	0.01 U	0.02	ug/L							
1,2-Dibromo-3-chloropropane	0.009 U	0.02	ug/L							
<b>LCS (6E16013-BS1)</b>										
1,2-Dibromoethane	0.230	0.02	ug/L	0.250		92	60-140			
1,2-Dibromo-3-chloropropane	0.314	0.02	ug/L	0.250		126	60-140			
<b>Matrix Spike (6E16013-MS1)</b>										
	<b>Source: A601814-01</b>									
1,2-Dibromoethane	0.233	0.02	ug/L	0.250	0.01 U	93	65-135			

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Semivolatile Organic Compounds by GC - Quality Control**
*Batch 6E16013 - EPA 504/8011*

Matrix Spike (6E16013-MS1) Continued	Source: A601814-01	Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:43
1,2-Dibromo-3-chloropropane	0.304	0.02 ug/L 0.250 0.009 U 122 65-135
Matrix Spike Dup (6E16013-MSD1)	Source: A601814-01	Prepared: 05/16/2006 00:00 Analyzed: 05/16/2006 21:54
1,2-Dibromoethane	0.219	0.02 ug/L 0.250 0.01 U 88 65-135 6 18
1,2-Dibromo-3-chloropropane	0.289	0.02 ug/L 0.250 0.009 U 116 65-135 5 20

**Metals by EPA 200 Series Methods - Quality Control**
*Batch 6E12007 - EPA 3005A*

Blank (6E12007-BLK1)		Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 20:03
Copper	2 U	10 ug/L
Iron	4 U	50 ug/L
Sodium	19 U	500 ug/L
Zinc	10 U	20 ug/L

LCS (6E12007-BS1)		Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 20:14
Copper	502	10 ug/L 500 100 85-115
Iron	543	50 ug/L 500 109 85-115
Sodium	490 I	500 ug/L 500 98 85-115
Zinc	493	20 ug/L 500 99 85-115

Matrix Spike (6E12007-MS1)	Source: A602131-04	Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 21:02
Copper	5010 D	100 ug/L 5000 20 U 100 70-130 D
Iron	5090 D	500 ug/L 5000 40 U 102 70-130 D
Sodium	4840 I, D	5000 ug/L 5000 190 U 97 70-130 D
Zinc	4840 D	200 ug/L 5000 100 U 97 70-130 D

Matrix Spike Dup (6E12007-MSD1)	Source: A602131-04	Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 21:12
Copper	5040 D	100 ug/L 5000 20 U 101 70-130 0.6 20 D
Iron	4930 D	500 ug/L 5000 40 U 99 70-130 3 20 D
Sodium	5090 D	5000 ug/L 5000 190 U 102 70-130 5 20 D
Zinc	4880 D	200 ug/L 5000 100 U 98 70-130 0.8 20 D

Post Spike (6E12007-PS1)	Source: A602131-04	Prepared: 05/12/2006 12:15 Analyzed: 05/13/2006 00:03
Copper	0.511 D	0.01 mg/L 0.500 -0.00370 103 75-125 D
Iron	0.549 D	0.05 mg/L 0.500 -0.0104 112 75-125 D
Sodium	0.497 D	0.5 mg/L 0.500 -0.0338 106 75-125 D
Zinc	0.499 D	0.0200 mg/L 0.500 -0.00874 102 75-125 D

*Batch 6E16002 - EPA 7470A*

Blank (6E16002-BLK1)		Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:41
Mercury	0.11 U	0.20 ug/L
LCS (6E16002-BS1)		Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:44
Mercury	5.42	0.20 ug/L 5.00 108 93-111
Matrix Spike (6E16002-MS1)	Source: A602131-04	Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:51
Mercury	5.91	0.20 ug/L 5.00 0.11 U 118 85-115
Matrix Spike Dup (6E16002-MSD1)	Source: A602131-04	Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:55
Mercury	5.82	0.20 ug/L 5.00 0.11 U 116 85-115 2 12

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

## QUALITY CONTROL

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

Batch 6E12007 - EPA 3005A

**Blank (6E12007-BLK1)**

Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 20:03

Antimony	1 U	20	ug/L
Arsenic	3 U	10	ug/L
Barium	1 U	50	ug/L
Beryllium	2 U	2	ug/L
Cadmium	1 U	1	ug/L
Chromium	2 U	10	ug/L
Cobalt	2 U	10	ug/L
Copper	2 U	10	ug/L
Iron	4 U	50	ug/L
Lead	3 U	10	ug/L
Nickel	2 U	50	ug/L
Selenium	4 U	10	ug/L
Silver	0.1 U	10	ug/L
Sodium	19 U	500	ug/L
Thallium	2 U	10	ug/L
Vanadium	5 I	100	ug/L
Zinc	10 U	20	ug/L

**LCS (6E12007-BS1)**

Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 20:14

Antimony	500	20	ug/L	500	100	85-115
Arsenic	478	10	ug/L	500	96	85-115
Barium	503	50	ug/L	500	101	85-115
Beryllium	492	2	ug/L	500	98	85-115
Cadmium	492	1	ug/L	500	98	85-115
Chromium	513	10	ug/L	500	103	85-115
Cobalt	515	10	ug/L	500	103	85-115
Copper	502	10	ug/L	500	100	85-115
Iron	543	50	ug/L	500	109	85-115
Lead	501	10	ug/L	500	100	85-115
Nickel	510	50	ug/L	500	102	85-115
Selenium	478	10	ug/L	500	96	85-115
Silver	454	10	ug/L	500	91	85-115
Sodium	490 I	500	ug/L	500	98	85-115
Thallium	489	10	ug/L	500	98	85-115
Vanadium	457	100	ug/L	500	91	85-115
Zinc	493	20	ug/L	500	99	85-115

**Matrix Spike (6E12007-MS1)**

Source: A602131-04

Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 21:02

Antimony	4930 D	200	ug/L	5000	10 U	99	70-130	D
Arsenic	4820 D	100	ug/L	5000	30 U	96	70-130	D
Barium	4980 D	500	ug/L	5000	10 U	100	70-130	D
Beryllium	4910 D	20	ug/L	5000	20 U	98	70-130	D
Cadmium	4880 D	10	ug/L	5000	10 U	98	70-130	D
Chromium	5060 D	100	ug/L	5000	20 U	101	70-130	D
Cobalt	5220 D	100	ug/L	5000	20 U	104	70-130	D
Copper	5010 D	100	ug/L	5000	20 U	100	70-130	D
Iron	5090 D	500	ug/L	5000	40 U	102	70-130	D

## QUALITY CONTROL

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

Batch 6E12007 - EPA 3005A

Matrix Spike (6E12007-MS1) Continued      Source: A602131-04      Prepared: 05/12/2006 12:15 Analyzed: 05/17/2006 19:27

Lead	5020 D	100	ug/L	5000	30 U	100	70-130		D
Nickel	5030 D	500	ug/L	5000	20 U	101	70-130		D
Selenium	4730 D	100	ug/L	5000	40 U	95	70-130		D
Silver	4530 D	100	ug/L	5000	1 U	91	70-130		D
Sodium	4840 I, D	5000	ug/L	5000	190 U	97	70-130		D
Thallium	4860 D	100	ug/L	5000	20 U	97	70-130		D
Vanadium	4510 D	1000	ug/L	5000	49.8	89	70-130		D
Zinc	4840 D	200	ug/L	5000	100 U	97	70-130		D

Matrix Spike Dup (6E12007-MSD1)      Source: A602131-04      Prepared: 05/12/2006 12:15 Analyzed: 05/12/2006 21:12

Antimony	4950 D	200	ug/L	5000	10 U	99	70-130	0.4	20	D
Arsenic	4940 D	100	ug/L	5000	30 U	99	70-130	2	20	D
Barium	5010 D	500	ug/L	5000	10 U	100	70-130	0.6	20	D
Beryllium	4960 D	20	ug/L	5000	20 U	99	70-130	1	20	D
Cadmium	4920 D	10	ug/L	5000	10 U	98	70-130	0.8	20	D
Chromium	5130 D	100	ug/L	5000	20 U	103	70-130	1	20	D
Cobalt	5190 D	100	ug/L	5000	20 U	104	70-130	0.6	20	D
Copper	5040 D	100	ug/L	5000	20 U	101	70-130	0.6	20	D
Iron	4930 D	500	ug/L	5000	40 U	99	70-130	3	20	D
Lead	5040 D	100	ug/L	5000	30 U	101	70-130	0.4	20	D
Nickel	5080 D	500	ug/L	5000	20 U	102	70-130	1	20	D
Selenium	4840 D	100	ug/L	5000	40 U	97	70-130	2	20	D
Silver	4500 D	100	ug/L	5000	1 U	90	70-130	0.7	20	D
Sodium	5090 D	5000	ug/L	5000	190 U	102	70-130	5	20	D
Thallium	4930 D	100	ug/L	5000	20 U	99	70-130	1	20	D
Vanadium	4530 D	1000	ug/L	5000	49.8	90	70-130	0.4	20	D
Zinc	4880 D	200	ug/L	5000	100 U	98	70-130	0.8	20	D

Post Spike (6E12007-PS1)      Source: A602131-04      Prepared: 05/12/2006 12:15 Analyzed: 05/13/2006 00:03

Antimony	0.503 D	0.02	mg/L	0.500	0.000466	101	75-125		D
Arsenic	0.485 D	0.01	mg/L	0.500	-0.000266	97	75-125		D
Barium	0.508 D	0.05	mg/L	0.500	-0.00343	102	75-125		D
Beryllium	0.511 D	0.002	mg/L	0.500	-0.00256	103	75-125		D
Cadmium	0.497 D	0.001	mg/L	0.500	-0.00180	100	75-125		D
Chromium	0.522 D	0.01	mg/L	0.500	-0.00277	105	75-125		D
Cobalt	0.531 D	0.01	mg/L	0.500	0.00104	106	75-125		D
Copper	0.511 D	0.01	mg/L	0.500	-0.00370	103	75-125		D
Iron	0.549 D	0.05	mg/L	0.500	-0.0104	112	75-125		D
Lead	0.510 D	0.01	mg/L	0.500	-0.000910	102	75-125		D
Nickel	0.511 D	0.05	mg/L	0.500	-0.00379	103	75-125		D
Selenium	0.481 D	0.01	mg/L	0.500	-0.00122	96	75-125		D
Silver	0.465 D	0.01	mg/L	0.500	5.12E-5	93	75-125		D
Sodium	0.497 D	0.5	mg/L	0.500	-0.0338	106	75-125		D
Thallium	0.496 D	0.01	mg/L	0.500	-0.000413	99	75-125		D
Vanadium	0.458 D	0.1	mg/L	0.500	0.00498	91	75-125		D
Zinc	0.499 D	0.0200	mg/L	0.500	-0.00874	102	75-125		D

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**
*Batch 6E16002 - EPA 7470A*

<b>Blank (6E16002-BLK1)</b>	Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:41								
Mercury	0.11	U	0.20	ug/L					
<b>LCS (6E16002-BS1)</b>	Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:44								
Mercury	5.42		0.20	ug/L	5.00	108	93-111		
<b>Matrix Spike (6E16002-MS1)</b>	Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:51								
Mercury	5.91		0.20	ug/L	5.00	0.11	U	118	85-115
<b>Matrix Spike Dup (6E16002-MSD1)</b>	Prepared: 05/16/2006 13:03 Analyzed: 05/17/2006 09:55								
Mercury	5.82		0.20	ug/L	5.00	0.11	U	116	85-115
								2	12

**Classical Chemistry Parameters - Quality Control**
*Batch 6E11008 - Default Prep GenChem*

<b>Blank (6E11008-BLK1)</b>	Prepared: 05/11/2006 12:13 Analyzed: 05/11/2006 19:04						
Nitrate as N	0.008	U	0.050	mg/L			
Nitrite as N	0.007	U	0.050	mg/L			
Chloride	0.76	I	1.00	mg/L			
<b>LCS (6E11008-BS1)</b>	Prepared: 05/11/2006 12:13 Analyzed: 05/11/2006 19:27						
Nitrate as N	4.62		0.050	mg/L	5.00	92	90-110
Nitrite as N	4.78		0.050	mg/L	5.00	96	90-110
Chloride	254		1.00	mg/L	250	102	90-110
<b>Matrix Spike (6E11008-MS1)</b>	Prepared: 05/11/2006 12:13 Analyzed: 05/11/2006 19:50						
Nitrate as N	4.59		0.050	mg/L	5.10	0.008	U
Nitrite as N	4.86		0.050	mg/L	5.10	0.007	U
Chloride	256		1.00	mg/L	255	0.696	100
<b>Matrix Spike Dup (6E11008-MSD1)</b>	Prepared: 05/11/2006 12:13 Analyzed: 05/11/2006 20:13						
Nitrate as N	4.54		0.050	mg/L	5.10	0.008	U
Nitrite as N	4.84		0.050	mg/L	5.10	0.007	U
Chloride	256		1.00	mg/L	255	0.696	100

*Batch 6E11014 - Default Prep GenChem*

<b>Blank (6E11014-BLK1)</b>	Prepared: 05/11/2006 16:06 Analyzed: 05/16/2006 09:40						
Biochemical Oxygen Demand	2	U	2	mg/L			
<b>LCS (6E11014-BS1)</b>	Prepared: 05/11/2006 16:06 Analyzed: 05/16/2006 09:40						
Biochemical Oxygen Demand	184		2	mg/L	198	93	82-118
<b>Duplicate (6E11014-DUP1)</b>	Prepared: 05/11/2006 16:06 Analyzed: 05/16/2006 09:40						
Biochemical Oxygen Demand	2		2	mg/L	2	U	25

*Batch 6E12005 - Default Prep GenChem*

<b>Blank (6E12005-BLK1)</b>	Prepared: 05/12/2006 13:16 Analyzed: 05/15/2006 12:55						
Total Dissolved Solids	10	U	10	mg/L			
<b>LCS (6E12005-BS1)</b>	Prepared: 05/12/2006 13:16 Analyzed: 05/15/2006 12:55						
Total Dissolved Solids	294		10	mg/L	300	98	86-118
<b>Duplicate (6E12005-DUP1)</b>	Prepared: 05/12/2006 13:16 Analyzed: 05/15/2006 12:55						
Total Dissolved Solids	398		10	mg/L	414	4	25

*Batch 6E12020 - Default Prep GenChem*

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
<b>Classical Chemistry Parameters - Quality Control</b>										
<i>Batch 6E12020 - Default Prep GenChem</i>										
<b>Blank (6E12020-BLK1)</b>										
Total Kjeldahl Nitrogen	0.04	U	0.05	mg/L						
<b>Blank (6E12020-BLK2)</b>										
Total Kjeldahl Nitrogen	0.04	U	0.05	mg/L						
<b>LCS (6E12020-BS1)</b>										
Total Kjeldahl Nitrogen	2.55		0.05	mg/L	2.50		102	90-110		
<b>LCS (6E12020-BS2)</b>										
Total Kjeldahl Nitrogen	2.50		0.05	mg/L	2.50		100	90-110		
<b>Matrix Spike (6E12020-MS1)</b>					<b>Source: A601894-01</b>					
Total Kjeldahl Nitrogen	3.45		0.05	mg/L	2.50	0.925	101	90-110		
<b>Matrix Spike Dup (6E12020-MSD1)</b>					<b>Source: A601894-01</b>					
Total Kjeldahl Nitrogen	3.43		0.05	mg/L	2.50	0.925	100	90-110	0.6	10
<i>Batch 6E12021 - Default Prep GenChem</i>										
<b>Blank (6E12021-BLK1)</b>										
Phosphorus	0.02	U	0.03	mg/L						
<b>LCS (6E12021-BS1)</b>										
Phosphorus	2.43		0.03	mg/L	2.50		97	87-114		
<b>Matrix Spike (6E12021-MS1)</b>					<b>Source: A601894-01</b>					
Phosphorus	2.49		0.03	mg/L	2.50	0.0493	98	74-121		
<b>Matrix Spike Dup (6E12021-MSD1)</b>					<b>Source: A601894-01</b>					
Phosphorus	2.51		0.03	mg/L	2.50	0.0493	98	74-121	0.8	11
<i>Batch 6E15002 - Default Prep GenChem</i>										
<b>Blank (6E15002-BLK1)</b>										
Total Suspended Solids	3	U	3	mg/L						
<b>LCS (6E15002-BS1)</b>										
Total Suspended Solids	85.0		3	mg/L	80.0		106	82-119		
<b>Duplicate (6E15002-DUP1)</b>					<b>Source: A602284-07</b>					
Total Suspended Solids	4.00		3	mg/L	4.00				0	25
<i>Batch 6E15003 - NO PREP</i>										
<b>Blank (6E15003-BLK1)</b>										
Total Dissolved Solids	10	U	10	mg/L						
<b>LCS (6E15003-BS1)</b>										
Total Dissolved Solids	306		10	mg/L	300		102	86-118		
<b>Duplicate (6E15003-DUP1)</b>					<b>Source: A602138-05</b>					
Total Dissolved Solids	332		10	mg/L	338				2	25
<i>Batch 6E16003 - NO PREP</i>										
<b>Blank (6E16003-BLK1)</b>										
Chemical Oxygen Demand	7	U	10	mg/L						
<b>LCS (6E16003-BS1)</b>										
Chemical Oxygen Demand	510		10	mg/L	500		102	90-110		
<b>Matrix Spike (6E16003-MS1)</b>					<b>Source: A602284-07</b>					

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
<b>Classical Chemistry Parameters - Quality Control</b>										
<i>Batch 6E16003 - NO PREP</i>										
Matrix Spike (6E16003-MS1) Continued		Source: A602284-07			Prepared: 05/16/2006 10:28 Analyzed: 05/16/2006 14:30					
Chemical Oxygen Demand	538	10	mg/L	500	13.0	105	90-110			
Matrix Spike Dup (6E16003-MSD1)		Source: A602284-07			Prepared: 05/16/2006 10:28 Analyzed: 05/16/2006 14:30					
Chemical Oxygen Demand	539	10	mg/L	500	13.0	105	90-110	0.2	20	
<i>Batch 6E16009 - NO PREP</i>										
Blank (6E16009-BLK1)					Prepared: 05/16/2006 13:15 Analyzed: 05/16/2006 18:28					
Total Alkalinity	4 U	10	mg/L							
LCS (6E16009-BS1)					Prepared: 05/16/2006 13:15 Analyzed: 05/16/2006 18:29					
Total Alkalinity	240	10	mg/L	250		96	90-110			
Matrix Spike (6E16009-MS1)		Source: A602131-01			Prepared: 05/16/2006 13:15 Analyzed: 05/16/2006 18:31					
Total Alkalinity	266	10	mg/L	250	26.5	96	80-119			
Matrix Spike Dup (6E16009-MSD1)		Source: A602131-01			Prepared: 05/16/2006 13:15 Analyzed: 05/16/2006 18:33					
Total Alkalinity	266	10	mg/L	250	26.5	96	80-119	0	10	
<i>Batch 6E16016 - NO PREP</i>										
Blank (6E16016-BLK1)					Prepared: 05/16/2006 00:00 Analyzed: 05/17/2006 15:09					
Total Organic Carbon	0.3 U	1	mg/L							
LCS (6E16016-BS1)					Prepared: 05/16/2006 00:00 Analyzed: 05/17/2006 15:09					
Total Organic Carbon	27.0	1	mg/L	40.0		68	63-142			
Matrix Spike (6E16016-MS1)		Source: A602145-04			Prepared: 05/16/2006 00:00 Analyzed: 05/17/2006 15:09					
Total Organic Carbon	46.4 QR-02	1	mg/L	40.0	0.3 U	116	69-132			QR-02
Matrix Spike Dup (6E16016-MSD1)		Source: A602145-04			Prepared: 05/16/2006 00:00 Analyzed: 05/17/2006 15:09					
Total Organic Carbon	36.7 QR-02	1	mg/L	40.0	0.3 U	92	69-132	23	16	QR-02
<i>Batch 6E17006 - Default Prep GenChem</i>										
Blank (6E17006-BLK1)					Prepared & Analyzed: 05/17/2006					
Total Alkalinity	2 U	2	mg/L							
LCS (6E17006-BS1)					Prepared & Analyzed: 05/17/2006					
Total Alkalinity	119	2	mg/L	125		95	80-120			
Matrix Spike (6E17006-MS1)		Source: A602284-06			Prepared & Analyzed: 05/17/2006					
Total Alkalinity	182	2	mg/L	125	62.6	96	79-121			
Matrix Spike Dup (6E17006-MSD1)		Source: A602284-06			Prepared & Analyzed: 05/17/2006					
Total Alkalinity	179	2	mg/L	125	62.6	93	79-121	2	6	
<i>Batch 6E18007 - NO PREP</i>										
Blank (6E18007-BLK1)					Prepared: 05/18/2006 10:23 Analyzed: 05/18/2006 12:41					
Ammonia as N	0.003 U	0.02	mg/L							
LCS (6E18007-BS1)					Prepared: 05/18/2006 10:23 Analyzed: 05/18/2006 12:47					
Ammonia as N	1.01	0.02	mg/L	1.00		101	90-110			
Matrix Spike (6E18007-MS1)		Source: A602284-01			Prepared: 05/18/2006 10:23 Analyzed: 05/18/2006 12:49					
Ammonia as N	1.01	0.02	mg/L	1.00	0.003 U	101	90-110			
Matrix Spike Dup (6E18007-MSD1)		Source: A602284-01			Prepared: 05/18/2006 10:23 Analyzed: 05/18/2006 12:51					
Ammonia as N	0.990	0.02	mg/L	1.00	0.003 U	99	90-110	2	10	

NOTES AND DEFINITIONS

- U Analyte included in the analysis, but not detected
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- I Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- D Data reported from a dilution



## ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 211  
Jacksonville, FL 32216-6069  
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way  
Cary, NC 27513  
(919) 677-1569 Fax (919) 677-9846

Client Name Address City/ST/Zip	Project Number	Requested Analyses										Requested Turnaround Times		
		Standard					Expedited					Lab Workorder #	Date Due	Comments
TT/Hartman & Associates, Inc.	99-0331-029											AB00784	5-11-04	Note : Rush requests subject to acceptance by the facility
201 S. Pine St., Suite 1000														
Orlando, FL 32801														
Tel	407-839-3955													
Sampler(s) Name, Affiliation (Print)	H. L. Claytor													
Sampler(s) Signature														
Reporting Contact	Miguel Garcia													
Billing Contact														
Facility # (if required)														
Preservation (See Codes) (Combine as necessary)														
Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix	Total # of Containers	Sample Comments								
(see codes)			(see codes)	(see codes)										
1 MW-1	5/11/06	1118	G	GW	9	X	X	X	X	X	X	X		
2 MW-5A	5/10/06	1640	G	GW	9	X	X	X	X	X	X	X		
3 MW-5B		1546	G	GW	8	X	X	X	X	X	X	X		
4 MW-6		1304	G	GW	9	X	X	X	X	X	X	X		
5 MW-7A		1354	G	GW	9	X	X	X	X	X	X	X		
6 MW-7B		1003	G	GW	9	X	X	X	X	X	X	X		
7 Pond 1	5/11/06	1303	G	SW	6									
8 Temp Pond		1251	G	SW	2									
<- Total # of Containers														
Sample Kit Prepared By	CP	Date/Time	4/20/06 10:00	Relinquished By	HSA	Received By	J. D. Hayes	Date/Time	4/20/06 10:00	Received By	J. D. Hayes	Date/Time		
Comments														
Cooler #s & Temps on Receipt	307, 00	Temp	52, 0	Condition Upon Receipt	Acceptable									

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

Notes: 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

Standard

Expedited

Due

/ /

Lab Workorder #

AB00784

Date Due

5-11-04

Comments

Unacceptable



## ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 211  
Jacksonville, FL 32216-6069  
(904) 296-3007 Fax (904) 296-6210

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

Client Name <b>TJ Hartman &amp; Assoc., Inc.</b>		Project Number <b>99-0331-029</b>	Project Name/Desc <b>Entergy Boardwalk</b>		PO # / Billing Info <b>402-839-3955 402-839-2066</b>		Reporting Contact <b>H.L. Clayton</b>		Billing Contact <b>Signature</b>		Sampler(s) Name, Affiliation (Print) <b>Miguel Garcia</b>		Facility # (if required)								
Comments: <b>8360 APP I Low TESI Bicarb, Chloride, Nitrate, Total Ammonium, Total Sulfate, Total Fe, Hg, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Zn, Mn, Al,</b>																					
Preservation (See Codes) (Combine as necessary)																					
Preservation (See Codes) (Combine as necessary)																					
Item #	Sample ID (Field Identification)	Collection Date	Time	Comp / Grab	Matrix	Total # of Containers	Matrix (see codes)	Total # of Containers	Matrix	Total # of Containers	Matrix	Total # of Containers	Matrix	Total # of Containers	Sample Comments						
1	MW-1B	5/18/06	1108	G	GW	9	X	X	X	X	X	X	X	X							
2	MW-8B	1507	6	GW	9	X	X	X	X	X	X	X	X	X							
3	MW-9B	1404	G	GW	9	X	X	X	X	X	X	X	X	X							
4	MW-10B	1245	G	GW	9	X	X	X	X	X	X	X	X	X							
5	Supply Well	1622	G	GW	9	X	X	X	X	X	X	X	X	X							
6	E&B	0924	G	O	9	X	X	X	X	X	X	X	X	X							
DI Water																					
<- Total # of Containers																					
Sample Kit Prepared By <b>CP</b>		Date/Time <b>4/20/06 10:00</b>	Relinquished By <b>J. Sic Ponte</b>		Date/Time <b>4/20/06 10:00</b>	Received By <b>ENCO</b>		Date/Time <b>4/20/06 10:00</b>	Relinquished By <b>J. Sic Ponte</b>		Date/Time <b>4/20/06 10:00</b>	Received By <b>ENCO</b>		Date/Time <b>4/20/06 10:00</b>	Relinquished By <b>J. Sic Ponte</b>		Date/Time <b>4/20/06 10:00</b>	Received By <b>ENCO</b>		Date/Time <b>4/20/06 10:00</b>	
Comments <b>STm-10 20</b>																					
Cooler #s & Temps on Receipt																					
Condition Upon Receipt																					
Acceptable																					
Unacceptable																					

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

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

Note : Rush requests subject to acceptance by the facility

Page **1** of **1**

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

Standard

Expedited

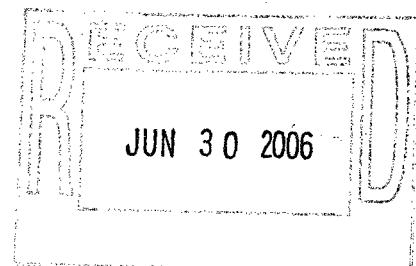
Due **/ /**

Lab Workorder

**Ab01814**

Tuesday, June 27, 2006

Hartman & Assoc., Inc. (HA005)  
Attn: Miguel Garcia  
201 E. Pine St. Suite 1000  
Orlando, FL 32801



**RE: Project Number: 99.0331.029, Project Name/Desc: Enterprise Road Landfill  
ENCO Workorder: A602961**

Dear Miguel Garcia,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, June 20, 2006.

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald Wambles".

Ronald Wambles  
Project Manager

Enclosure(s)

Date: June 27, 2006

Client: Hartman & Associates

Project: Enterprise Road Landfill

Lab ID: A602961

### Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

### Quality Control Samples

None

### Quality Control Remarks

None

### Other Comments

Original metals analysis of samples associated with this project was performed by ICP-MS EPA Method 6020. The reported results associated with this project indicated vanadium concentrations may exceed the groundwater maximum contaminant level specified in FAC 62-777. All samples associated with this project were re-analyzed for vanadium via EPA Method 7911. The results of the re-analysis are included in the attached report. Values for vanadium were substantially lower or non-detect in the re-analysis. After further review of the original 6020 results instrument carryover is the suspected origin of the elevated levels of vanadium.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative. Should there be any questions regarding this package, please feel free to contact the undersigned for additional information.

Sincerely,

Matthew Foti, Ph.D.  
Laboratory Manager

**SAMPLE DETECTION SUMMARY**

Client ID: MW-5B

Lab ID: A602961-03

Analyte

Results/Qual      MRL      Units      Method

Vanadium

9 I      10      ug/L      EPA 7911

Client ID: MW-7A

Lab ID: A602961-05

Analyte

Results/Qual      MRL      Units      Method

Vanadium

2 I      10      ug/L      EPA 7911

Client ID: MW-7B

Lab ID: A602961-06

Analyte

Results/Qual      MRL      Units      Method

Vanadium

13      10      ug/L      EPA 7911

SAMPLE SUMMARY/LABORATORY CHRONICLE**Client ID:** MW-1**Lab ID:** A602961-01**Sampled:** 05/11/06 11:18**Received:** 06/20/06 12:19

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/07/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-5A**Lab ID:** A602961-02**Sampled:** 05/10/06 16:40**Received:** 06/20/06 12:19

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/06/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-5B**Lab ID:** A602961-03**Sampled:** 05/10/06 15:46**Received:** 06/20/06 12:19

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/06/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-6**Lab ID:** A602961-04**Sampled:** 05/10/06 13:04**Received:** 06/20/06 12:19

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/06/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-7A**Lab ID:** A602961-05**Sampled:** 05/10/06 13:54**Received:** 06/20/06 12:19

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/06/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-7B**Lab ID:** A602961-06**Sampled:** 05/10/06 10:03**Received:** 06/20/06 12:19

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/06/06	06/26/06 10:00	6/26/2006 17:00



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## ANALYTICAL REPORT

Sample ID: MW-1 Project: Enterprise Road Landfill  
Lab #: A602961-01 Work Order #: A602961  
Matrix: Ground Water

### Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	2 U	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-5A  
Lab #: A602961-02

Project: Enterprise Road Landfill  
Work Order #: A602961  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	2 U	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-5B  
Lab #: A602961-03

Project: Enterprise Road Landfill  
Work Order #: A602961  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	9 I	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-6  
Lab #: A602961-04

Project: Enterprise Road Landfill  
Work Order #: A602961  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	2 U	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-7A  
Lab #: A602961-05

Project: Enterprise Road Landfill  
Work Order #: A602961  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	2 I	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-7B  
Lab #: A602961-06

Project: Enterprise Road Landfill  
Work Order #: A602961  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	13	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**QUALITY CONTROL**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	--------------

**Metals by EPA 6000/7000 Series Methods - Quality Control****Batch 6F26015 - EPA 3020A****Blank (6F26015-BLK1)**

Prepared: 06/26/2006 10:00 Analyzed: 06/26/2006 17:00

Vanadium 2 U 10 ug/L

**LCS (6F26015-BS1)**

Prepared: 06/26/2006 10:00 Analyzed: 06/26/2006 17:00

Vanadium 55.5 10 ug/L 60.0 92 85-127 200

**Matrix Spike (6F26015-MS1)**

Source: A603055-09 Prepared: 06/26/2006 10:00 Analyzed: 06/26/2006 17:00

Vanadium 57.7 10 ug/L 60.0 2.20 92 75-130 15

**Matrix Spike Dup (6F26015-MSD1)**

Source: A603055-09 Prepared: 06/26/2006 10:00 Analyzed: 06/26/2006 17:00

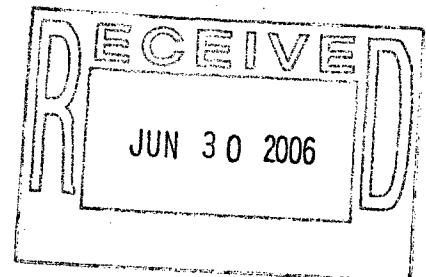
Vanadium 60.6 10 ug/L 60.0 2.20 97 75-130 5 15

### **NOTES AND DEFINITIONS**

- U** Analyte included in the analysis, but not detected
- I** Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Tuesday, June 27, 2006

Hartman & Assoc., Inc. (HA005)  
Attn: Miguel Garcia  
201 E. Pine St. Suite 1000  
Orlando, FL 32801



**RE: Project Number: 99.0331.029, Project Name/Desc: Enterprise Road Landfill  
ENCO Workorder: A602959**

Dear Miguel Garcia,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, June 20, 2006.

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald Wambles".

Ronald Wambles  
Project Manager

Enclosure(s)

Date: June 27, 2006

Client: Hartman & Associates

Project: Enterprise Road Landfill

Lab ID: A602959

#### Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

#### Quality Control Samples

None

#### Quality Control Remarks

None

#### Other Comments

Original metals analysis of samples associated with this project was performed by ICP-MS EPA Method 6020. The reported results associated with this project indicated vanadium concentrations may exceed the groundwater maximum contaminant level specified in FAC 62-777. In addition, high levels of antimony were detected in the equipment blank. All samples associated with this project were re-analyzed for vanadium via EPA Method 7911 the equipment blank was re-analyzed for antimony via EPA Method 7041 (antimony). The results of the re-analysis are included in the attached report. Values for vanadium and antimony were substantially lower or non-detect in the re-analysis. After further review of the original 6020 results instrument carryover is the suspected origin of the elevated levels of antimony and vanadium.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative. Should there be any questions regarding this package, please feel free to contact the undersigned for additional information.

Sincerely,

Matthew Foti, Ph.D.  
Laboratory Manager

### SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID:** MW-1B

**Lab ID:** A602959-01

**Sampled:** 05/08/06 11:08

**Received:** 06/20/06 11:52

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/04/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-8B

**Lab ID:** A602959-02

**Sampled:** 05/08/06 15:07

**Received:** 06/20/06 11:52

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/04/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-9B

**Lab ID:** A602959-03

**Sampled:** 05/08/06 14:04

**Received:** 06/20/06 11:52

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/04/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** MW-10B

**Lab ID:** A602959-04

**Sampled:** 05/08/06 12:45

**Received:** 06/20/06 11:52

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/04/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** SUPPLY WELL

**Lab ID:** A602959-05

**Sampled:** 05/08/06 16:22

**Received:** 06/20/06 11:52

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7911	11/04/06	06/26/06 10:00	6/26/2006 17:00

**Client ID:** EQB

**Lab ID:** A602959-06

**Sampled:** 05/08/06 09:24

**Received:** 06/20/06 11:52

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7041	11/04/06	06/26/06 10:00	6/27/2006 11:17
EPA 7911	11/04/06	06/26/06 10:00	6/26/2006 17:00

SAMPLE DETECTION SUMMARY**Client ID: MW-1B**

Analyte

Vanadium

**Client ID: MW-8B**

Analyte

Vanadium

**Client ID: MW-9B**

Analyte

Vanadium

**Client ID: MW-10B**

Analyte

Vanadium

**Client ID: SUPPLY WELL**

Analyte

Vanadium

**Lab ID: A602959-01**

Results/Qual	MRL	Units	Method
5 I	10	ug/L	EPA 7911

**Lab ID: A602959-02**

Results/Qual	MRL	Units	Method
4 I	10	ug/L	EPA 7911

**Lab ID: A602959-03**

Results/Qual	MRL	Units	Method
3 I	10	ug/L	EPA 7911

**Lab ID: A602959-04**

Results/Qual	MRL	Units	Method
2 I	10	ug/L	EPA 7911

**Lab ID: A602959-05**

Results/Qual	MRL	Units	Method
4 I	10	ug/L	EPA 7911

ANALYTICAL REPORT

Sample ID: MW-1B  
Lab #: A602959-01

Project: Enterprise Road Landfill  
Work Order #: A602959  
Matrix: Ground Water

## Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	5 1	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-8B  
Lab #: A602959-02

Project: Enterprise Road Landfill  
Work Order #: A602959  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	4 I	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-9B  
Lab #: A602959-03

Project: Enterprise Road Landfill  
Work Order #: A602959  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	3 I	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: MW-10B  
Lab #: A602959-04

Project: Enterprise Road Landfill  
Work Order #: A602959  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	2 I	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: SUPPLY WELL  
Lab #: A602959-05

Project: Enterprise Road Landfill  
Work Order #: A602959  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Vanadium	7440-62-2	4 I	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

**ANALYTICAL REPORT**

Sample ID: EQB  
Lab #: A602959-06

Project: Enterprise Road Landfill  
Work Order #: A602959  
Matrix: Ground Water

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

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	1 U	1	5	ug/L	EPA 7041	EPA 3020A	6F26015
Vanadium	7440-62-2	2 U	2	10	ug/L	EPA 7911	EPA 3020A	6F26015

## QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
<b>Metals by EPA 6000/7000 Series Methods - Quality Control</b>										
<i>Batch 6F26015 - EPA 3020A</i>										
<b>Blank (6F26015-BLK1)</b> Prepared: 06/26/2006 10:00 Analyzed: 06/27/2006 11:17										
Antimony	1 I	5	ug/L							
Vanadium	2 U	10	ug/L							
<b>LCS (6F26015-BS1)</b> Prepared: 06/26/2006 10:00 Analyzed: 06/27/2006 11:17										
Antimony	35.1	5	ug/L	30.0	117	81-124				200
Vanadium	55.5	10	ug/L	60.0	92	85-127				200
<b>Matrix Spike (6F26015-MS1)</b> Source: A603055-09      Prepared: 06/26/2006 10:00 Analyzed: 06/27/2006 11:17										
Antimony	35.8	5	ug/L	30.0	1 U	119	45-152			15
Vanadium	57.7	10	ug/L	60.0	2.20	92	75-130			15
<b>Matrix Spike Dup (6F26015-MSD1)</b> Source: A603055-09      Prepared: 06/26/2006 10:00 Analyzed: 06/27/2006 11:17										
Antimony	35.3	5	ug/L	30.0	1 U	118	45-152	1		15
Vanadium	60.6	10	ug/L	60.0	2.20	97	75-130	5		15
<b>Post Spike (6F26015-PS1)</b> Source: A603055-05      Prepared: 06/27/2006 06:00 Analyzed: 06/27/2006 11:17										
Antimony	0.0239	0.005	mg/L	0.0250	0.000300	94	85-115			200

**NOTES AND DEFINITIONS**

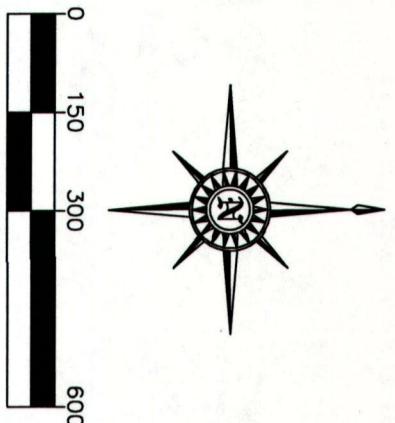
- U Analyte included in the analysis, but not detected
- I Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

## APPENDIX C

CD WITH VALIDATOR  
FILES PROVIDED SEPARATELY



## LEGEND



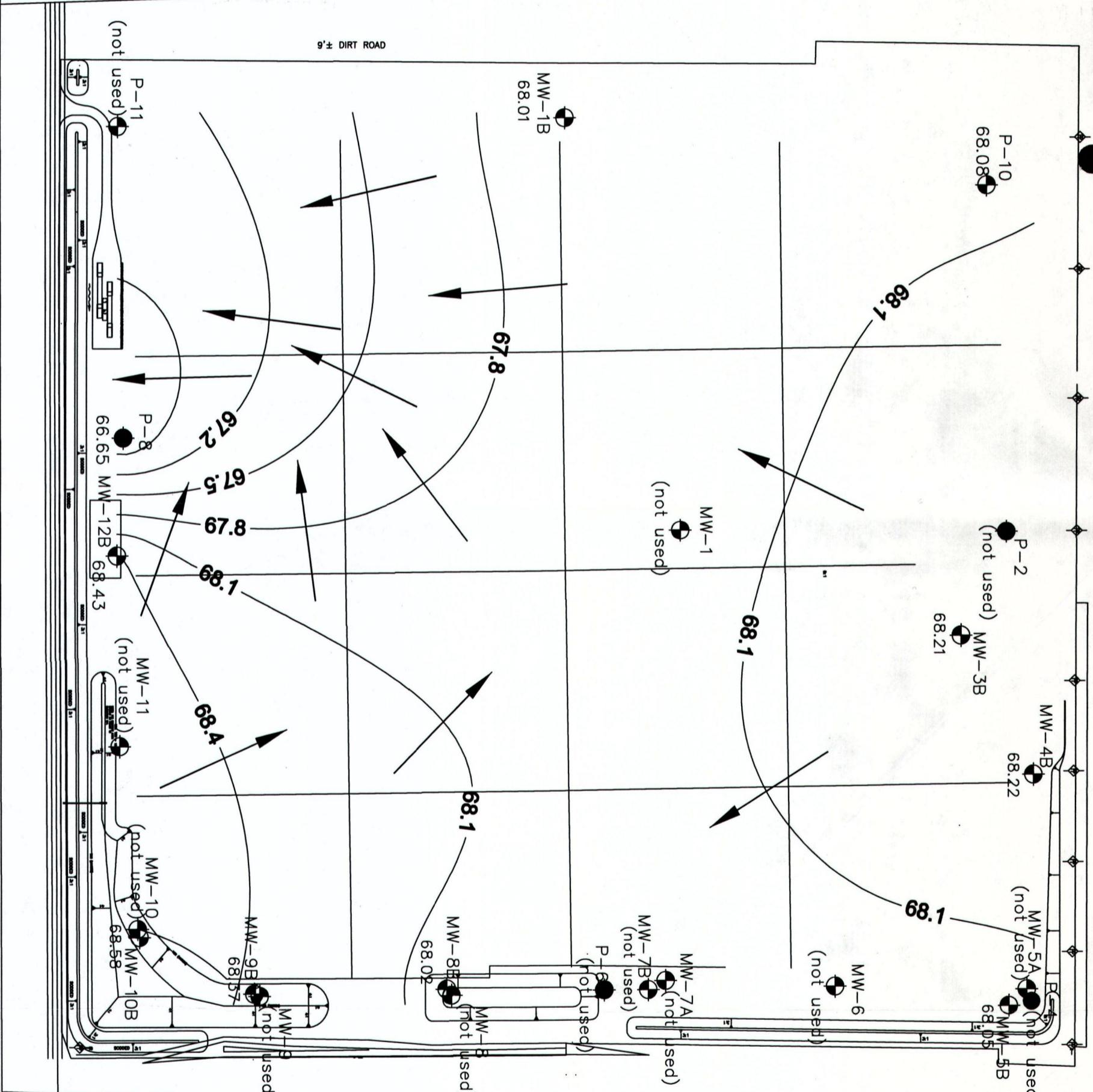
Mw-

MONITOR WELL LOCATION  
68.01 WATER LEVEL, (ft. NGVD) 5/11/06

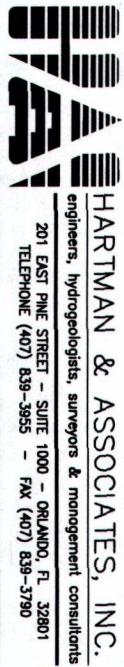
**-67.2-** GROUNDWATER CONTOUR  
ELEVATION (ft. NGVD)  
CONTOUR INTERVAL = 0.3 ft.

P-5 • PIEZOMETER LOCATION  
ESTIMATED GROUNDWATER FLOW DIRECTION

2000-0000

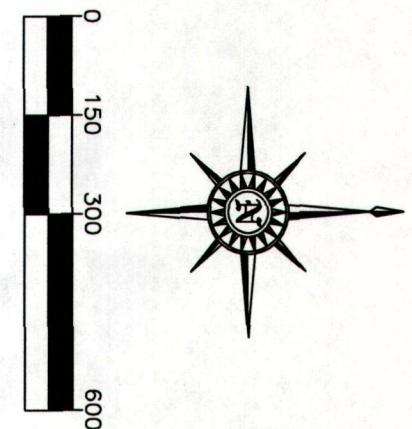


**GROUNDWATER CONTOUR MAP  
FLORIDAN AQUIFER – MAY 11, 2006  
ENTERPRISE RECYCLING AND DISPOSAL FACILITY  
DADE CITY, FLORIDA**



**HARTMAN & ASSOCIATES, INC.**  
engineers, hydrogeologists, surveyors & management consultants  
**201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801**  
**TELEPHONE (407) 839-3955 - FAX (407) 839-3790**

## LEGEND



11

 MONITOR WELL LOCATION  
69.99 WATER LEVEL, (ft. NGVD) 5/11/06

-68.9- GROUNDWATER CONTOUR  
ELEVATION (ft. NGVD)  
CONTOUR INTERVAL = 0.3 ft.

P-5  
PIEZOMETER LOCATION  
ESTIMATED GROUNDWATER  
FLOW DIRECTION  
— — —  
INFERRED GROUNDWATER  
CONTOUR ELEVATION

8'1 DIRT ROAD

Detailed description of the figure:

- Grid:** A rectangular grid covers the entire area.
- Facility Boundary:** A thick black line outlines the facility's perimeter.
- Monitoring Wells (MW):**
  - MW-1B (not used)
  - MW-11 (not used)
  - MW-8 (not used)
  - MW-12A (not used)
  - MW-11 (DRY)
  - MW-10A (not used)
  - MW-9B (not used)
  - MW-8E (not used)
  - MW-8A (DRY)
  - MW-7B (not used)
  - MW-7A (not used)
  - MW-6 (not used)
  - MW-5A (not used)
  - MW-4A (not used)
  - MW-5B (not used)
  - MW-3A (not used)
  - MW-2 (not used)
- Piezometers (P):**
  - P-11 (not used)
  - P-8 (not used)
  - P-10 (not used)
  - P-9 (not used)
  - P-8 (not used)
  - P-7 (not used)
  - P-6 (not used)
  - P-5 (not used)
  - P-4 (not used)
  - P-3 (not used)
  - P-2 (not used)
- Other Labels:**
  - DIRT ROAD
  - ESTIMATED EXTENT OF SURFICIAL AQUIFER
  - TP 68.3
  - 68.15
  - 68.65
  - 68.80
  - 69.5
  - 69.6
  - 69.9
  - 69.95
  - 69.99
  - 68.9
  - 68.6
  - 68.3
  - 68.2
  - 68.1
  - 67.70
  - 68.6

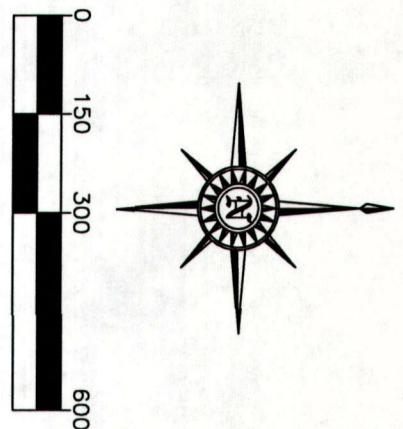
**GROUNDWATER CONTOUR MAP  
SURFICIAL AQUIFER – May 11, 2006  
ENTERPRISE RECYCLING AND DISPOSAL FACILITY  
DADE CITY, FLORIDA**



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engineers, hydrogeologists, surveyors & management consultants

**INC.**  
**consultants**

## LEGEND

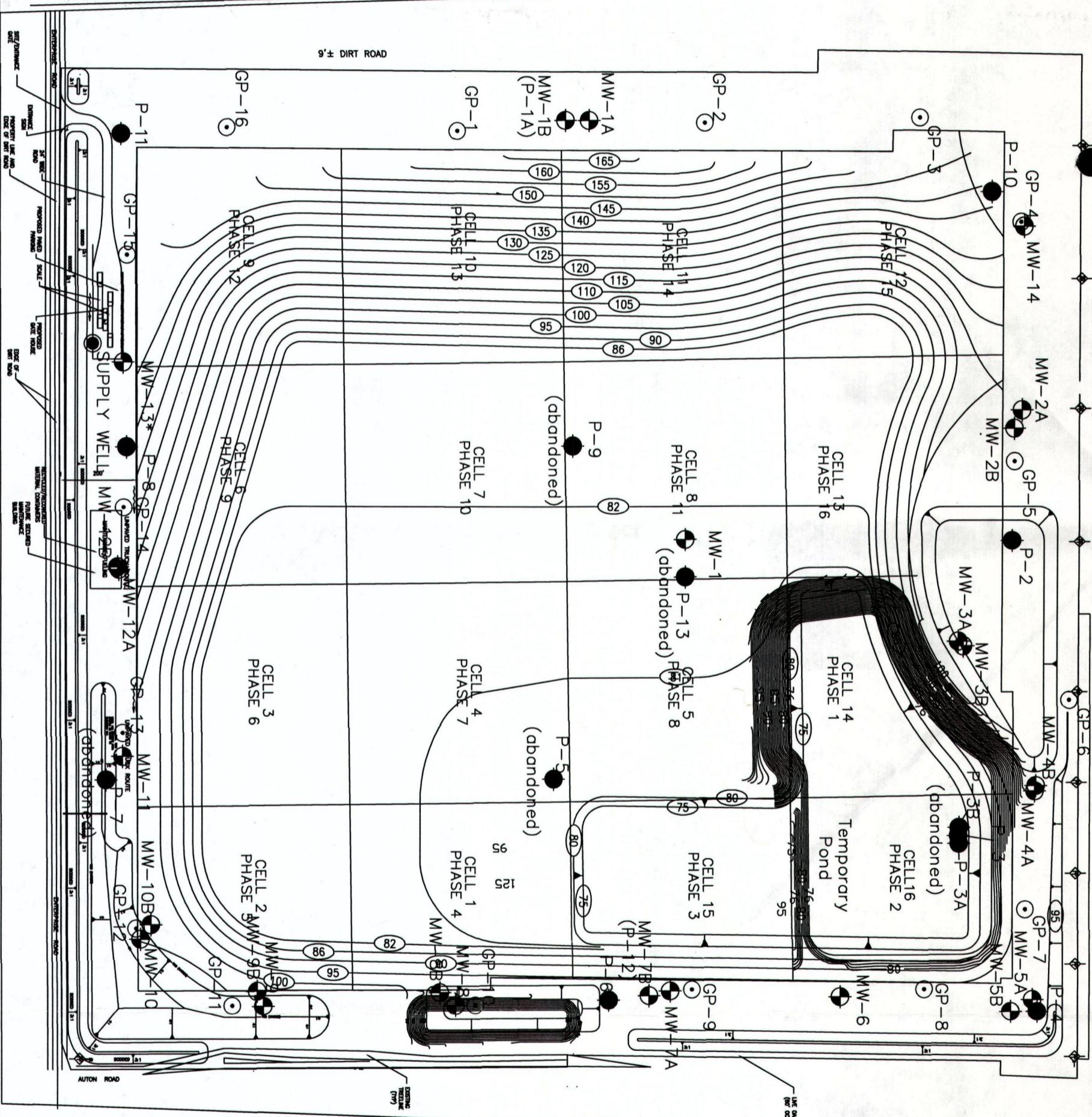


- MONITOR WELL LOCATION  
GP-1 GASPROBE LOCATION

- PIEZOMETER WELL LOCATION**

- SUPPLY MELL

9'± DIRT ROAD



**WELL LOCATION MAP  
ENTERPRISE ROAD RECYCLING AND DISPOSAL FACILITY  
DADE CITY, FLORIDA**