



TETRA TECH HAI

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July 12, 2006

Via UPS Overnight

252513
GW
SW
Dept. of Environmental
Protection

JUL 13 2006

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

Southwest District

**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**

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, BOD₅, 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.



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

 7-12-06
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
Date


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

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

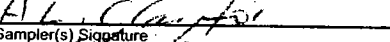
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way

Cary, NC 27513

(919) 677-1669 Fax (919) 677-9846

Page 1 of 1

Client Name IT/Hartman & Assoc, Inc		Project Number 99-0331-029		Requested Turnaround Times Standard	
Address 2015 Pine St, Suite 1000		Project Name/Desc Enterprise Road LA 411		Note: Rush requests subject to acceptance by the facility	
City/ST/Zip Glendale, CA 91201		PO # / Billing Info		Requested Analyses Ascorbic Acid, Biotin, Calcium, Cholesterol, Cobalamin, Folate, Glucose, Hemoglobin, Iron, Magnesium, Nitrate, Nitrite, Phosphorus, Potassium, Sodium, Total Protein, Total Vitamin C, Vitamin A, Vitamin B1, Vitamin B2, Vitamin B6, Vitamin B12, Vitamin C, Vitamin E, Vitamin K, Zinc	
Tel 407-530-3955		Reporting Contact Miguel Garcia		Due 1/1	
Fax 407-639-2000		Billing Contact		Lab Workorder	
Sampler(s) Name, Affiliation (Print) HL Campbell		Facility # (if required)			
Sampler(s) Signature 					

[illegible]

Sample Kit Prepared By <i>(P 4/20/06 10:00)</i>	Date/Time <i>4/20/06 10:00</i>	Relinquished By <i>Kisa Borta</i>	Date/Time <i>4/20/06 10:00</i>	Received By <i>[Signature]</i>	Date/Time <i>4/20/06 10:00</i>
Comments	Relinquished By <i>[Signature]</i>	Date/Time <i>5/11/06 14:15</i>	Received By <i>[Signature]</i>	Date/Time <i>5/11/06 14:15</i>	
	Relinquished By <i>[Signature]</i>	Date/Time <i>5/11/06 14:15</i>	Received By <i>[Signature]</i>	Date/Time <i>5/11/06 14:15</i>	
	Cooler #'s & Temps on Receipt				Condition Upon Receipt <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable

Matrix : GW-Groundwater SO-Soil SF-Sediment SW-Surface Water WM-Watermeter A-Air C-Clean

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

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

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

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



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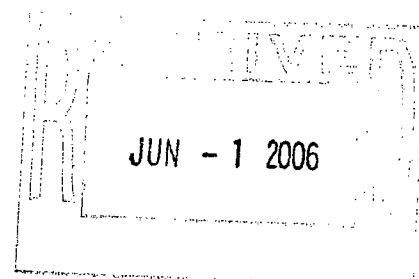
Thursday, May 25, 2006

Hartman & Assoc., Inc. (HA005)

Attn: Miguel Garcia

201 E. Pine St. Suite 1000

Orlando, FL 32801



EXCEPTS ONLY FOR
POND 1 &
TEMP POND

**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)

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

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

Lab ID: A602284-06

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

Lab ID: A602284-07

Analyte	Results/Qual	MRL	Units	Method
Bicarbonate as CaCO3	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

Lab ID: A602284-08

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



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ANALYTICAL REPORT

Sample ID: Pond 1
Lab #: A602284-07

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

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Mercury	7439-97-6	0.11 U	0.11	0.20	ug/L	EPA 245.1	EPA 7470A	6E16002

Metals by EPA 200 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Copper	7440-50-8	20 U, D	20	100	ug/L
Iron	7439-89-6	40 U, D	40	500	ug/L
Sodium	7440-23-5	2230 D, I	190	5000	ug/L
Zinc	7440-66-6	100 U, D	100	200	ug/L

ANALYTICAL REPORT

Sample ID: Pond 1
Lab #: A602284-07

Project: Enterprise Road Landfill
Work Order #: A602284
Matrix: Surface 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 ₃		59	4	10	mg/L	SM 4500	[CALC]	[CALC]
Biochemical Oxygen Demand	NA	2	2	2	mg/L	EPA 405.1	Default Prep GenChem	6E11014
Chemical Oxygen Demand	NA	13	7	10	mg/L	EPA 410.4	NO PREP	6E16003
Nitrate as N	NA	0.214	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		0.214	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
Phosphorus	7723-14-0	0.4	0.02	0.03	mg/L	EPA 365.4	Default Prep GenChem	6E12021
Total Alkalinity	NA	59	4	10	mg/L	EPA 310.2	NO PREP	6E16009
Total Dissolved Solids	NA	188	10	10	mg/L	EPA 160.1	NO PREP	6E15003
Total Kjeldahl Nitrogen	NA	0.61	0.04	0.05	mg/L	EPA 351.2	Default Prep GenChem	6E12020
Total Organic Carbon	NA	7	0.3	1	mg/L	EPA 415.1	NO PREP	6E16016
Total Suspended Solids	NA	4	3	3	mg/L	EPA 160.2	Default Prep GenChem	6E15002
Unionized ammonia as N	NA	0.003 U	0.003	0.02	mg/L	EPA 350.1	NO PREP	6E19016

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Nitrate/Nitrite as N		0.214	0.015	0.100	mg/L
Nitrogen Total		0.824	0.055	0.150	mg/L



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ANALYTICAL REPORT

Sample ID: Temp Pond
Lab #: A602284-08

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

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Chemical Oxygen Demand	NA	29	7	10	mg/L	EPA 410.4	NO PREP	6E16003
Nitrate as N	NA	0.224	0.008	0.050	mg/L	EPA 300.0	Default Prep GenChem	6E11008
Nitrate/Nitrite as N		0.224	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

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

Page 1 of 1

Client Name TT/Hartman & Assoc., Inc		Project Number 99.0331.029		Requested Analyses										Requested Turnaround Times	
Address 201 E. Pine St, Suite 1000		Project Name/Desc Enterprise Road Landfill		Bicarb, Chloride, Nitrate Nitrate as N, TDS 8260 App 2 Low 8011 EOB/08CP Ammonia SBT Fe, Hg, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, U, Zn, Ni 600, Chlorophyll A, Total Fe, Hg, Cu, Na, Zn, Al, K, B, Cd, Ni, TSS, Nitrate, Nitrite as N, TP, TN, COB, Phos, Coli/F Nitrate/Nitrite as N, COB										Note: Rush requests subject to acceptance by the facility	
City/ST/Zip Orlando, FL 32801		PO # / Billing Info												<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited	
Tel 407-839-3955		Fax 407-839-2666												Due ____/____/____	
Sampler(s) Name, Affiliation (Print) H.L. Clamps		Reporting Contact Miguel Garcia		Lab Workorder 1602284											
Sampler(s) Signature 		Billing Contact													
Facility # (if required)															

[illegible]

Sample Kit Prepared By CP	Date/Time 4/20/06 10:00	Relinquished By Lisa Pente	Date/Time 4/20/06 10:00	Received By <i>[Signature]</i>	Date/Time 4/20/06 10:00
Comments		Relinquished By <i>[Signature]</i>	Date/Time 5/11/06 1445	Received By <i>[Signature]</i>	Date/Time 5/11/06 1445
		Relinquished By <i>[Signature]</i>	Date/Time	Received By <i>[Signature]</i>	Date/Time 5/11/06 1445
	Cooler #'s & Temps on Receipt 307 0° 152 0°				Condition Upon Receipt ✓ Acceptable ___ Unacceptable

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

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

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

May 15, 2006

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824

Attn: RONALD WAMBLES

Work Order: OPE0206
Project Name: GENERAL SUBCONTRACT
Project Number: A602284
Date Received: 05/11/06

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME

POND 1

OPE0206-01

05/11/06 13:03

Samples were received into laboratory at a temperature of 3.40 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

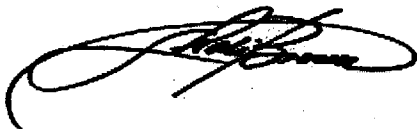
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Results are reported on a wet weight basis unless otherwise noted

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

Florida Certification Number: E83012

Approved By:



TestAmerica Analytical - Orlando
Shali Brown For Holli Raffington
Project Manager

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: RONALD WAMBLES

Work Order: OPE0206
Project: GENERAL SUBCONTRACT
Project Number: A602284

Sampled: 05/11/06
Received: 05/11/06

LABORATORY REPORT

Sample ID: POND 1 - Lab Number: OPE0206-01 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Microbiology											
E761792	Fecal Coliform	1080	B	CFU/100 ml	1	1	1	05/12/06 15:12	SXJ	SM 9222D	6E12016
								Prep Date: 05/11/06 17:03			

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: RONALD WAMBLES

Work Order: OPE0206
Project: GENERAL SUBCONTRACT
Project Number: A602284

Sampled: 05/11/06
Received: 05/11/06

PROJECT QUALITY CONTROL DATA

Blank

alyte	Blank Value	Q	Units	Q.C. Batch	Lab Number
Microbiology					
Fecal Coliform	1	U	CFU/100 ml	6E12016	6E12016-BLK1

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: RONALD WAMBLES

Work Order: OPE0206
Project: GENERAL SUBCONTRACT
Project Number: A602284

Sampled: 05/11/06
Received: 05/11/06

CERTIFICATION SUMMARY

TestAmerica Analytical - Orlando

Method	Matrix	Nelac	Florida
SM 9222D	Water - NonPotable	X	X

DATA QUALIFIERS AND DEFINITIONS

Results based upon colony counts outside the acceptable range.
The compound was analyzed for but not detected

ADDITIONAL COMMENTS

When insufficient sample volume is received for Matrix Spike and Matrix Spike Duplicate, Laboratory Control Spike and Laboratory Control Spike Duplicate data is used for batch QC.

TestAmerica Analytical - Orlando
Shali Brown For Holli Raffington
Project Manager

TestAmerica

ANALYTICAL TESTING CORPORATION

4310 East Anderson Road * Orlando, FL 32812 * 407-851-2560 * Fax: 407-856-0886 * 800-851-

Client: ENVIRONMENTAL CONSERVATION LABS

Project: OPE0206

Shipped By: Walk-in

Tracking Number:

Cooler Received On: 05/11/06 16:27

And Opened On (Date/time): 5/11/06 16:27

Received By: Stephanie Bull

Logged in by: Stephanie Bull

Were custody seals on the outside of cooler? YES ☐ NO ☒ If Yes # ☐ Location ☐

Were custody seals intact? YES ☐ NO ☐ N/A ☒ (no seals present)

Chain of Custody Complete? YES ☐ NO ☒ If No Discrepancy: No Chlorophylla will follow

Cooler Tempature When Opened: 3.40 Degrees Celsius

Tempature Blank Included: YES ☒ NO ☐

Packing Material: Bubblewrap ☐ NONE ☒ Other: ☐

Received on Ice: YES ☒ NO ☐ Other: ☐ Total # Of Containers: 1 # Vials 8

Any Bottles Broken? YES ☐ NO ☒ If Yes Which One(s)? ☐

Any Missing Samples? YES ☐ NO ☒ If Yes Which One(s)? ☐

pH Levels: H2SO4 <=2? ☐ HNO3 <=2? ☐ HCL <=2? ☐ NaOH >=10? ☐

Of Containers Unpreserved between 6 and 8? 1

Any Air Bubbles in VOA Vials? YES ☐ NO ☐ N/A ☒ (no VOA vials received)

Was there enough sample shipped in each container? YES ☐ NO ☒

Correct Preservatives Used? YES ☐ NO ☒ If No, please explain: N/A

Project Manager: Holli Raffington

Corrective Actions Taken

SUBCONTRACT ORDER

OPEO206

ENCO Orlando

A602284

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Test America
4310 Anderson Road
Orlando, FL 32812
Phone : (407) 851-2560
Fax: -0
Project State of Origin: FL

Analysis	Due	Expires	Laboratory ID	Comments
Pond 1	Surface Water	11-May-06 13:03		Chlorophyll-a to follow.
Coliform, Fecal	18-May-06 15:00	11-May-06 19:03		
Chlorophyll A	18-May-06 15:00	10-Jun-06 13:03		
Containers Supplied:				
ILA (A)	Sterile Bacteria Cup (F)			01

3.4°C

Released By

Date

Received By

Date

Released By

Date

Received By

Date

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



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Thursday, May 25, 2006

Hartman & Assoc., Inc. (HA005)

Attn: Miguel Garcia

201 E. Pine St. Suite 1000

Orlando, FL 32801

JUN - 7 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)

May 23, 2006

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824

Work Order: OPE0213
Project Name: GENERAL SUBCONTRACT
Project Number: A602284
Date Received: 05/12/06

Attn: RONALD WAMBLES

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
POND 1	OPE0213-01	05/11/06 13:03

Samples were received into laboratory at a temperature of 4.00 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

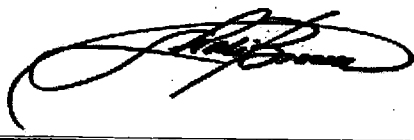
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Results are reported on a wet weight basis unless otherwise noted

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

Florida Certification Number: E83012

Approved By:



TestAmerica Analytical - Orlando
Shali Brown For Holli Raffington
Project Manager

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: RONALD WAMBLES

Work Order: OPE0213
Project: GENERAL SUBCONTRACT
Project Number: A602284

Sampled: 05/11/06
Received: 05/12/06

LABORATORY REPORT

Sample ID: POND 1 - Lab Number: OPE0213-01 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
479-61-8	Chlorophyll-a	5.30		mg/m3	0.500	0.500	1	05/17/06 09:45	MLM	SM 10200H	6E19038
Filtered Date: 05/11/2006											

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: RONALD WAMBLES

Work Order: OPE0213
Project: GENERAL SUBCONTRACT
Project Number: A602284

Sampled: 05/11/06
Received: 05/12/06

CERTIFICATION SUMMARY

TestAmerica Analytical - Orlando

Method	Matrix	Nelac	Florida
SM 10200H	Water - NonPotable	X	X

DATA QUALIFIERS AND DEFINITIONS

U The compound was analyzed for but not detected

ADDITIONAL COMMENTS

When insufficient sample volume is received for Matrix Spike and Matrix Spike Duplicate, Laboratory Control Spike and Laboratory Control Spike Duplicate data is used for batch QC.

TestAmerica

ANALYTICAL TESTING CORPORATION

4310 East Anderson Road * Orlando, FL 32812 * 407-851-2560 * Fax: 407-856-0886 * 800-851-

Client: ENVIRONMENTAL CONSERVATION LABS

Project: OPE0213

Shipped By: Walk-in

Tracking Number: _____

Cooler Received On: 05/12/06 09:55

And Opened On (Date/time): 5/12/06 09:57

Received By: Jessica Batura

Logged in by: Stephanie Bull

Were custody seals on the outside of cooler? YES _____ NO ✓ If Yes # _____ Location _____

Were custody seals intact? YES _____ NO _____ N/A ✓ (no seals present)

Chain of Custody Complete? YES ✓ NO _____ If No Discrepancy _____

Cooler Temperature When Opened: 4.00 Degrees Celsius

Temperature Blank Included: YES _____ NO ✓

Packing Material: Bubblewrap _____ NONE X Other: _____

Received on Ice: YES ✓ NO _____ Other: _____ Total # Of Containers: 1 # Vials 0

Any Bottles Broken? YES _____ NO ✓ If Yes Which One(s)? _____

Any Missing Samples? YES _____ NO ✓ If Yes Which One(s)? _____

pH Levels: H2SO4 <=2? _____ HNO3 <=2? _____ HCL <=2? _____ NaOH >=10? _____

Of Containers Unpreserved between 6 and 8? 1

Any Air Bubbles in VOA Vials? YES _____ NO _____ N/A ✓ (no VOA vials received)

Was there enough sample shipped in each container? YES _____ NO ✓

Correct Preservatives Used? YES _____ NO ✓ If No, please explain: NA petri dish

Project Manager: Holli Raffington

Corrective Actions Taken

SUBCONTRACT ORDER

0PE0213

ENCO Orlando

A602284

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Test America
4310 Anderson Road
Orlando, FL 32812
Phone : (407) 851-2560
Fax: -0
Project State of Origin: FL

Analysis	Due	Expires	Laboratory ID	Comments
Pond 1	Surface Water	11-May-06 13:03	330mL	Chlorophyll-a to follow.
Coliform, Fecal	18-May-06 15:00	11-May-06 19:03	LW	
Chlorophyll A	18-May-06 15:00	10-Jun-06 13:03	01	
Containers Supplied:				
ILA (A)	Sterile Bacteria Cup (F)			

Released By

Date

Received By

Date

Released By

Date

Received By

Date