



Hillsborough County
Florida

ANALYTICAL DATA REPORT

AUGUST 2005

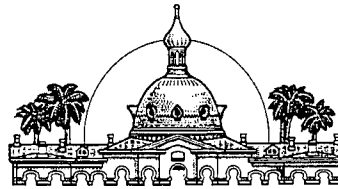
SOUTHEAST COUNTY LANDFILL SITE

HILLSBOROUGH COUNTY, FLORIDA

Hillsborough County
Solid Waste Management Department
Management & Environmental Services Section
P.O. Box 1110
Tampa, Florida 33601

October 26, 2005

AUG 2005
SAMPLING
EVENT



Hillsborough County
Florida

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Patricia G. Bean

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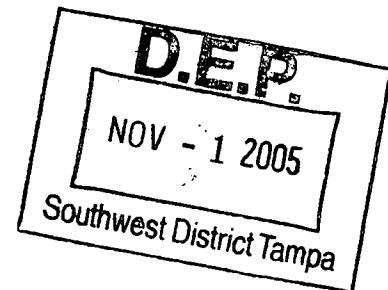
Deputy County Administrator
Wally Hill

Assistant County Administrators
Bernardo Garcia
Carl S. Harness
Manus J. O' Donnell

October 26, 2005

Mr. John Morris, P.G.
Department of Environmental Protection
Southwest District-Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

**Re: Southeast County Landfill
Operations Permit No. 35435-006-SO
Semi-Annual Analytical Data Report, August 2005**



Dear Mr. Morris:

In accordance with the Landfill Operation Permits No. 35435-006-SO and 35435-007-SO, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the August 2005 analytical data report (ADR) for the semi-annual water quality monitoring at the Southeast County Landfill (SCLF). Samples were collected on August 22 through August 24 by the SWMD Field Sampling Team.

The SWMD would like to make you aware of some problems we have experienced with our contracted analytical laboratory, Test America, Inc. (TA). Several problems were experienced at the laboratory, and specifically within their metals analysis area. The initial data reported lead and several other metals at concentrations significantly above standards in almost all of the samples, and the historical data set for the site did not support these findings. The SWMD requested that TA re-digest and reanalyze the samples for lead, and after a significant delay, the results appeared more in line with the historical data set. Problems with other parameters that have affected the data set from this event include Antimony, Mercury, and Vinyl Chloride. The problems experienced at the SCLF were also documented at other sites, and the volume and frequency of problems have resulted in the SWMD terminating our contract with TA.

Severn Trent will be performing analysis of our samples for future sampling events at the SCLF. Based on the problems we have documented, the data set from this sampling event contains several outliers, and the SWMD intends evaluate the data set further after the next scheduled sampling event in February 2006. Additionally, we plan to sample and analyze the Section 7 detection wells, TH-59 and Th-60 in November to evaluate the effectiveness of the proposed corrective actions addressing the migration of landfill gas in that area.

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Mr. John Morris, P.G.
October 26, 2005
Page 2

The surficial aquifer groundwater monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard's (SDWS) acceptable range. Iron is consistently observed above the SDWS within several surficial aquifer wells at the SCLF, including the background water quality wells TH-22A and TH-36A. The SWMD maintains the position that the elevated concentrations of iron and the low pH values can be directly attributed to the previous usage of the property as a phosphate mining area.

The two Section 7 detection monitoring wells, TH-59 and TH-60, continue to exhibit impacts from the migration of landfill gas out of the landfill. Additional remedial actions are currently being implemented by the SMWD, and our new engineering consultant, Jones Edmunds, Inc., shall submit the findings in a separate response to the Florida Department of Environmental Protection (FDEP) comment letter dated September 26, 2005.

The violations of the water quality criteria and the overall impact to the future groundwater monitoring activities at the SCLF are discussed in parameter specific details herein.

GENERAL PARAMETERS

pH

The surficial aquifer detection and background groundwater quality monitoring wells continue to exhibit pH values below the SDWS acceptable range of 6.5 to 8.5 pH units. The pH values across the site range in value from 4.70 to 6.22 pH units. The pH at the site has historically been observed to be below the acceptable range. The 1983 Ardaman and Associates, Inc. report titled Hydrogeologic Investigation, Southeast County Landfill, reported pH values ranging from 4.4 to 6.7 pH units in six wells on site. This data was collected prior to construction of the landfill, and therefore demonstrates that the pH values historically observed are directly attributable to the mining activities conducted on site prior to construction of the landfill.

The surface water discharge monitoring point, 3C2, exhibited a value of 6.97 pH units. No unusual conditions or changes in pH values within any of the groundwater monitoring wells or surface water sites were observed during this sampling event.

Total Dissolved Solids

The surficial aquifer detection wells, TH-58, TH-59, and TH-60, exhibits total dissolved solids (TDS) above the Secondary Drinking Water Standard (SDWS) of 500 milligrams per liter (mg/l) with concentrations of 526 mg/l, 756 mg/l, and 1210 mg/l. All the other monitoring wells were observed below the SDWS for TDS during this sampling event.

Radium 226

The Weeks' private supply well exhibited concentrations of radium 226 at 7.8 picocuries per liter (pCi/l), which is above the Primary Drinking Water Standard (PDWS) of 5 pCi/l. This supply well has periodically been observed to exhibit radium 226 slightly above the MCL. No unusual conditions or changes in radium 226 values were observed during this sampling event.

Fecal Coliform

The surface water sampling points, 3A, 3B2B, 3C2, and 1-D (Smith Lake) exhibited concentrations of fecal coliform at 4,200 colonies per 100 milliliter (col/ml), 2,300 col/ml, 4,800 col/ml, and 1,500 col/ml, which is above the Surface Water Standard of 800 col/ml.

METALS

Iron

Iron concentrations in eleven of the thirteen surficial aquifer monitoring wells were above the applicable SDWS of 0.300 mg/l. The highest concentration for iron was 15 mg/l in detection well TH-60. The iron concentrations observed in the surficial aquifer wells across the site have historically been elevated, and the 1983 Ardaman and Associates, Inc. report titled Hydrogeologic Investigation, Southeast County Landfill, reported iron above the PDWS at concentrations ranging from 0.43 to 20.0 milligrams per liter (mg/l). Based on the iron observed in 1983 prior to construction of the landfill, the iron historically observed across the site is directly attributable to the past mining activities. It should be noted that areas at the SELF that have been disturbed by mining or landfill construction activities appear to exhibit the higher iron concentrations.

The SCLF private supply wells owned by Weeks and Holland exhibited levels of iron above the SDWS with concentrations of 0.48 mg/l and 1.5 mg/l, respectively. No unusual conditions or changes in iron concentrations within any of the groundwater monitoring wells or surface water samples at the site were observed during this event.

Nickel

Nickel was observed in TH-60 above the PDWS of 0.1 mg/l at a concentration of 0.158 mg/l, during this sampling event. Detection well TH-59 indicated a level of nickel of 0.0855 mg/l. Nickel has been consistently observed in these wells, and the initial samples, which were collected in October 2003 prior to waste being placed in the Section 7 cell, exhibited nickel above the PDWS.

Antimony

Antimony concentrations in four of the thirteen surficial aquifer monitoring wells and the two floridan wells were above the applicable PDWS of 0.006 mg/l. Surficial wells TH-58, TH-59, TH-60, TH-67 and the Floridan wells TH-19 and TH-40 indicated levels of antimony ranging from 0.00712 to 0.0175 mg/l. The SCLF private supply wells owned by Weeks, Holland, and Barnes exhibited levels of antimony also above the PDWS with concentrations of 0.011 mg/l, 0.011 mg/l and 0.00813 mg/l, respectively. These concentrations are well above the PDWS of

0.006 mg/l. Historically, Antimony has been observed below or just above detection limits in these private supply wells, and the results from this event are considered outliers. Additionally, it should be noted that the SWMD has experienced numerous data quality problems with our contracted laboratory, Test America, and specific problems within their metals analysis section have been documented. The reported values are not believed to be representative of water quality within these wells with respect to Antimony, and the November samples will be analyzed by our new contract laboratory, Severn Trent.

Mercury

Mercury concentrations from all four of the surface water sites were above the applicable surface water standard of 0.000012 mg/l. Surface water sites 3A, 3B2B, 3C2, and Smith Lake indicated levels of mercury of 0.0000786 mg/l, 0.0000766 mg/l, 0.0000907 mg/l, and 0.0000857 mg/l. The presence of mercury in the surface water at the SCLF is questionable, and the historical data set indicates mercury has not been present at these sample sites. As previously discussed, the SWMD has been experiencing numerous problems with our contracted laboratory, Test America. Therefore we consider these violations of water quality standards to be outliers.

Turbidity

In accordance with the April 3, 2003 Approval of Corrective Action Plan letter from the Florida Department of Environmental Protection (FDEP), the SWMD has included the recorded turbidity data for the period from March 2005 through August 2005. A summary table of the turbidity data obtained from the surface water sampling points 3A, 3B2B and 3C2 located in Long Flat Creek is provided within this ADR. The turbidity measurements have been within the compliance level of 29 nephelometric turbidity units (NTU) above the background (upstream) level. However, the turbidity recorded on August 22, 2005 at around lunch time during this sampling event indicated a turbidity value of 33 NTU at the discharge point. The upstream value was recorded at 1.9, which is a violation of surface water standards. The on site personnel recorded turbidity readings at around 7:45 a.m. on August 22, 2005 and August 23, 2005, in response to the 2.8 inches of rain fall received on August 21, 2005 and 1.7 inches of rain received on August 22, 2005. These two turbidity recordings bracket the turbidity recording conducted by our Field Sampling Team. Although there was a violation on August 22, the conditions at the discharge point returned to compliance quickly on August 23, and have remained so to date.

The failure to report the violation listed above is a result of the Field Sampling Team not recognizing the discharge point being 29 NTU above the upstream value. In all future semi annual sampling events performed at Long Flat Creek, the Field Sampling Team and the on-site personnel will each record the turbidity values for additional monitoring and instrument calibration quality control. All future reporting of turbidity recorded at the SCLF shall continue to be submitted within each semi-annual ADR, and any violations will be immediately reported.

Fecal Coliform

The results of analysis of samples collected at the four surface water sites exhibited high concentrations of fecal coliform bacteria. The samples were collected on August 22, 2005 by the Field Sampling Team, and at the time of sample collection Long Flat Creek was observed to be flowing over it's banks in several areas along the creek. Water was extending out into the woods along the area just west of the original landfill Phases I – VI. The site had received 2.8 inches of rain on August 21, 2005, and the run off from this significant rainfall event likely drove the high fecal counts in the surface water of the Creek. The upstream point 3A, exhibited 4200 colonies per 100 milliliter (col/ml), the mid-stream point 3B2B exhibited 2500 col/ml, and the discharge point 3C2 exhibited 4800 col/ml. The surface water sampling point in Smith Lake exhibited fecal coliform at 1500 col/ml. The area in the vicinity of this sampling location is frequently utilized as a roosting area by the numerous birds that are attracted to the landfill, and fecal coliform is regularly observed in the samples collected.

ORGANIC PARAMETERS

The organic parameters tested under EPA Method 8260 were sampled between August 22 through August 24, 2005. The results are discussed in detail in the following paragraphs.

Volatile Organic Parameters

Benzene was observed in TH-60 above the PDWS of 1 microgram per liter (ug/l) at a concentration of 5.08 ug/l, respectively. The chlorinated solvents methylene chloride, chloroethane, cis-1,2-dichloroethane, 1,2 dichloroethane, 1,1-dichloroethane, and vinyl chloride were observed in TH-60, and cis-1,2-dichloroethane, 1,1-dichloroethane, and vinyl chloride were observed in TH-59. These detections of chlorinated solvents except for vinyl chloride were observed below their respective drinking water standards or guidance concentrations.

Vinyl chloride was detected in surficial monitoring wells TH-59 and TH-60 during this sampling event with levels of 20.9 ug/l and 26.9 ug/l, respectively. These observations were well above the PDWS of 1 ug/l. Historically, these wells have never detected vinyl chloride at or above the PDWS, and the SWMD questioned the data provided by Test America.

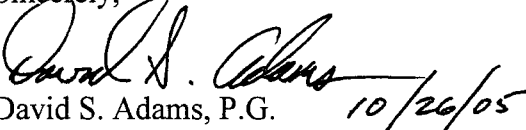
Mr. John Morris, P.G.
October 26, 2005
Page 6

Based on an evaluation of the data set for these two wells, the SWMD performed a separate sampling event for TH-59 and TH-60 on September 8, 2005 to determine if vinyl chloride was present. Along with the SWMD, SCS Engineers collected duplicate or split samples from these two wells. Samples collected by the SWMD were delivered to Test America, Inc. in Orlando, Florida. SCS Engineers delivered their analysis to Environmental Science Corp. (ESC) in Mount Juliet, Tennessee. ESC laboratory is state-certified and qualified to complete the analysis. Laboratory analysis from the sample collected by the SWMD indicated vinyl chloride was detected in TH-59 and TH-60 at concentrations of 22.7 mg/l and 25.5 mg/l, which exceeds the PDWS of 1 ug/l. However, the analysis collected by SCS Engineers and analyzed by ESC did not detect any vinyl chloride in their samples. The large differences in this and other analytical data lead the SWMD to question the validity of the data provided by Test America, Inc. The SWMD considers the vinyl chloride reported by Test America to be outliers, and this position is supported by the historical data and the split samples collected by SCS and analyzed by ESC.

Enclosed for your review is a detailed site location map, the analytical data summary tables, a groundwater elevation data summary table, a surficial aquifer groundwater elevation contour diagram, a data summary table of turbidity measurements, a data summary table for the private supply wells, copies of the letters sent to the owners of the private wells, and the complete laboratory analytical data report sheets.

The SWMD apologizes for the delay in submittal of this ADR, and the numerous problems associated with the analysis of samples. However, we are confident that the problems have been or in the process of being resolved, and the project is back on track. Should you have any questions, require any additional information, or would like to discuss the information provided within this submittal, please feel free to contact me at (813) 276-2944 or via e-mail at adamsds@hillsboroughcounty.org.

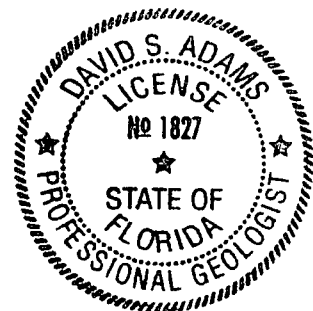
Sincerely,


David S. Adams, P.G. 10/26/05
Environmental Manager
Solid Waste Management

DSA/mdt
Enclosures

xc: Eduardo Tapia, Interim Director, SWMD, w/o enclosures
Patricia Berry, Section Manager, SWMD, w/o enclosures
Ernest Ely, Landfill Manager, WM, Southeast Landfill
Carolyn McCreedy, Engineer, WM, Southeast Landfill
Larry Ruiz, Project Manager, SWMD
Chongman Lee, Department of Environmental Protection
Paul Schipfer, Environmental Protection Commission
Irene Barnes, Southeast Hillsborough Civic Association

[enviro/projects/self/ADRs/2005/self adr 8-05.doc](#)



Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # 62-522.900(2)

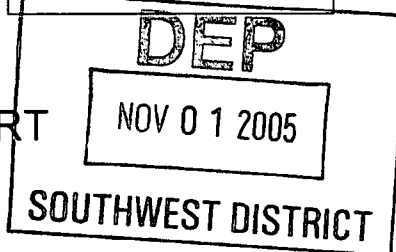
Form Title Ground Water Monitoring Report

Effective Date _____

DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)



PART I GENERAL INFORMATION

(1) Facility Name SOUTHEAST LANDFILL

Address 15960 C. R. 672

City PICNIC, FL Zip 33503

Telephone Number (813) 671-7707

(2) The GMS Identification Number 4029C30075

(3) DEP Permit Number 35435-006-SO

(4) Authorized Representative Name EDUARDO J. TAPIA, INTERIM DIRECTOR, SOLID WASTE MANAGEMENT DEPT

Address P O BOX 1110

City TAMPA, FLORIDA Zip 33601

Telephone Number (813) 276-2900

(5) Type of Discharge GROUNDWATER - POTENTIAL ONLY

(6) Method of Discharge 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 submitting false information, including the possibility of fine and imprisonment.

Date: 10-27-05 EJ Tapia

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

Analytical Lab Comp QAP # /HRS Certification # _____

*Comp QAP # /HRS Certification # _____

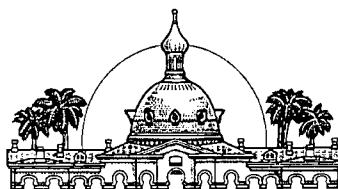
Lab Name TEST AMERICA, INC

Address 4310 EAST ANDERSON ROAD, ORLANDO, FL 33812

Phone Number (800) 851-2560

Analytical Results from Private Well Samples at the Southeast Landfill August 22, 2005

GENERAL (mg/l)	Private Wells			(MCL) STANDARD
PARAMETERS	Weeks	Holland	Barnes	F.A.C. 62-550
conductivity (umhos/cm) (field)	463	343	345	NS
pH (field)	6.89	7.1	7.64	(6.5 - 8.5)**
total dissolved solids (mg/l)	330	246	238	500**
temperature (°C) (field)	24.2	24.2	24.8	NS
turbidity (NTU) (field)	2.4	0.90	0.0	NS
chloride (mg/l)	24.8	17.9	7.92	250**
ammonia nitrogen (mg/l as N)	0.0451	BDL	0.0698	NS
nitrate (mg/l as N)	0.035	BDL	0.117	10*
dissolved oxygen (mg/l) (field)	4.23	1.53	6.34	NS
total alpha (pCi/l)	7.3	1.5	2.3	15*
radium 226 (pCi/l)	7.8	1.5	1.8	5*
radium 228 (pCi/l)	1	BDL	1.1	5*
Metals: (mg/l)	Private Wells			(MCL) STANDARD
	Weeks	Holland	Barnes	F.A.C. 62-550
iron	0.397	1.350	0.0396	0.3**
chromium	BDL	BDL	BDL	0.2
copper	BDL	BDL	BDL	1**
barium	0.00501	0.00402	0.00532	2*
arsenic	BDL	BDL	BDL	0.05*
lead	BDL	0.00567	0.00757	0.015*
sodium	7.51	4.93	14.6	160*
mercury	0.0000865	0.0000917	0.000092	0.002
zinc	0.17	0.0849	0.178	5**
antimony	0.011	0.011	0.00813	.006*
nickel	BDL	BDL	BDL	0.1*
Organics: (µg/l)	Private Wells			(MCL) STANDARD
Organic Parameters Detected	Weeks	Holland	Barnes	F.A.C. 62-550
1,1-dichloroethene	BDL	BDL	BDL	7*
Notes: Reference Groundwater Guidance Concentrations, FDEP June 1994				
NS=NO STANDARD				
MCL=MAXIMUM CONTAMINANT LEVEL				
BDL=BELOW DETECTION LIMIT				
NA=NOT AVAILABLE				
*=DENOTES PRIMARY DRINKING WATER STANDARD				
**=DENOTES SECONDARY DRINKING WATER STANDARD				
7.8 : EXCEEDS STANDARDS				
NTU=NEPHELOMETRIC TURBIDITY UNITS				
pCi/l=PICOCURIES PER LITER				
ug/l=MICROGRAMS PER LITER				
mg/l=MILLIGRAMS PER LITER				
(-)=indicates that the sample was not analyzed for this parameter				



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Manus J. O' Donnell

Mr. & Mrs. Harold Weeks
116 Wendel Ave.
Lithia, FL 33547

Subject: Analytical Data
Domestic Supply Well
116 Wendel Ave.

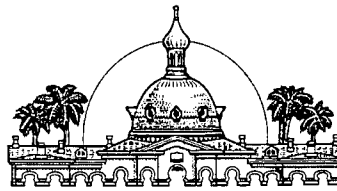
Dear Mr. & Mrs. Weeks:

The Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for your domestic supply well which was sampled on August 22, 2005. Antimony and Iron were observed at concentrations of 0.011 mg/l and 0.397 mg/l, respectively. These values exceed the Florida Primary and Secondary Drinking Water Standard (FAC Ch 62-550.310-320) of 0.006 mg/l and 0.30 mg/l. The SWMD's contract laboratory experienced equipment problems with their metals analysis. After reviewing the historical sample data for this well, the SWMD believes that the Antimony result is not an accurate representation of the water quality conditions and is considered an outlier. The SWMD will be sampling this well during the month of November and will be utilizing a new contracted laboratory for the analysis. Radium 226 was also observed at a concentration of 7.8 pCi/l which exceeds the Florida Primary Drinking Water Standard of 5.0 pCi/l. All other parameters tested are within Florida Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

For health effects information you may call the Hillsborough Health Department at (813) 307-8001. If you have any questions on the analysis, you may call me at 276-2955. Thank you for your permission to test this well.

Sincerely,

Michael D. Townsel
Hydrologist
Solid Waste Management Department



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

October 26, 2005

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Assistant County Administrators
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Carl S. Harness
Manus J. O' Donnell

Mr. Tom Holland
121 Carter Road
Lithia, FL 33547

Subject: Analytical Data
Domestic Supply Well
121 Carter Road

Dear Mr. Holland:

The Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for your domestic supply well which was sampled on August 22, 2005. Antimony and Iron were observed at concentrations of 0.011 mg/l and 1.35 mg/l, respectively, which are exceedances of the Florida Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310 -.320) of 0.006 mg/l and 0.30 mg/l, respectively. The SWMD's contract laboratory experienced equipment problems with their metals analysis. After reviewing the historical sample data for this well, the SWMD believes that the Antimony result is not an accurate representation of the water quality conditions and is considered an outlier. The SWMD will be sampling this well during the month of November and will be utilizing a new contracted laboratory for the analysis. All other parameters are within Primary and Secondary Drinking Water Standards.

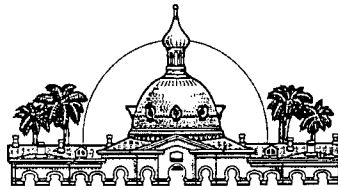
For health effects information you may call the Hillsborough County Health Department at (813) 307-8001. If you have any questions on the analysis, you may call me at 276-2955. Thank you for your permission to test this well.

Sincerely,

Michael D. Townsel
Hydrologist
Solid Waste Management Department

mdt
Enclosures

xc: Irene Barnes, Southeast Hillsborough Civic Association
Cindy Morris, Hillsborough County Health Department



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Carl S. Harness
Manus J. O' Donnell

Mr. Howard Barnes
P.O. Box 108
Lithia, FL 33547

Subject: Analytical Data
Domestic Supply Well
17502 County Road 672

Dear Mr. Barnes:

The Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for your domestic supply well which was sampled on August 22, 2005. Antimony was observed at a concentration of 0.00813 mg/l which is in exceedance of the Florida Primary Drinking Water Standard (FAC Ch 62-550.320) of 0.006 mg/l. The SWMD's contract laboratory experienced equipment problems with their metals analysis. After reviewing the historical sample data for this well, the SWMD believes that the Antimony result is not an accurate representation of the water quality conditions and is considered an outlier. The SWMD will be sampling this well during the month of November and will be utilizing a new contracted laboratory for the analysis. All other parameters tested are within Florida Primary and Secondary Drinking Water Standards.

If you have any questions on the analysis, you may call me at 276-2955. Thank you for permission to test this well.

Sincerely,

Michael D. Townsel
Hydrologist
Solid Waste Management Department

mdt

Enclosures

xc: Irene Barnes, Southeast Hillsborough Civic Association
Cindy Morris, Hillsborough County Health Department

Post Office Box 1110 • Tampa, Florida 33601

Web Site: www.hillsboroughcounty.org

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September 15, 2005

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI Work Order: OOH0395
P.O. BOX 1110 Project Name: SE LANDFILL WELL MON. PROG.- Priv.
TAMPA, FL 33601 Project Number: WO#0001
Date Received: 08/22/05
Attn: JIM CLAYTON

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
WEEKES	OOH0395-01	08/22/05 09:45
BARNES	OOH0395-02	08/22/05 11:05
HOLLAND	OOH0395-03	08/22/05 10:20
DUPLICATE	OOH0395-04	08/22/05 00:00

EPA 900.0, EPA 903.1, Ra-05 analysis performed at Lab ID: E83033

Samples were received into laboratory at a temperature of 4.0 °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.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately.

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

Florida Certification Number: E83012

Approved By:



TestAmerica Analytical - Orlando
Enid Ortiz For Judy Beato
Project Manager

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV
P.O. BOX 1110
TAMPA, FL 33601
Attn: JIM CLAYTON

Work Order: OOH0395
Project: SE LANDFILL WELL MON. PROG.- Pt
Project Number: WO#0001

Sampled: 08/22/05

Received: 08/22/05

NOV 01 2005

SOUTHWEST DISTRICT

LABORATORY REPORT

Sample ID: WEEKES - Lab Number: OOH0395-01 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Dissolved Oxygen	4.23		mg/L	NA	NA	1	08/22/05 09:45	CLI	EPA 360.2	5H25027
PH	pH	6.89		pH Units	NA	NA	1	08/22/05 09:45	CLI	EPA 150.1	5H25027
NA	Specific Conductance (EC)	463		uS/cm	NA	NA	1	08/22/05 09:45	CLI	EPA 120.1	5H25027
TEMP	Temperature	24.2		°C	NA	NA	1	08/22/05 09:45	CLI	EPA 170.1	5H25027
NA	Turbidity	2.4		NTU	NA	NA	1	08/22/05 09:45	CLI	EPA 180.1	5H25027
General Chemistry Parameters											
7664-41-7	Ammonia as N	0.0451		mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29023
C010	Total Dissolved Solids	330		mg/L	3.00	5.00	1	08/23/05 12:17	DGC	EPA 160.1	5H22033
E1642818	Total Suspended Solids	1.00	U	mg/L	1.00	1.00	1	08/25/05 11:10	DGC	EPA 160.2	5H25014
16887-00-6	Chloride	24.8		mg/L	2.00	2.00	1	08/23/05 09:21	BDG	EPA 300.0	5H23007
E701250	TOC	3.23		mg/L	0.500	1.00	1	08/26/05 00:07	SXP	EPA 415.1	5H26021
14797-55-8	Nitrate as N	0.0350		mg/L	0.0190	0.0200	1	08/23/05 09:21	BDG	EPA 300.0	5H23007
Metals											
7440-36-0	Antimony	0.0110		mg/L	0.00500	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-39-3	Barium	0.00501	1	mg/L	0.00100	0.0100	1	08/24/05 13:57	AXC	EPA 6010B	5H23012
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 13:58	AXC	EPA 6010B	5H23012
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-47-3	Chromium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/24/05 13:57	AXC	EPA 6010B	5H23012
7439-89-6	Iron	0.397		mg/L	0.0100	0.0500	1	08/24/05 13:57	AXC	EPA 6010B	5H23012
7439-92-1	Lead	0.00829	1	mg/L	0.00300	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7439-97-6	Mercury	0.0000865	1	mg/L	0.0000500	0.000200	1	08/23/05 15:10	GCT	EPA 7470A	5H23004
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 13:58	AXC	EPA 6010B	5H23012
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/24/05 13:58	AXC	EPA 6010B	5H23012
7440-23-5	Sodium	7.51		mg/L	0.110	0.500	1	08/24/05 13:57	AXC	EPA 6010B	5H23012
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-62-2	Vanadium	0.000500	U	mg/L	0.000500	0.0100	1	08/24/05 13:59	AXC	EPA 6010B	5H23012
7440-66-6	Zinc	0.170		mg/L	0.0235	0.0500	1	08/24/05 13:58	AXC	EPA 6010B	5H23012
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/25/05 02:22	SKH	EPA 8011	5H23027
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/25/05 02:22	SKH	EPA 8011	5H23027
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
79-34-5	1,1,2,2-Tetrachloroethane	0.115	U	ug/L	0.115	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
79-00-5	1,1,2-Trichloroethane	0.310	U	ug/L	0.310	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-34-3	1,1-Dichloroethane	0.172	U	ug/L	0.172	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-35-4	1,1-Dichloroethene	0.268	U	ug/L	0.268	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
96-18-4	1,2,3-Trichloropropane	0.277	U	ug/L	0.277	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: WEEKES - Lab Number: OOH0395-01 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
96-12-8	1,2-Dibromo-3-chloropropane	0.880	U	ug/L	0.880	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
106-93-4	1,2-Dibromoethane (EDB)	0.147	U	ug/L	0.147	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
95-50-1	1,2-Dichlorobenzene	0.151	J4, U	ug/L	0.151	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
107-06-2	1,2-Dichloroethane	0.0868	U	ug/L	0.0868	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
78-87-5	1,2-Dichloropropane	0.0886	U	ug/L	0.0886	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
106-46-7	1,4-Dichlorobenzene	0.0975	U	ug/L	0.0975	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
78-93-3	2-Butanone	0.729	U	ug/L	0.729	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
591-78-6	2-Hexanone	0.835	U	ug/L	0.835	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
108-10-1	4-Methyl-2-pentanone	0.354	U	ug/L	0.354	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
67-64-1	Acetone	1.30	U	ug/L	1.30	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
107-13-1	Acrylonitrile	0.586	J4, U	ug/L	0.586	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
71-43-2	Benzene	0.143	U	ug/L	0.143	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
74-97-5	Bromochloromethane	0.301	U	ug/L	0.301	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-27-4	Bromodichloromethane	0.184	U	ug/L	0.184	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-25-2	Bromoform	0.245	U	ug/L	0.245	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
74-83-9	Bromomethane	0.357	U	ug/L	0.357	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-15-0	Carbon disulfide	0.140	U	ug/L	0.140	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
56-23-5	Carbon Tetrachloride	0.406	U	ug/L	0.406	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
108-90-7	Chlorobenzene	0.105	U	ug/L	0.105	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
124-48-1	Chlorodibromomethane	0.157	U	ug/L	0.157	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-00-3	Chloroethane	0.316	U	ug/L	0.316	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
67-66-3	Chloroform	0.111	U	ug/L	0.111	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
74-87-3	Chloromethane	0.320	U	ug/L	0.320	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
156-59-2	cis-1,2-Dichloroethene	0.278	U	ug/L	0.278	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
10061-01-5	cis-1,3-Dichloropropene	0.152	U	ug/L	0.152	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
74-95-3	Dibromomethane	0.216	U	ug/L	0.216	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
100-41-4	Ethylbenzene	0.201	U	ug/L	0.201	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
74-88-4	Iodomethane	0.160	U	ug/L	0.160	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-09-2	Methylene Chloride	0.174	U	ug/L	0.174	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
100-42-5	Styrene	0.173	U	ug/L	0.173	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
127-18-4	Tetrachloroethene	0.242	U	ug/L	0.242	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
108-88-3	Toluene	0.142	U	ug/L	0.142	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
156-60-5	trans-1,2-Dichloroethene	0.237	U	ug/L	0.237	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
10061-02-6	trans-1,3-Dichloropropene	0.192	U	ug/L	0.192	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
110-57-6	trans-1,4-Dichloro-2-butene	0.264	U	ug/L	0.264	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
79-01-6	Trichloroethene	0.224	U	ug/L	0.224	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-69-4	Trichlorofluoromethane	1.00	U	ug/L	1.00	1.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
108-05-4	Vinyl acetate	0.750	U	ug/L	0.750	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/23/05 10:52	JLS	EPA 8260B	5H24013
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		116 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		102 %									

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: WEEKES - Lab Number: OOH0395-01 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
	Surrogate: Dibromofluoromethane (80-120%)	119 %									
	Surrogate: Toluene-d8 (80-117%)	102 %									
Subcontracted Analyses: Radiological											
NA	Gross Alpha	7.3+/-2.1		pCi/L	1.8	NA	1	08/30/05 00:00	MJN	EPA 900.0	NONE
13982-63-3	Radium-226	7.8+/-0.4		pCi/L	0.2	NA	1	09/01/05 00:00	MJN	EPA 903.1	NONE
15262-20-1	Radium-228	1.0+/-0.7		pCi/L	1.0	NA	1	09/01/05 00:00	PJ	Ra-05	NONE

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: BARNES - Lab Number: OOH0395-02 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analized Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Dissolved Oxygen	6.34		mg/L	NA	NA	1	08/22/05 11:05	CLI	EPA 360.2	5H25027
PH	pH	7.64		pH Units	NA	NA	1	08/22/05 11:05	CLI	EPA 150.1	5H25027
NA	Specific Conductance (EC)	345		uS/cm	NA	NA	1	08/22/05 11:05	CLI	EPA 120.1	5H25027
TEMP	Temperature	24.8		°C	NA	NA	1	08/22/05 11:05	CLI	EPA 170.1	5H25027
NA	Turbidity	0.0		NTU	NA	NA	1	08/22/05 11:05	CLI	EPA 180.1	5H25027
General Chemistry Parameters											
7664-41-7	Ammonia as N	0.0698		mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29023
C010	Total Dissolved Solids	238		mg/L	3.00	5.00	1	08/23/05 12:17	DGC	EPA 160.1	5H22033
E1642818	Total Suspended Solids	1.00	U	mg/L	1.00	1.00	1	08/25/05 11:10	DGC	EPA 160.2	5H25014
16887-00-6	Chloride	7.92		mg/L	2.00	2.00	1	08/23/05 09:45	BDG	EPA 300.0	5H23007
E701250	TOC	2.17		mg/L	0.500	1.00	1	08/26/05 00:27	SXP	EPA 415.1	5H26021
14797-55-8	Nitrate as N	0.117		mg/L	0.0190	0.0200	1	08/23/05 09:45	BDG	EPA 300.0	5H23007
Metals											
7440-36-0	Antimony	0.00813	I	mg/L	0.00500	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-39-3	Barium	0.00532	I	mg/L	0.00100	0.0100	1	08/24/05 14:02	AXC	EPA 6010B	5H23012
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-47-3	Chromium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/24/05 14:02	AXC	EPA 6010B	5H23012
7439-89-6	Iron	0.0396	I	mg/L	0.0100	0.0500	1	08/24/05 14:02	AXC	EPA 6010B	5H23012
7439-92-1	Lead	0.00757	I	mg/L	0.00300	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7439-97-6	Mercury	0.0000920	I	mg/L	0.0000500	0.000200	1	08/23/05 15:16	GCT	EPA 7470A	5H23004
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-23-5	Sodium	14.6		mg/L	0.110	0.500	1	08/24/05 14:02	AXC	EPA 6010B	5H23012
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-62-2	Vanadium	0.000500	U	mg/L	0.000500	0.0100	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
7440-66-6	Zinc	0.178		mg/L	0.0235	0.0500	1	08/24/05 14:03	AXC	EPA 6010B	5H23012
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/25/05 03:03	SKH	EPA 8011	5H23027
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/25/05 03:03	SKH	EPA 8011	5H23027
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
79-34-5	1,1,2,2-Tetrachloroethane	0.115	U	ug/L	0.115	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
79-00-5	1,1,2-Trichloroethane	0.310	U	ug/L	0.310	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-34-3	1,1-Dichloroethane	0.172	U	ug/L	0.172	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-35-4	1,1-Dichloroethene	0.268	U	ug/L	0.268	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
96-18-4	1,2,3-Trichloropropane	0.277	U	ug/L	0.277	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: BARNES - Lab Number: OOH0395-02 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
96-12-8	1,2-Dibromo-3-chloropropane	0.880	U	ug/L	0.880	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
106-93-4	1,2-Dibromoethane (EDB)	0.147	U	ug/L	0.147	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
95-50-1	1,2-Dichlorobenzene	0.151	U	ug/L	0.151	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
107-06-2	1,2-Dichloroethane	0.0868	U	ug/L	0.0868	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
78-87-5	1,2-Dichloropropane	0.0886	U	ug/L	0.0886	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
106-46-7	1,4-Dichlorobenzene	0.0975	U	ug/L	0.0975	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
78-93-3	2-Butanone	0.729	U	ug/L	0.729	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
591-78-6	2-Hexanone	0.835	U	ug/L	0.835	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
108-10-1	4-Methyl-2-pentanone	0.354	U	ug/L	0.354	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
67-64-1	Acetone	1.30	U	ug/L	1.30	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
107-13-1	Acrylonitrile	0.586	U	ug/L	0.586	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
71-43-2	Benzene	0.143	U	ug/L	0.143	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
74-97-5	Bromochloromethane	0.301	U	ug/L	0.301	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-27-4	Bromodichloromethane	0.184	U	ug/L	0.184	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-25-2	Bromoform	0.245	U	ug/L	0.245	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
74-83-9	Bromomethane	0.357	U	ug/L	0.357	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-15-0	Carbon disulfide	0.140	U	ug/L	0.140	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
56-23-5	Carbon Tetrachloride	0.406	U	ug/L	0.406	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
108-90-7	Chlorobenzene	0.105	U	ug/L	0.105	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
124-48-1	Chlorodibromomethane	0.157	U	ug/L	0.157	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-00-3	Chloroethane	0.316	U	ug/L	0.316	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
67-66-3	Chloroform	0.111	U	ug/L	0.111	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
74-87-3	Chloromethane	0.320	U	ug/L	0.320	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
156-59-2	cis-1,2-Dichloroethene	0.278	U	ug/L	0.278	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
10061-01-5	cis-1,3-Dichloropropene	0.152	U	ug/L	0.152	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
74-95-3	Dibromomethane	0.216	U	ug/L	0.216	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
100-41-4	Ethylbenzene	0.201	U	ug/L	0.201	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
74-88-4	Iodomethane	0.160	U	ug/L	0.160	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-09-2	Methylene Chloride	0.174	U	ug/L	0.174	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
100-42-5	Styrene	0.173	U	ug/L	0.173	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
127-18-4	Tetrachloroethene	0.242	U	ug/L	0.242	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
108-88-3	Toluene	0.142	U	ug/L	0.142	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
156-60-5	trans-1,2-Dichloroethene	0.237	U	ug/L	0.237	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
10061-02-6	trans-1,3-Dichloropropene	0.192	U	ug/L	0.192	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
110-57-6	trans-1,4-Dichloro-2-butene	0.264	U	ug/L	0.264	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
79-01-6	Trichloroethene	0.224	U	ug/L	0.224	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-69-4	Trichlorofluoromethane	1.00	U	ug/L	1.00	1.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
108-05-4	Vinyl acetate	0.750	U	ug/L	0.750	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/23/05 11:09	JLS	EPA 8260B	5H24013
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		116 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		103 %									

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT
Sample ID: BARNES - Lab Number: OOH0395-02 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
	Surrogate: Dibromofluoromethane (80-120%)	122 %	J1								
	Surrogate: Toluene-d8 (80-117%)	102 %									
Subcontracted Analyses: Radiological											
NA	Gross Alpha	2.3+/-1.7		pCi/L	2.2	NA	1	08/30/05 00:00	MJN	EPA 900.0	NONE
13982-63-3	Radium-226	1.8+/-0.2		pCi/L	0.1	NA	1	09/01/05 00:00	MJN	EPA 903.1	NONE
15262-20-1	Radium-228	1.1+/-0.7		pCi/L	1.0	NA	1	09/01/05 00:00	PJ	Ra-05	NONE

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: HOLLAND - Lab Number: OOH0395-03 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Dissolved Oxygen	1.53		mg/L	NA	NA	1	08/22/05 10:20	CLI	EPA 360.2	5H25027
PH	pH	7.10		pH Units	NA	NA	1	08/22/05 10:20	CLI	EPA 150.1	5H25027
NA	Specific Conductance (EC)	343		uS/cm	NA	NA	1	08/22/05 10:20	CLI	EPA 120.1	5H25027
TEMP	Temperature	24.2		°C	NA	NA	1	08/22/05 10:20	CLI	EPA 170.1	5H25027
NA	Turbidity	0.90		NTU	NA	NA	1	08/22/05 10:20	CLI	EPA 180.1	5H25027
General Chemistry Parameters											
7664-41-7	Ammonia as N	0.0200	U	mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29023
C010	Total Dissolved Solids	246		mg/L	3.00	5.00	1	08/23/05 12:17	DGC	EPA 160.1	5H22033
E1642818	Total Suspended Solids	2.40		mg/L	1.00	1.00	1	08/25/05 11:10	DGC	EPA 160.2	5H25014
16887-00-6	Chloride	17.9		mg/L	2.00	2.00	1	08/23/05 10:10	BDG	EPA 300.0	5H23007
E701250	TOC	1.52		mg/L	0.500	1.00	1	08/26/05 00:46	SXP	EPA 415.1	5H26021
14797-55-8	Nitrate as N	0.0190	U	mg/L	0.0190	0.0200	1	08/23/05 10:10	BDG	EPA 300.0	5H23007
Metals											
7440-36-0	Antimony	0.0112		mg/L	0.00500	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-39-3	Barium	0.00402	I	mg/L	0.00100	0.0100	1	08/24/05 14:07	AXC	EPA 6010B	5H23012
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-47-3	Chromium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/24/05 14:07	AXC	EPA 6010B	5H23012
7439-89-6	Iron	1.35		mg/L	0.0100	0.0500	1	08/24/05 14:07	AXC	EPA 6010B	5H23012
7439-92-1	Lead	0.00567	I	mg/L	0.00300	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7439-97-6	Mercury	0.0000917	I	mg/L	0.0000500	0.000200	1	08/23/05 15:18	GCT	EPA 7470A	5H23004
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-23-5	Sodium	4.93		mg/L	0.110	0.500	1	08/24/05 14:07	AXC	EPA 6010B	5H23012
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-62-2	Vanadium	0.000756	I	mg/L	0.000500	0.0100	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
7440-66-6	Zinc	0.0849		mg/L	0.0235	0.0500	1	08/24/05 14:08	AXC	EPA 6010B	5H23012
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/25/05 03:23	SKH	EPA 8011	5H23027
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/25/05 03:23	SKH	EPA 8011	5H23027
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
79-34-5	1,1,2,2-Tetrachloroethane	0.115	U	ug/L	0.115	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
79-00-5	1,1,2-Trichloroethane	0.310	U	ug/L	0.310	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-34-3	1,1-Dichloroethane	0.172	U	ug/L	0.172	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-35-4	1,1-Dichloroethene	0.268	U	ug/L	0.268	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
96-18-4	1,2,3-Trichloropropane	0.277	U	ug/L	0.277	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: HOLLAND - Lab Number: OOH0395-03 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
96-12-8	1,2-Dibromo-3-chloropropane	0.880	U	ug/L	0.880	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
106-93-4	1,2-Dibromoethane (EDB)	0.147	U	ug/L	0.147	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
95-50-1	1,2-Dichlorobenzene	0.151	U	ug/L	0.151	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
107-06-2	1,2-Dichloroethane	0.0868	U	ug/L	0.0868	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
78-87-5	1,2-Dichloropropane	0.0886	U	ug/L	0.0886	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
106-46-7	1,4-Dichlorobenzene	0.0975	U	ug/L	0.0975	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
78-93-3	2-Butanone	0.729	U	ug/L	0.729	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
591-78-6	2-Hexanone	0.835	U	ug/L	0.835	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
108-10-1	4-Methyl-2-pentanone	0.354	U	ug/L	0.354	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
67-64-1	Acetone	1.30	U	ug/L	1.30	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
107-13-1	Acrylonitrile	0.586	U	ug/L	0.586	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
71-43-2	Benzene	0.143	U	ug/L	0.143	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
74-97-5	Bromochloromethane	0.301	U	ug/L	0.301	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-27-4	Bromodichloromethane	0.184	U	ug/L	0.184	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-25-2	Bromoform	0.245	U	ug/L	0.245	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
74-83-9	Bromomethane	0.357	U	ug/L	0.357	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-15-0	Carbon disulfide	0.140	U	ug/L	0.140	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
56-23-5	Carbon Tetrachloride	0.406	U	ug/L	0.406	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
108-90-7	Chlorobenzene	0.105	U	ug/L	0.105	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
124-48-1	Chlorodibromomethane	0.157	U	ug/L	0.157	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-00-3	Chloroethane	0.316	U	ug/L	0.316	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
67-66-3	Chloroform	0.111	U	ug/L	0.111	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
74-87-3	Chloromethane	0.320	U	ug/L	0.320	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
156-59-2	cis-1,2-Dichloroethene	0.278	U	ug/L	0.278	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
10061-01-5	cis-1,3-Dichloropropene	0.152	U	ug/L	0.152	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
74-95-3	Dibromomethane	0.216	U	ug/L	0.216	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
100-41-4	Ethylbenzene	0.201	U	ug/L	0.201	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
74-88-4	Iodomethane	0.160	U	ug/L	0.160	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-09-2	Methylene Chloride	0.174	U	ug/L	0.174	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
100-42-5	Styrene	0.173	U	ug/L	0.173	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
127-18-4	Tetrachloroethene	0.242	U	ug/L	0.242	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
108-88-3	Toluene	0.142	U	ug/L	0.142	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
156-60-5	trans-1,2-Dichloroethene	0.237	U	ug/L	0.237	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
10061-02-6	trans-1,3-Dichloropropene	0.192	U	ug/L	0.192	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
110-57-6	trans-1,4-Dichloro-2-butene	0.264	U	ug/L	0.264	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
79-01-6	Trichloroethene	0.224	U	ug/L	0.224	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-69-4	Trichlorofluoromethane	1.00	U	ug/L	1.00	1.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
108-05-4	Vinyl acetate	0.750	U	ug/L	0.750	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/23/05 11:26	JLS	EPA 8260B	5H24013
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		120 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		99 %									

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: HOLLAND - Lab Number: OOH0395-03 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Volatile Organic Compounds by EPA Method 8260B - Cont.

Surrogate: Dibromofluoromethane (80-120%) 118 %
Surrogate: Toluene-d8 (80-117%) 105 %

Subcontracted Analyses: Radiological

NA	Gross Alpha	1.5+/-0.6		pCi/L	0.8	NA	1	08/30/05 00:00	MJN	EPA 900.0	NONE
13982-63-3	Radium-226	1.5+/-0.2		pCi/L	0.1	NA	1	09/01/05 00:00	MJN	EPA 903.1	NONE
15262-20-1	Radium-228	1.0+/-0.6	U	pCi/L	1.0	NA	1	09/01/05 00:00	PJ	Ra-05	NONE

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: DUPLICATE - Lab Number: OOH0395-04 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
7664-41-7	Ammonia as N	0.0336	J4	mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29023
C010	Total Dissolved Solids	244		mg/L	3.00	5.00	1	08/23/05 12:17	DGC	EPA 160.1	5H22033
E1642818	Total Suspended Solids	1.00	U	mg/L	1.00	1.00	1	08/25/05 11:10	DGC	EPA 160.2	5H25014
16887-00-6	Chloride	7.89		mg/L	2.00	2.00	1	08/23/05 10:35	BDG	EPA 300.0	5H23007
E701250	TOC	2.06		mg/L	0.500	1.00	1	08/26/05 01:05	SXP	EPA 415.1	5H26021
14797-55-8	Nitrate as N	0.117		mg/L	0.0190	0.0200	1	08/23/05 10:35	BDG	EPA 300.0	5H23007
Metals											
7440-36-0	Antimony	0.0122		mg/L	0.00500	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-39-3	Barium	0.00503	I	mg/L	0.00100	0.0100	1	08/24/05 14:22	AXC	EPA 6010B	5H23012
7440-41-7	Beryllium	0.00113	I	mg/L	0.00100	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-47-3	Chromium	0.00100	U	mg/L	0.00100	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/24/05 14:22	AXC	EPA 6010B	5H23012
7439-89-6	Iron	0.0331	I	mg/L	0.0100	0.0500	1	08/24/05 14:22	AXC	EPA 6010B	5H23012
7439-92-1	Lead	0.00528	I	mg/L	0.00300	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7439-97-6	Mercury	0.0000884	I	mg/L	0.0000500	0.000200	1	08/23/05 15:19	GCT	EPA 7470A	5H23004
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-23-5	Sodium	15.5		mg/L	0.110	0.500	1	08/24/05 14:22	AXC	EPA 6010B	5H23012
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-62-2	Vanadium	0.000500	U	mg/L	0.000500	0.0100	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
7440-66-6	Zinc	0.165		mg/L	0.0235	0.0500	1	08/24/05 14:23	AXC	EPA 6010B	5H23012
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/25/05 03:42	SKH	EPA 8011	5H23027
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/25/05 03:42	SKH	EPA 8011	5H23027
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
79-34-5	1,1,2,2-Tetrachloroethane	0.115	U	ug/L	0.115	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
79-00-5	1,1,2-Trichloroethane	0.310	U	ug/L	0.310	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-34-3	1,1-Dichloroethane	0.172	U	ug/L	0.172	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-35-4	1,1-Dichloroethene	0.268	U	ug/L	0.268	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
96-18-4	1,2,3-Trichloropropane	0.277	U	ug/L	0.277	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
96-12-8	1,2-Dibromo-3-chloropropane	0.880	U	ug/L	0.880	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
106-93-4	1,2-Dibromoethane (EDB)	0.147	U	ug/L	0.147	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
95-50-1	1,2-Dichlorobenzene	0.151	U	ug/L	0.151	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
107-06-2	1,2-Dichloroethane	0.0868	U	ug/L	0.0868	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
78-87-5	1,2-Dichloropropane	0.0886	U	ug/L	0.0886	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
106-46-7	1,4-Dichlorobenzene	0.0975	U	ug/L	0.0975	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: DUPLICATE - Lab Number: OOH0395-04 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
78-93-3	2-Butanone	0.729	U	ug/L	0.729	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
591-78-6	2-Hexanone	0.835	U	ug/L	0.835	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
108-10-1	4-Methyl-2-pentanone	0.354	U	ug/L	0.354	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
67-64-1	Acetone	1.30	U	ug/L	1.30	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
107-13-1	Acrylonitrile	0.586	U	ug/L	0.586	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
71-43-2	Benzene	0.143	U	ug/L	0.143	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
74-97-5	Bromochloromethane	0.301	U	ug/L	0.301	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-27-4	Bromodichloromethane	0.184	U	ug/L	0.184	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-25-2	Bromoform	0.245	U	ug/L	0.245	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
74-83-9	Bromomethane	0.357	U	ug/L	0.357	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-15-0	Carbon disulfide	0.140	U	ug/L	0.140	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
56-23-5	Carbon Tetrachloride	0.406	U	ug/L	0.406	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
108-90-7	Chlorobenzene	0.105	U	ug/L	0.105	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
124-48-1	Chlorodibromomethane	0.157	U	ug/L	0.157	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-00-3	Chloroethane	0.316	U	ug/L	0.316	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
67-66-3	Chloroform	0.111	U	ug/L	0.111	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
74-87-3	Chloromethane	0.320	U	ug/L	0.320	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
156-59-2	cis-1,2-Dichloroethene	0.278	U	ug/L	0.278	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
10061-01-5	cis-1,3-Dichloropropene	0.152	U	ug/L	0.152	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
74-95-3	Dibromomethane	0.216	U	ug/L	0.216	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
100-41-4	Ethylbenzene	0.201	U	ug/L	0.201	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
74-88-4	Iodomethane	0.160	U	ug/L	0.160	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-09-2	Methylene Chloride	0.174	U	ug/L	0.174	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
100-42-5	Styrene	0.173	U	ug/L	0.173	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
127-18-4	Tetrachloroethene	0.242	U	ug/L	0.242	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
108-88-3	Toluene	0.142	U	ug/L	0.142	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
156-60-5	trans-1,2-Dichloroethene	0.237	U	ug/L	0.237	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
10061-02-6	trans-1,3-Dichloropropene	0.192	U	ug/L	0.192	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
110-57-6	trans-1,4-Dichloro-2-butene	0.264	U	ug/L	0.264	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
79-01-6	Trichloroethene	0.224	U	ug/L	0.224	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-69-4	Trichlorofluoromethane	1.00	U	ug/L	1.00	1.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
108-05-4	Vinyl acetate	0.750	U	ug/L	0.750	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/23/05 11:43	JLS	EPA 8260B	5H24013
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		123 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		101 %									
Surrogate: Dibromofluoromethane (80-120%)		121 %	J1								
Surrogate: Toluene-d8 (80-117%)		104 %									
Subcontracted Analyses: Radiological											
NA	Gross Alpha	3.3+/-1.9		pCi/L	2.4	NA	1	08/30/05 00:00	MJN	EPA 900.0	NONE
13982-63-3	Radium-226	2.9+/-0.3		pCi/L	0.2	NA	1	09/01/05 00:00	MJN	EPA 903.1	NONE
15262-20-1	Radium-228	1.0+/-0.7	U	pCi/L	1.0	NA	1	09/01/05 00:00	PJ	Ra-05	NONE

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DIV Work Order: OOH0395 Sampled: 08/22/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROG.- Pr Received: 08/22/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

CERTIFICATION SUMMARY

TestAmerica Analytical - Orlando

Method	Matrix	Nelac	Florida
EPA 120.1	Water - NonPotable	X	X
EPA 150.1	Water - NonPotable	X	X
EPA 160.1	Water - NonPotable	X	X
EPA 160.2	Water - NonPotable	X	X
EPA 170.1	Water - NonPotable		
EPA 180.1	Water - NonPotable	X	X
EPA 300.0	Water - NonPotable	X	X
EPA 350.1	Water - NonPotable	X	X
EPA 360.2	Water - NonPotable		
EPA 415.1	Water - NonPotable	X	X
EPA 6010B	Water - NonPotable	X	X
EPA 7470A	Water - NonPotable	X	X
EPA 8011	Water - NonPotable	X	X
EPA 8260B	Water - NonPotable	X	X
EPA 900.0	Water - NonPotable		
EPA 903.1	Water - NonPotable		
Ra-05	Water - NonPotable		

Subcontracted Laboratories

Florida Radiochemistry Services Inc. Florida Cert #E83033, North Carolina Cert #12709, South Carolina Cert #96037001, Tennessee Cert ##02928

5456 Hoffner Road Suite 201 - Orlando, FLORIDA 32812

Method Performed: EPA 900.0

Samples: OOH0395-01, OOH0395-02, OOH0395-03, OOH0395-04

Method Performed: EPA 903.1

Samples: OOH0395-01, OOH0395-02, OOH0395-03, OOH0395-04

Method Performed: Ra-05

Samples: OOH0395-01, OOH0395-02, OOH0395-03, OOH0395-04

DATA QUALIFIERS AND DEFINITIONS

- I** The reported value is between the laboratory method detection limit and method reporting limit.
- J1** Surrogate recovery limits have been exceeded.
- J4** The sample matrix interfered with the ability to make an accurate determination.
- U** The compound was analyzed for but not detected
- V** The analyte was detected in both the sample and the associated method blank.

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

Enid Ortiz For Judy Beato

Project Manager

Client: TestAmerica - Orlando (8708)
4310 East Anderson Road
Orlando, FL 32812
Attn: Judy Beato

Work Order: NOI2772
Project: TA-Orlando
Project Number: OOH0395

Sampled: 08/22/05
Received: 09/24/05

LABORATORY REPORT

Sample ID: OOH0395-01 - Lab Number: NOI2772-01 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Total Metals by EPA Method 6010B											
7439-92-1	Lead	0.00240	U	mg/L	0.00240	0.00500	1	09/29/05 15:48	CLO	SW846 6010B	5094421

Client: TestAmerica - Orlando (8708)
4310 East Anderson Road
Orlando, FL 32812
Attn: Judy Beato

Work Order: NOI2772
Project: TA-Orlando
Project Number: OOH0395

Sampled: 08/22/05
Received: 09/24/05

LABORATORY REPORT

Sample ID: OOH0395-02 - Lab Number: NOI2772-02 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Total Metals by EPA Method 6010B											
7439-92-1	Lead	0.00320	I	mg/L	0.00240	0.00500	I	09/29/05 15:52	CLO	SW846 6010B	5094421

Client: TestAmerica - Orlando (8708)
4310 East Anderson Road
Orlando, FL 32812
Attn: Judy Beato

Work Order: NOI2772
Project: TA-Orlando
Project Number: OOH0395

Sampled: 08/22/05
Received: 09/24/05

LABORATORY REPORT

Sample ID: OOH0395-03 - Lab Number: NOI2772-03 - Matrix: Water

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Total Metals by EPA Method 6010B											
7439-92-1	Lead	0.00240	U	mg/L	0.00240	0.00500	1	09/29/05 15:56	CLO	SW846 6010B	5094421

Client: TestAmerica - Orlando (8708)
4310 East Anderson Road
Orlando, FL 32812
Attn: Judy Beato

Work Order: NOI2772
Project: TA-Orlando
Project Number: OOH0395

Sampled: 08/22/05
Received: 09/24/05

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	A2LA	AIHA	Nelac	Florida
SW846 6010B	Water	X		X	X

DATA QUALIFIERS AND DEFINITIONS

I The reported value is between the laboratory method detection limit and method reporting limit.
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.