

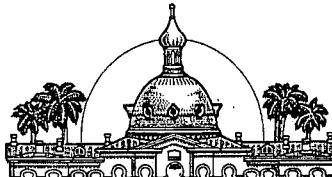
100494

# Dept. of Environmental Protection

OCT 11 2006

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October 4, 2006

GW  
SW  
PRIVATE WELLS

Mr. John Morris, P.G.  
 Department of Environmental Protection  
 Southwest District-Solid Waste Section  
 13051 Telecom Parkway  
 Temple Terrace, FL 33637

**Re: Southeast County Landfill  
 Permit Nos. 35435-006-SO, 35435-007-SO  
 Analytical Data Report - August 2006**

Dear Mr. Morris:

In accordance with the above-referenced permits, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the August 2006 analytical data report (ADR) for the water quality monitoring at the Southeast County Landfill (SCLF). Samples were collected on August 14 through August 17, 2006 by the SWMD Field Sampling Team. Any 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.

### **FIELD PARAMETERS**

#### **pH**

The surficial aquifer detection and background water 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 4.47 to 6.39 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 supports the position that the pH values observed are attributable to the phosphate mining activities conducted at the site prior to construction of the landfill.

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.

# Dept. of Environmental Protection

Mr. John Morris, P.G.  
October 4, 2006  
Page 2

OCT 11 2006

## 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 recorded turbidity data at the three sampling points along Long Flat Creek. A summary table of data obtained from the surface water sampling points 3A, 3B2B and 3C2 is provided within this ADR. Over the period of record from March to August 2006, the turbidity measurements have been observed within the compliance level of 29 nephelometric turbidity units (NTU) above the background (upstream) value.

No unusual conditions or changes in the turbidity values across the site were observed during this sampling event.

## Southwest District

## **GENERAL PARAMETERS**

### Total Dissolved Solids

The surficial aquifer detection wells, TH-59 and TH-60, exhibited total dissolved solids (TDS) above the Secondary Drinking Water Standard (SDWS) of 500 milligrams per liter (mg/l) with concentrations of 560 mg/l and 750 mg/l. These wells have consistently exhibited TDS above standards, and were constructed in an area that had been reworked during construction and filled with offsite fill materials prior to construction of these detection wells addressing Section 7. All of 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 11.3 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 above the PDWS. No unusual conditions or changes in radium 226 values were observed during this sampling event, and the home owner shall be appropriately notified of this condition. The detection of this radiological parameter in the Weeks' private supply well is not readily attributable to the landfill operations, and is likely attributable to the past strip mining activities in the area.

### Fecal Coliform

The surface water sampling point 3B2B, which is the middle data point on Long Flat Creek, exhibited concentrations of fecal coliform at 1,100 colonies per 100 milliliter (col/100ml). This value is above the Surface Water Standard of 800 col/100ml. No other surface water sites exceeded the standard during this event, and the SWMD believes that the coliform is likely attributable to bird activity in the vicinity.

Mr. John Morris, P.G.  
October 4, 2006  
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## ***METALS***

### **Iron**

Iron concentrations in fourteen of the eighteen surficial aquifer monitoring wells were observed above the SDWS of 0.300 mg/l. The highest concentration for iron was 9.5 mg/l in detection well TH-65. 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 concentrations observed prior to construction of the landfill, the iron historically observed across the site is likely attributable to the past mining activities. Additionally, as presented to the FDEP by our contracted consultant, Jones Edmunds, the landfill liner systems have created anaerobic environments under the lined cells of Sections 7 and 8. These environments are known to facilitate iron reducing bacteria processes which result in the higher iron concentrations in the areas down gradient of these liner systems. It should also be noted that areas at the SCLF that have been disturbed by mining or landfill construction activities appear to exhibit the highest iron concentrations. Based on these potential sources of iron in the groundwater at the site, the SWMD maintains the position that the source of iron is not the buried wastes within the landfill.

The private supply wells owned by Weeks and Holland exhibited levels of iron above the SDWS with concentrations of 0.59 mg/l and 1.9 mg/l, respectively. These wells consistently exhibit iron above the SDWS. 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.

Iron exceeded the surface water criteria of 1 mg/l as per Chapter 62-302, F.A.C. at the surface water monitoring point 3B2B. A value of 1.5 mg/l was observed at this location during this sampling event.

### **Nickel**

Nickel was observed in TH-59, TH-59C, and TH-60 below the PDWS of 0.1 mg/l during this sampling event. Nickel has consistently been observed in these wells since the initial samples were collected in October 2003 prior to waste being placed in the Section 7 cell.

## ***ORGANIC PARAMETERS***

The organic parameters were analyzed by EPA Method 8260. The results of analyses are discussed in detail in the following paragraphs. Benzene was observed in the Section 7 detection monitoring well TH-60 below the PDWS of 1 microgram per liter (ug/l) at a concentration of 0.85 ug/l. Toluene was observed well below the SDWS of 1,000 ug/l in Section 7 detection wells TH-59C and TH-60C with results of 1.3 ug/l and 5.3 ug/l, respectively.

Mr. John Morris, P.G.  
October 4, 2006  
Page 4

The SWMD maintains the position that the impacts to the Section 7 detection wells are the direct result of landfill gas migration from Section 7. Residual effects from the previous presence of landfill gas remain in the area, and trace concentrations are observed in the monitoring wells in this area.

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 next sampling event is scheduled for November 2006, and this quarterly event will address the Phases I – VI modified permit conditions.

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](mailto:adamsds@hillsboroughcounty.org).

Sincerely,



David S. Adams, P.G.  
Environmental Manager  
Solid Waste Management

10/4/2006



DSA/mdt

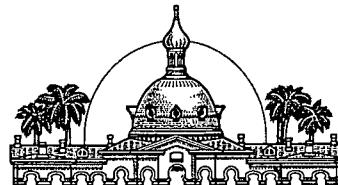
Enclosures

xc: Barry M. Boldissar, Director, SWMD, w/o enclosures  
Patricia Berry, Section Manager, SWMD, w/o enclosures  
Ernest Ely, Landfill Manager, WM, Southeast Landfill  
Larry Ruiz, Project Manager, SWMD  
Rich Siemering, Jones Edmunds  
Chongman Lee, Department of Environmental Protection  
Andy Schipfer, Environmental Protection Commission  
Irene Barnes, Southeast Hillsborough Civic Association

# Analytical Results from Private Well Samples at the Southeast Landfill

August 14, 2006

GENERAL (mg/l) PARAMETERS	Private Wells			(MCL) STANDARD F.A.C. 62-550
	Weeks	Holland	Barnes	
conductivity (umhos/cm) (field)	514	374	325	NS
pH (field)	6.77	6.95	7.48	(6.5 - 8.5)**
total dissolved solids (mg/l)	300	220	210	500**
temperature (°C) (field)	24.44	24.52	27.2	NS
turbidity (NTU) (field)	3	1.5	1.8	NS
chloride (mg/l)	35	22	11	250**
ammonia nitrogen (mg/l as N)	0.36	0.29	0.59	NS
nitrate (mg/l as N)	BDL	BDL	BDL	10*
dissolved oxygen (mg/l) (field)	1	0.08	5.26	NS
total alpha (pCi/l)	12.5	3.4	3.7	15*
radium 226 (pCi/l)	11.3	3.3	0.6	5*
radium 228 (pCi/l)	BDL	BDL	BDL	5*
<hr/>				
Metals: (mg/l)	Private Wells			(MCL) STANDARD F.A.C. 62-550
	Weeks	Holland	Barnes	
iron	0.590	1.9	0.1	0.3**
chromium	BDL	BDL	BDL	0.2
cobalt	BDL	BDL	BDL	140***
copper	BDL	BDL	0.0039	1**
barium	0.006	0.0053	0.014	2*
arsenic	BDL	BDL	BDL	0.01*
lead	0.0023	BDL	BDL	0.015*
sodium	8.9	5.5	9.3	160*
mercury	BDL	BDL	BDL	0.002
zinc	0.18	0.1	0.032	5**
antimony	BDL	BDL	BDL	.006*
nickel	BDL	BDL	BDL	0.1*
<hr/>				
Organics: (µg/l)	Private Wells			(MCL) STANDARD F.A.C. 62-550
	Weeks	Holland	Barnes	
Organic Parameters Detected	BDL	BDL	BDL	7*
1,1-dichloroethene	BDL	BDL	BDL	7*
<hr/>				
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				
19.1 : 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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Patricia G. Bean

October 4, 2006

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 14, 2006. The parameters tested are within Florida Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

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

Sincerely,

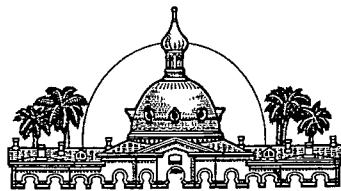
A handwritten signature in black ink, appearing to read "Michael D. Townsel".

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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Manus J. O'Donnell

October 4, 2006

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 14, 2006. Iron was observed at a concentration of 1.9 mg/l which is above the Florida Secondary Drinking Water Standard (FAC Ch 62-550.320) of 0.30 mg/l. All other parameters are within Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

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,

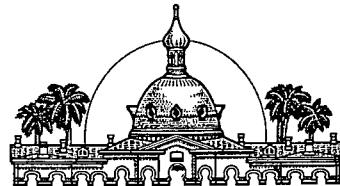
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Michael D. Townsel  
Hydrologist  
Solid Waste Management Department

mdt

Enclosures

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



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Kenneth C. Griffin  
Carl S. Harness  
Manus J. O' Donnell

October 4, 2006

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 14, 2006. Iron was observed at a concentration of 0.59 mg/l. This value exceeds the Florida Secondary Drinking Water Standard (FAC Ch 62-550.320) of 0.30 mg/l. Radium 226 was also observed at a concentration of 11.3 pCi/l, respectfully. This value exceeds the Florida Primary Drinking Water Standard (FAC Ch 62-550.310) 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

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-10669-1

Client Sample ID: Equipment Blank  
Lab Sample ID: 660-10669-1

Date Sampled: 08/14/2006 0915  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Analyzed:	08/23/2006 2116			
Prep Method: 5030B	Date Prepared:	08/23/2006 2116			
Acetone	9.9	U	ug/L	9.9	20
Acrylonitrile	1.2	U	ug/L	1.2	100
Benzene	0.50	U	ug/L	0.50	1.0
Bromodichloromethane	0.35	U	ug/L	0.35	1.0
Bromoform	0.58	U	ug/L	0.58	1.0
Bromomethane	2.5	U	ug/L	2.5	5.0
Methyl Ethyl Ketone	8.4	U	ug/L	8.4	10
Carbon disulfide	0.85	U	ug/L	0.85	1.0
Carbon tetrachloride	0.42	U	ug/L	0.42	1.0
Chlorobenzene	0.63	U	ug/L	0.63	1.0
Bromochloromethane	0.58	U	ug/L	0.58	1.0
Chloroethane	2.5	U	ug/L	2.5	5.0
Chloroform	0.90	U	ug/L	0.90	1.0
1,2-Dichlorobenzene	0.44	U	ug/L	0.44	1.0
Chloromethane	1.0	U	ug/L	1.0	4.0
Dibromochloromethane	0.34	U	ug/L	0.34	1.0
Dibromomethane	0.41	U	ug/L	0.41	1.0
trans-1,4-Dichloro-2-butene	2.5	U	ug/L	2.5	10
1,4-Dichlorobenzene	0.52	U	ug/L	0.52	1.0
1,1-Dichloroethane	0.52	U	ug/L	0.52	1.0
1,2-Dichloroethane	0.57	U	ug/L	0.57	1.0
1,1-Dichloroethene	0.45	U	ug/L	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	ug/L	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	ug/L	0.44	1.0
1,2-Dichloropropane	0.52	U	ug/L	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0
Ethylbenzene	0.44	U	ug/L	0.44	1.0
2-Hexanone	4.4	U	ug/L	4.4	10
Iodomethane	2.5	U	ug/L	2.5	5.0
4-Methyl-2-pentanone	3.8	U	ug/L	3.8	10
Methylene Chloride	4.0	U	ug/L	4.0	5.0
Styrene	0.98	U	ug/L	0.98	2.0
1,1,2,2-Tetrachloroethane	0.14	U	ug/L	0.14	1.0
1,1,1,2-Tetrachloroethane	0.63	U	ug/L	0.63	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	1.0
Toluene	0.51	U	ug/L	0.51	1.0
1,1,1-Trichloroethane	0.46	U	ug/L	0.46	1.0
1,1,2-Trichloroethane	0.47	U	ug/L	0.47	1.0
Trichloroethene	0.50	U	ug/L	0.50	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-10669-1

**Client Sample ID: Equipment Blank**  
**Lab Sample ID: 660-10669-1**

Date Sampled: 08/14/2006 0915  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	08/23/2006 2116			
<b>Prep Method: 5030B</b>	Date Prepared:	08/23/2006 2116			
Trichlorofluoromethane	2.5	U	ug/L	2.5	5.0
1,2,3-Trichloropropane	0.15	U	ug/L	0.15	1.0
Vinyl acetate	1.5	U	ug/L	1.5	10
Vinyl chloride	0.50	U	ug/L	0.50	1.0
Xylenes, Total	0.50	U	ug/L	0.50	3.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene	93	%		74 - 126	
Dibromofluoromethane	109	%		70 - 130	
Toluene-d8 (Surr)	106	%		77 - 122	
<b>Method: 504.1</b>	Date Analyzed:	08/21/2006 2211			
<b>Prep Method: 504.1</b>	Date Prepared:	08/21/2006 1500			
Ethylene Dibromide	0.0041	U	ug/L	0.0041	0.018
1,2-Dibromo-3-Chloropropane	0.0025	U	ug/L	0.0025	0.018
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/16/2006 2008			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Silver	1.9	U	ug/L	1.9	10
Arsenic	4.8	U	ug/L	4.8	10
Barium	2.1	I	ug/L	1.2	10
Beryllium	0.74	U	ug/L	0.74	4.0
Cadmium	0.71	U	ug/L	0.71	5.0
Cobalt	1.4	U	ug/L	1.4	10
Chromium	1.7	U	ug/L	1.7	10
Copper	2.9	U	ug/L	2.9	20
Sodium	0.58		mg/L	0.15	0.50
Nickel	4.7	U	ug/L	4.7	40
Lead	1.6	U	ug/L	1.6	5.0
Antimony	2.9	U	ug/L	2.9	6.0
Selenium	5.9	U	ug/L	5.9	10
Thallium	0.50	U	ug/L	0.50	1.0
Vanadium	2.5	U	ug/L	2.5	5.0
Zinc	6.4	I	ug/L	5.9	20
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/17/2006 1710			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Iron	39	U	ug/L	39	100

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-10669-1

**Client Sample ID:** Equipment Blank  
**Lab Sample ID:** 660-10669-1

Date Sampled: 08/14/2006 0915  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	08/21/2006 1007			
<b>Prep Method: 7470A</b>	Date Prepared:	08/17/2006 1531			
Mercury	0.080 U	ug/L	0.080	0.20	1.0
<b>Method: 325.2</b>	Date Analyzed:	08/18/2006 1028			
Chloride	3.0 U	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	08/27/2006 1200			
Ammonia (as N)	0.64	mg/L	0.025	0.10	1.0
<b>Method: 353.2</b>	Date Analyzed:	08/16/2006 0811			
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	08/22/2006 0028			
Total Organic Carbon	0.53 U	mg/L	0.53	2.0	1.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-10669-1

**Client Sample ID:** Equipment Blank  
**Lab Sample ID:** 660-10669-1

Date Sampled: 08/14/2006 0915  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
Method: 160.1	Date Analyzed:	08/16/2006 1600			
Total Dissolved Solids	5.0	U mg/L	5.0	5.0	1.0
Method: 160.2	Date Analyzed:	08/16/2006 1706			
Total Suspended Solids	1.0	U mg/L	1.0	1.0	1.0



LABORATORY SERVICES

2742 N. Florida Ave.  
P.O. Box 1833  
Tampa, Florida 33601  
(813) 229-2879  
Fax (813) 229-0002

Report Date: August 31, 2006

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Attn: Dr. Shibu Paul

Field Custody: Client  
Client/Field ID: 660-10669-1  
Equipment blank  
Sample Collection: 8-14-06  
Lab ID No: 7615  
Lab Custody Date: 8-16-06  
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results		Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.0	± 0.4	08-28-06/0800	EPA 900.0	0.8
Radium-226	pCi/l	0.2	± 0.5	08-31-06/0800	EPA 903.0	0.9
Radium-228	pCi/l	0.0	± 0.6	08-29-06/1300	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in cursive ink that reads "James W. Hayes".

James W. Hayes  
Laboratory Manager

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-10669-1

**Client Sample ID: Barnes**  
**Lab Sample ID: 660-10669-2**

Date Sampled: 08/14/2006 1140  
Date Received: 08/14/2006 1415  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
<b>Method: Field Sampling</b>	Date Analyzed:	08/14/2006 1140		
Field pH	7.48	SU	1.0	
Field Temperature	27.20	Degrees C	1.0	
Oxygen, Dissolved	5.26	mg/L	1.0	
Specific Conductance	325	umhos/cm	1.0	
Turbidity	1.8	NTU	1.0	

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-10669-1

Client Sample ID: Barnes  
Lab Sample ID: 660-10669-2

Date Sampled: 08/14/2006 1140  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	08/23/2006 2136			
<b>Prep Method: 5030B</b>	Date Prepared:	08/23/2006 2136			
Acetone	9.9	U	ug/L	9.9	20
Acrylonitrile	1.2	U	ug/L	1.2	100
Benzene	0.50	U	ug/L	0.50	1.0
Bromodichloromethane	0.35	U	ug/L	0.35	1.0
Bromoform	0.58	U	ug/L	0.58	1.0
Bromomethane	2.5	U	ug/L	2.5	5.0
Methyl Ethyl Ketone	8.4	U	ug/L	8.4	10
Carbon disulfide	0.85	U	ug/L	0.85	1.0
Carbon tetrachloride	0.42	U	ug/L	0.42	1.0
Chlorobenzene	0.63	U	ug/L	0.63	1.0
Bromochloromethane	0.58	U	ug/L	0.58	1.0
Chloroethane	2.5	U	ug/L	2.5	5.0
Chloroform	0.90	U	ug/L	0.90	1.0
1,2-Dichlorobenzene	0.44	U	ug/L	0.44	1.0
Chloromethane	1.0	U	ug/L	1.0	4.0
Dibromochloromethane	0.34	U	ug/L	0.34	1.0
Dibromomethane	0.41	U	ug/L	0.41	1.0
trans-1,4-Dichloro-2-butene	2.5	U	ug/L	2.5	10
1,4-Dichlorobenzene	0.52	U	ug/L	0.52	1.0
1,1-Dichloroethane	0.52	U	ug/L	0.52	1.0
1,2-Dichloroethane	0.57	U	ug/L	0.57	1.0
1,1-Dichloroethene	0.45	U	ug/L	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	ug/L	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	ug/L	0.44	1.0
1,2-Dichloropropane	0.52	U	ug/L	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0
Ethylbenzene	0.44	U	ug/L	0.44	1.0
2-Hexanone	4.4	U	ug/L	4.4	10
Iodomethane	2.5	U	ug/L	2.5	5.0
4-Methyl-2-pentanone	3.8	U	ug/L	3.8	10
Methylene Chloride	4.0	U	ug/L	4.0	5.0
Styrene	0.98	U	ug/L	0.98	2.0
1,1,2,2-Tetrachloroethane	0.14	U	ug/L	0.14	1.0
1,1,1,2-Tetrachloroethane	0.63	U	ug/L	0.63	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	1.0
Toluene	0.51	U	ug/L	0.51	1.0
1,1,1-Trichloroethane	0.46	U	ug/L	0.46	1.0
1,1,2-Trichloroethane	0.47	U	ug/L	0.47	1.0
Trichloroethene	0.50	U	ug/L	0.50	1.0

OCT 11 2006

Job Number: 660-10669-1

Mr. Jim Clayton  
 Hillsborough County  
 Solid Waste Management Department  
 PO BOX 1110  
 24th Floor  
 Tampa, FL 33601

## Southwest District

**Client Sample ID: Barnes**  
**Lab Sample ID: 660-10669-2**

Date Sampled: 08/14/2006 1140  
 Date Received: 08/14/2006 1415  
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	08/23/2006 2136			
<b>Prep Method: 5030B</b>	Date Prepared:	08/23/2006 2136			
Trichlorofluoromethane	2.5	U	ug/L	2.5	5.0
1,2,3-Trichloropropane	0.15	U	ug/L	0.15	1.0
Vinyl acetate	1.5	U	ug/L	1.5	10
Vinyl chloride	0.50	U	ug/L	0.50	1.0
Xylenes, Total	0.50	U	ug/L	0.50	3.0
<b>Surrogate</b>		<b>Acceptance Limits</b>			
4-Bromofluorobenzene	91	%		74 - 126	
Dibromofluoromethane	107	%		70 - 130	
Toluene-d8 (Surr)	106	%		77 - 122	
<b>Method: 504.1</b>	Date Analyzed:	08/21/2006 2226			
<b>Prep Method: 504.1</b>	Date Prepared:	08/21/2006 1500			
Ethylene Dibromide	0.0042	U	ug/L	0.0042	0.019
1,2-Dibromo-3-Chloropropane	0.0026	U	ug/L	0.0026	0.019
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/16/2006 2028			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Silver	1.9	U	ug/L	1.9	10
Arsenic	4.8	U	ug/L	4.8	10
Barium	14	U	ug/L	1.2	10
Beryllium	0.74	U	ug/L	0.74	4.0
Cadmium	0.71	U	ug/L	0.71	5.0
Cobalt	1.4	U	ug/L	1.4	10
Chromium	1.7	U	ug/L	1.7	10
Copper	3.9	I	ug/L	2.9	20
Sodium	9.3		mg/L	0.15	0.50
Nickel	4.7	U	ug/L	4.7	40
Lead	1.6	U	ug/L	1.6	5.0
Antimony	2.9	U	ug/L	2.9	6.0
Selenium	5.9	U	ug/L	5.9	10
Thallium	0.50	U	ug/L	0.50	1.0
Vanadium	2.5	U	ug/L	2.5	5.0
Zinc	32		ug/L	5.9	20
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/17/2006 1717			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Iron	100		ug/L	39	100

Mr. Jim Clayton  
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Job Number: 660-10669-1

**Client Sample ID:** Barnes  
**Lab Sample ID:** 660-10669-2

Date Sampled: 08/14/2006 1140  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	08/17/2006 1453			
<b>Prep Method: 7470A</b>	Date Prepared:	08/17/2006 0923			
Mercury	0.080 U	ug/L	0.080	0.20	1.0
<b>Method: 325.2</b>	Date Analyzed:	08/18/2006 1028			
Chloride	11	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	08/27/2006 1200			
Ammonia (as N)	0.59	mg/L	0.025	0.10	1.0
<b>Method: 353.2</b>	Date Analyzed:	08/16/2006 0811			
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	08/22/2006 0048			
Total Organic Carbon	1.1 I	mg/L	1.1	4.0	2.0

Mr. Jim Clayton  
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Job Number: 660-10669-1

**Client Sample ID: Barnes**  
**Lab Sample ID: 660-10669-2**

Date Sampled: 08/14/2006 1140  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	08/16/2006 1600			
Total Dissolved Solids	210	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	08/16/2006 1706			
Total Suspended Solids	1.0	U	mg/L	1.0	1.0



LABORATORY SERVICES

2742 N. Florida Ave.  
P.O. Box 1833  
Tampa, Florida 33601  
(813) 229-2879  
Fax (813) 229-0002

Report Date: August 31, 2006

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Field Custody: Client  
Client/Field ID: 660-10669-2  
Barnes  
Sample Collection: 8-14-06  
Lab ID No: 7616  
Lab Custody Date: 8-16-06  
Sample description: Water

Attn: Dr. Shibu Paul

CERTIFICATE OF ANALYSIS

Parameter	Units	Results		Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.7	± 1.2	08-29-06/0900	EPA 900.0	1.2
Radium-226	pCi/l	0.6	± 0.6	08-31-06/0800	EPA 903.0	1.0
Radium-228	pCi/l	0.0	± 0.7	08-29-06/1300	EPA Ra-05	1.0
Alpha Standard:	Th-230					

*James W. Hayes*

James W. Hayes  
Laboratory Manager

Dept. of Environment  
Protection

OCT 11 2006

Job Number: 660-10669-1

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
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## Southwest District

Client Sample ID: Holland  
Lab Sample ID: 660-10669-3

Date Sampled: 08/14/2006 1100  
Date Received: 08/14/2006 1415  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Analyzed:	08/14/2006 1100		
Field pH	6.95	SU		1.0
Field Temperature	24.52	Degrees C		1.0
Oxygen, Dissolved	0.08	mg/L		1.0
Specific Conductance	374	umhos/cm		1.0
Turbidity	1.5	NTU		1.0

Mr. Jim Clayton  
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Job Number: 660-10669-1

Client Sample ID: Holland  
Lab Sample ID: 660-10669-3

Date Sampled: 08/14/2006 1100  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	08/23/2006 2156			
<b>Prep Method: 5030B</b>	Date Prepared:	08/23/2006 2156			
Acetone	9.9	ug/L	9.9	20	1.0
Acrylonitrile	1.2	ug/L	1.2	100	1.0
Benzene	0.50	ug/L	0.50	1.0	1.0
Bromodichloromethane	0.35	ug/L	0.35	1.0	1.0
Bromoform	0.58	ug/L	0.58	1.0	1.0
Bromomethane	2.5	ug/L	2.5	5.0	1.0
Methyl Ethyl Ketone	8.4	ug/L	8.4	10	1.0
Carbon disulfide	0.85	ug/L	0.85	1.0	1.0
Carbon tetrachloride	0.42	ug/L	0.42	1.0	1.0
Chlorobenzene	0.63	ug/L	0.63	1.0	1.0
Bromochloromethane	0.58	ug/L	0.58	1.0	1.0
Chloroethane	2.5	ug/L	2.5	5.0	1.0
Chloroform	0.90	ug/L	0.90	1.0	1.0
1,2-Dichlorobenzene	0.44	ug/L	0.44	1.0	1.0
Chloromethane	1.0	ug/L	1.0	4.0	1.0
Dibromochloromethane	0.34	ug/L	0.34	1.0	1.0
Dibromomethane	0.41	ug/L	0.41	1.0	1.0
trans-1,4-Dichloro-2-butene	2.5	ug/L	2.5	10	1.0
1,4-Dichlorobenzene	0.52	ug/L	0.52	1.0	1.0
1,1-Dichloroethane	0.52	ug/L	0.52	1.0	1.0
1,2-Dichloroethane	0.57	ug/L	0.57	1.0	1.0
1,1-Dichloroethene	0.45	ug/L	0.45	1.0	1.0
cis-1,2-Dichloroethene	0.65	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	0.44	ug/L	0.44	1.0	1.0
1,2-Dichloropropane	0.52	ug/L	0.52	1.0	1.0
cis-1,3-Dichloropropene	0.14	ug/L	0.14	1.0	1.0
trans-1,3-Dichloropropene	0.14	ug/L	0.14	1.0	1.0
Ethylbenzene	0.44	ug/L	0.44	1.0	1.0
2-Hexanone	4.4	ug/L	4.4	10	1.0
Iodomethane	2.5	ug/L	2.5	5.0	1.0
4-Methyl-2-pentanone	3.8	ug/L	3.8	10	1.0
Methylene Chloride	4.0	ug/L	4.0	5.0	1.0
Styrene	0.98	ug/L	0.98	2.0	1.0
1,1,2,2-Tetrachloroethane	0.14	ug/L	0.14	1.0	1.0
1,1,1,2-Tetrachloroethane	0.63	ug/L	0.63	1.0	1.0
Tetrachloroethene	0.50	ug/L	0.50	1.0	1.0
Toluene	0.51	ug/L	0.51	1.0	1.0
1,1,1-Trichloroethane	0.46	ug/L	0.46	1.0	1.0
1,1,2-Trichloroethane	0.47	ug/L	0.47	1.0	1.0
Trichloroethene	0.50	ug/L	0.50	1.0	1.0

Mr. Jim Clayton  
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Job Number: 660-10669-1

**Client Sample ID: Holland**  
**Lab Sample ID: 660-10669-3**

Date Sampled: 08/14/2006 1100  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	08/23/2006 2156			
<b>Prep Method: 5030B</b>	Date Prepared:	08/23/2006 2156			
Trichlorofluoromethane	2.5	U	ug/L	2.5	5.0
1,2,3-Trichloropropane	0.15	U	ug/L	0.15	1.0
Vinyl acetate	1.5	U	ug/L	1.5	10
Vinyl chloride	0.50	U	ug/L	0.50	1.0
Xylenes, Total	0.50	U	ug/L	0.50	3.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene	93	%		74 - 126	
Dibromofluoromethane	110	%		70 - 130	
Toluene-d8 (Surr)	107	%		77 - 122	
<b>Method: 504.1</b>	Date Analyzed:	08/21/2006 2240			
<b>Prep Method: 504.1</b>	Date Prepared:	08/21/2006 1500			
Ethylene Dibromide	0.0042	U	ug/L	0.0042	0.019
1,2-Dibromo-3-Chloropropane	0.0026	U	ug/L	0.0026	0.019
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/16/2006 2035			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Silver	1.9	U	ug/L	1.9	10
Arsenic	4.8	U	ug/L	4.8	10
Barium	5.3	I	ug/L	1.2	10
Beryllium	0.74	U	ug/L	0.74	4.0
Cadmium	0.71	U	ug/L	0.71	5.0
Cobalt	1.4	U	ug/L	1.4	10
Chromium	1.7	U	ug/L	1.7	10
Copper	2.9	U	ug/L	2.9	20
Sodium	5.5		mg/L	0.15	0.50
Nickel	4.7	U	ug/L	4.7	40
Lead	1.6	U	ug/L	1.6	5.0
Antimony	2.9	U	ug/L	2.9	6.0
Selenium	5.9	U	ug/L	5.9	10
Thallium	0.50	U	ug/L	0.50	1.0
Vanadium	2.5	U	ug/L	2.5	5.0
Zinc	100		ug/L	5.9	20
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/17/2006 1724			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Iron	1900		ug/L	39	100

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
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Job Number: 660-10669-1

**Client Sample ID:** Holland  
**Lab Sample ID:** 660-10669-3

Date Sampled: 08/14/2006 1100  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	08/17/2006 1455			
<b>Prep Method: 7470A</b>	Date Prepared:	08/17/2006 0923			
Mercury	0.080 U	ug/L	0.080	0.20	1.0
<b>Method: 325.2</b>	Date Analyzed:	08/18/2006 1028			
Chloride	22	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	08/27/2006 1200			
Ammonia (as N)	0.29	mg/L	0.025	0.10	1.0
<b>Method: 353.2</b>	Date Analyzed:	08/16/2006 0811			
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	08/22/2006 0108			
Total Organic Carbon	1.7 I	mg/L	1.1	4.0	2.0

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
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Tampa, FL 33601

Job Number: 660-10669-1

**Client Sample ID: Holland  
Lab Sample ID: 660-10669-3**

Date Sampled: 08/14/2006 1100  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	08/16/2006 1600			
Total Dissolved Solids	220	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	08/16/2006 1706			
Total Suspended Solids	3.2	mg/L	1.0	1.0	1.0



LABORATORY SERVICES

2742 N. Florida Ave.  
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Tampa, Florida 33601  
(813) 229-2879  
Fax (813) 229-0002

Report Date: August 31, 2006

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Field Custody: Client  
Client/Field ID: 660-10669-3  
Holland  
Sample Collection: 8-14-06  
  
Lab ID No: 7617  
Lab Custody Date: 8-16-06  
Sample description: Water

Attn: Dr. Shibu Paul

CERTIFICATE OF ANALYSIS

Parameter	Units	Results		Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.4	± 1.1	08-29-06/0900	EPA 900.0	1.2
Radium-226	pCi/l	3.3	± 1.1	08-31-06/0800	EPA 903.0	0.9
Radium-228	pCi/l	0.0	± 0.7	08-29-06/1300	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes  
Laboratory Manager

Test results meet all requirements of NELAC standards.  
Contact person: Jim Hayes (813) 229-2879.

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
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Tampa, FL 33601

Job Number: 660-10669-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-10669-4

Date Sampled: 08/14/2006 1020  
Date Received: 08/14/2006 1415  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
<b>Method:</b> Field Sampling	Date Analyzed:	08/14/2006 1020		
Field pH	6.77	SU	1.0	
Field Temperature	24.44	Degrees C	1.0	
Oxygen, Dissolved	1.00	mg/L	1.0	
Specific Conductance	514	umhos/cm	1.0	
Turbidity	3.0	NTU	1.0	

Mr. Jim Clayton  
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Job Number: 660-10669-1

Client Sample ID: Weeks  
Lab Sample ID: 660-10669-4

Date Sampled: 08/14/2006 1020  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Analyzed:	08/23/2006 2216			
Prep Method: 5030B	Date Prepared:	08/23/2006 2216			
Acetone	9.9	ug/L	9.9	20	1.0
Acrylonitrile	1.2	ug/L	1.2	100	1.0
Benzene	0.50	ug/L	0.50	1.0	1.0
Bromodichloromethane	0.35	ug/L	0.35	1.0	1.0
Bromoform	0.58	ug/L	0.58	1.0	1.0
Bromomethane	2.5	ug/L	2.5	5.0	1.0
Methyl Ethyl Ketone	8.4	ug/L	8.4	10	1.0
Carbon disulfide	0.85	ug/L	0.85	1.0	1.0
Carbon tetrachloride	0.42	ug/L	0.42	1.0	1.0
Chlorobenzene	0.63	ug/L	0.63	1.0	1.0
Bromochloromethane	0.58	ug/L	0.58	1.0	1.0
Chloroethane	2.5	ug/L	2.5	5.0	1.0
Chloroform	0.90	ug/L	0.90	1.0	1.0
1,2-Dichlorobenzene	0.44	ug/L	0.44	1.0	1.0
Chloromethane	1.0	ug/L	1.0	4.0	1.0
Dibromochloromethane	0.34	ug/L	0.34	1.0	1.0
Dibromomethane	0.41	ug/L	0.41	1.0	1.0
trans-1,4-Dichloro-2-butene	2.5	ug/L	2.5	10	1.0
1,4-Dichlorobenzene	0.52	ug/L	0.52	1.0	1.0
1,1-Dichloroethane	0.52	ug/L	0.52	1.0	1.0
1,2-Dichloroethane	0.57	ug/L	0.57	1.0	1.0
1,1-Dichloroethene	0.45	ug/L	0.45	1.0	1.0
cis-1,2-Dichloroethene	0.65	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	0.44	ug/L	0.44	1.0	1.0
1,2-Dichloropropane	0.52	ug/L	0.52	1.0	1.0
cis-1,3-Dichloropropene	0.14	ug/L	0.14	1.0	1.0
trans-1,3-Dichloropropene	0.14	ug/L	0.14	1.0	1.0
Ethylbenzene	0.44	ug/L	0.44	1.0	1.0
2-Hexanone	4.4	ug/L	4.4	10	1.0
Iodomethane	2.5	ug/L	2.5	5.0	1.0
4-Methyl-2-pentanone	3.8	ug/L	3.8	10	1.0
Methylene Chloride	4.0	ug/L	4.0	5.0	1.0
Styrene	0.98	ug/L	0.98	2.0	1.0
1,1,2,2-Tetrachloroethane	0.14	ug/L	0.14	1.0	1.0
1,1,1,2-Tetrachloroethane	0.63	ug/L	0.63	1.0	1.0
Tetrachloroethene	0.50	ug/L	0.50	1.0	1.0
Toluene	0.51	ug/L	0.51	1.0	1.0
1,1,1-Trichloroethane	0.46	ug/L	0.46	1.0	1.0
1,1,2-Trichloroethane	0.47	ug/L	0.47	1.0	1.0
Trichloroethene	0.50	ug/L	0.50	1.0	1.0

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Job Number: 660-10669-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-10669-4

Date Sampled: 08/14/2006 1020  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	08/23/2006 2216			
<b>Prep Method: 5030B</b>	Date Prepared:	08/23/2006 2216			
Trichlorofluoromethane	2.5	ug/L	2.5	5.0	1.0
1,2,3-Trichloropropane	0.15	ug/L	0.15	1.0	1.0
Vinyl acetate	1.5	ug/L	1.5	10	1.0
Vinyl chloride	0.50	ug/L	0.50	1.0	1.0
Xylenes, Total	0.50	ug/L	0.50	3.0	1.0
<hr/>					
Surrogate				Acceptance Limits	
4-Bromofluorobenzene	88	%		74 - 126	
Dibromofluoromethane	108	%		70 - 130	
Toluene-d8 (Surr)	104	%		77 - 122	
<hr/>					
<b>Method: 504.1</b>	Date Analyzed:	08/21/2006 2255			
<b>Prep Method: 504.1</b>	Date Prepared:	08/21/2006 1500			
Ethylene Dibromide	0.0042	ug/L	0.0042	0.019	1.0
1,2-Dibromo-3-Chloropropane	0.0026	ug/L	0.0026	0.019	1.0
<hr/>					
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/16/2006 2042			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Silver	1.9	ug/L	1.9	10	1.0
Arsenic	4.8	ug/L	4.8	10	1.0
Barium	6.0	ug/L	1.2	10	1.0
Beryllium	0.74	ug/L	0.74	4.0	1.0
Cadmium	0.71	ug/L	0.71	5.0	1.0
Cobalt	1.4	ug/L	1.4	10	1.0
Chromium	1.7	ug/L	1.7	10	1.0
Copper	2.9	ug/L	2.9	20	1.0
Sodium	8.9	mg/L	0.15	0.50	1.0
Nickel	4.7	ug/L	4.7	40	1.0
Lead	2.3	ug/L	1.6	5.0	1.0
Antimony	2.9	ug/L	2.9	6.0	1.0
Selenium	5.9	ug/L	5.9	10	1.0
Thallium	0.50	ug/L	0.50	1.0	1.0
Vanadium	2.5	ug/L	2.5	5.0	1.0
Zinc	180	ug/L	5.9	20	1.0
<hr/>					
<b>Method: TOT-REC-6020</b>	Date Analyzed:	08/17/2006 1731			
<b>Prep Method: 3005A</b>	Date Prepared:	08/16/2006 1106			
Iron	590	ug/L	39	100	1.0

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Job Number: 660-10669-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-10669-4

Date Sampled: 08/14/2006 1020  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	08/17/2006 1458			
<b>Prep Method: 7470A</b>	Date Prepared:	08/17/2006 0923			
Mercury	0.080 U	ug/L	0.080	0.20	1.0
<b>Method: 325.2</b>	Date Analyzed:	08/18/2006 1028			
Chloride	35	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	08/27/2006 1200			
Ammonia (as N)	0.36	mg/L	0.025	0.10	1.0
<b>Method: 353.2</b>	Date Analyzed:	08/16/2006 0811			
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	08/16/2006 1752			
Total Organic Carbon	5.3 U	mg/L	5.3	20	10

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Job Number: 660-10669-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-10669-4

Date Sampled: 08/14/2006 1020  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
Method: 160.1	Date Analyzed:	08/16/2006 1600			
Total Dissolved Solids	300	mg/L	5.0	5.0	1.0
Method: 160.2	Date Analyzed:	08/16/2006 1706			
Total Suspended Solids	1.0	U	mg/L	1.0	1.0



LABORATORY SERVICES

2742 N. Florida Ave.  
P.O. Box 1833  
Tampa, Florida 33601  
(813) 229-2879  
Fax (813) 229-0002

Report Date: August 31, 2006

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Attn: Dr. Shibu Paul

Field Custody: Client  
Client/Field ID: 660-10669-4  
Weeks  
Sample Collection: 8-14-06  
Lab ID No: 7618  
Lab Custody Date: 8-16-06  
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results		Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	12.5	± 2.1	08-29-06/0900	EPA 900.0	1.3
Radium-226	pCi/l	11.3	± 1.8	08-31-06/0800	EPA 903.0	0.9
Radium-228	pCi/l	0.0	± 0.7	08-29-06/1300	EPA Ra-05	1.0
Alpha Standard: Th-230						

*James W. Hayes*

James W. Hayes  
Laboratory Manager

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
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Tampa, FL 33601

Job Number: 660-10669-1

Client Sample ID: Travel Blank  
Lab Sample ID: 660-10669-5

Date Sampled: 08/14/2006 0910  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Analyzed:	08/23/2006 2056			
Prep Method: 5030B	Date Prepared:	08/23/2006 2056			
Acetone	9.9	U	ug/L	9.9	20
Acrylonitrile	1.2	U	ug/L	1.2	100
Benzene	0.50	U	ug/L	0.50	1.0
Bromodichloromethane	0.35	U	ug/L	0.35	1.0
Bromoform	0.58	U	ug/L	0.58	1.0
Bromomethane	2.5	U	ug/L	2.5	5.0
Methyl Ethyl Ketone	8.4	U	ug/L	8.4	10
Carbon disulfide	0.85	U	ug/L	0.85	1.0
Carbon tetrachloride	0.42	U	ug/L	0.42	1.0
Chlorobenzene	0.63	U	ug/L	0.63	1.0
Bromochloromethane	0.58	U	ug/L	0.58	1.0
Chloroethane	2.5	U	ug/L	2.5	5.0
Chloroform	0.90	U	ug/L	0.90	1.0
1,2-Dichlorobenzene	0.44	U	ug/L	0.44	1.0
Chloromethane	1.0	U	ug/L	1.0	4.0
Dibromochloromethane	0.34	U	ug/L	0.34	1.0
Dibromomethane	0.41	U	ug/L	0.41	1.0
trans-1,4-Dichloro-2-butene	2.5	U	ug/L	2.5	10
1,4-Dichlorobenzene	0.52	U	ug/L	0.52	1.0
1,1-Dichloroethane	0.52	U	ug/L	0.52	1.0
1,2-Dichloroethane	0.57	U	ug/L	0.57	1.0
1,1-Dichloroethene	0.45	U	ug/L	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	ug/L	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	ug/L	0.44	1.0
1,2-Dichloropropane	0.52	U	ug/L	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	ug/L	0.14	1.0
Ethylbenzene	0.44	U	ug/L	0.44	1.0
2-Hexanone	4.4	U	ug/L	4.4	10
Iodomethane	2.5	U	ug/L	2.5	5.0
4-Methyl-2-pentanone	3.8	U	ug/L	3.8	10
Methylene Chloride	4.0	U	ug/L	4.0	5.0
Styrene	0.98	U	ug/L	0.98	2.0
1,1,2,2-Tetrachloroethane	0.14	U	ug/L	0.14	1.0
1,1,1,2-Tetrachloroethane	0.63	U	ug/L	0.63	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	1.0
Toluene	0.51	U	ug/L	0.51	1.0
1,1,1-Trichloroethane	0.46	U	ug/L	0.46	1.0
1,1,2-Trichloroethane	0.47	U	ug/L	0.47	1.0
Trichloroethene	0.50	U	ug/L	0.50	1.0

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Job Number: 660-10669-1

Client Sample ID: Travel Blank  
Lab Sample ID: 660-10669-5

Date Sampled: 08/14/2006 0910  
Date Received: 08/14/2006 1415  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Analyzed:	08/23/2006 2056			
Prep Method: 5030B	Date Prepared:	08/23/2006 2056			
Trichlorofluoromethane	2.5	U	ug/L	2.5	5.0
1,2,3-Trichloropropane	0.15	U	ug/L	0.15	1.0
Vinyl acetate	1.5	U	ug/L	1.5	10
Vinyl chloride	0.50	U	ug/L	0.50	1.0
Xylenes, Total	0.50	U	ug/L	0.50	3.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene	92	%		74 - 126	
Dibromofluoromethane	111	%		70 - 130	
Toluene-d8 (Surr)	108	%		77 - 122	

**DATA REPORTING QUALIFIERS**

Client: Hillsborough County

Job Number: 660-10669-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA	U	Indicates that the compound was analyzed for but not detected.
GC Semi VOA	U	Indicates that the compound was analyzed for but not detected.
Metals	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.