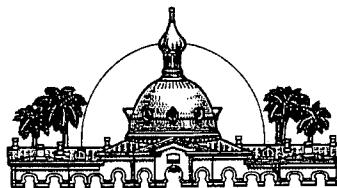


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January 17, 2007

Dept. of Environmental  
Protection

JAN 19 2007

Southwest District

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 No. 35435-006-SO and Modification #35435-012-SO/MM  
Analytical Data Report – November 2006**

Dear Mr. Morris:

In accordance with Specific Condition #36 b. of the referenced permit modification, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the November 2006 analytical data report (ADR) for the water quality monitoring at the Southeast County Landfill (SCLF). Samples were collected from seven the surficial aquifer groundwater monitoring wells and three private supply wells from November 7 through November 9, 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 4.26 to 6.42 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.

Mr. John Morris, P.G.  
January 17, 2007  
Page 2

## ***GENERAL PARAMETERS***

### **Total Alpha**

The Weeks' private supply well exhibited concentrations of total alpha at 23 picocuries per liter (pCi/l) and the Barnes private supply well indicated concentrations at 28 pCi/l, which is above the Primary Drinking Water Standard (PDWS) of 15 pCi/l. These supply wells have periodically been observed to exhibit total alpha above the PDWS. No unusual conditions or changes in constituent values were observed during this sampling event, and the home owners have been appropriately notified of this condition. The detection of this radiological parameter in the private supply wells is not readily attributable to the landfill operations, and is likely attributable to the past strip mining activities in the area.

### **Radium 226**

The Weeks' private supply well exhibited concentrations of radium 226 at 13.9 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 has been 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.

## ***METALS***

### **Iron**

Iron concentrations in all seven surficial aquifer detection and background wells were observed above the SDWS of 0.3 mg/l. Concentrations for iron ranged from 4.26 mg/l to 6.42 mg/l. 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.

Mr. John Morris, P.G.  
January 17, 2007  
Page 3

The private supply wells owned by Weeks and Holland exhibited levels of iron above the SDWS with concentrations of 0.52 mg/l and 1.7 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. Based on the identified 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.

### **Arsenic**

Arsenic concentrations in two of the seven surficial aquifer detection wells sampled were observed above the PDWS of 0.01 mg/l. Concentrations were observed in detection wells TH-58 and TH-65 at levels of 0.036 mg/l and 0.028 mg/l. The arsenic concentrations observed in these two surficial aquifer wells do not appear to be attributable to the buried wastes within the landfill, and may be the result of a similar microbe release scenario as iron. The anaerobic environment below the landfill liner materials can favor bacteria that promote the reduction of certain metals and this process could introduce dissolved arsenic to the surficial aquifer groundwater in the vicinity of these wells. The SWMD will continue to evaluate the concentrations of arsenic at the site.

### ***ORGANIC PARAMETERS***

The organic parameters were analyzed by EPA Method 8260. The results of analyses are discussed in detail in the following paragraphs. Carbon disulfide was detected in detection well, TH-28A at a concentration of 2.4 micrograms per liter (ug/l). This concentration is well below the SDWS of 700 ug/l. Remaining organic parameters for the background/detection and private supply wells were all below detection limits (BDL).

### ***GROUNDWATER ELEVATIONS AND CONTOUR MAP***

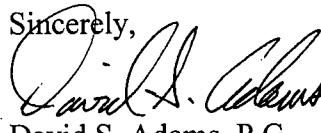
The SWMD Field Sampling Team did not record the groundwater elevation data properly during this first quarterly sampling of the Phases 1-6 monitoring wells. Only five of the seven wells, TH-22A, TH-28A, TH-57, TH-58, and TH-65, were recorded on November 8, 2006. The other two wells, TH-66 and TH-67, were recorded on November 9, 2006. The SWMD has prepared a surficial aquifer groundwater contour diagram utilizing the elevation data from only the five wells. In the future, all data points normally recorded during the February and August sampling events shall be recorded during the November and May sampling events.

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 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 February 2007.

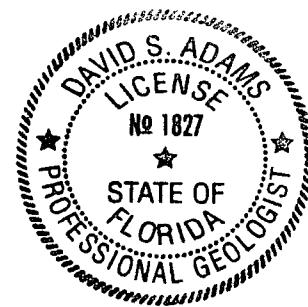
Mr. John Morris, P.G.  
January 17, 2007  
Page 4

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,

 / 1/17/2007

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



DSA/mdt

Enclosures

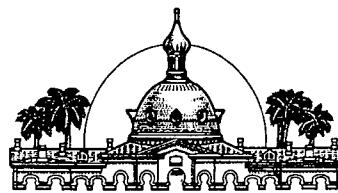
xc: Barry M. Boldissar, Director, SWMD  
Patricia Berry, Section Manager, SWMD  
Ernest Ely, Landfill Manager, WM, Southeast Landfill  
Larry Ruiz, Project Manager, SWMD  
Joe O'Neil, Jones Edmunds  
Chongman Lee, Department of Environmental Protection  
Andy Schipfer, Environmental Protection Commission  
Irene Barnes, Southeast Hillsborough Civic Association

[enviro/projects/self/ADRs/2006/self adr 11-06.doc](file:///C:/enviro/projects/self/ADRs/2006/self%20adr%2011-06.doc)

# Analytical Results from Private Well Samples at the Southeast Landfill

November 7, 2006

GENERAL (mg/l) PARAMETERS	Private Wells			(MCL) STANDARD	
	Weeks	Holland	Barnes	F.A.C. 62-550	
conductivity (umhos/cm) (field)	485	339	307	NS	
pH (field)	7.08	7.2	7.48	(6.5 - 8.5)**	
total dissolved solids (mg/l)	280	220	200	500**	
temperature (°C) (field)	23.69	24.07	22.9	NS	
turbidity (NTU) (field)	1.5	1.4	0.6	NS	
chloride (mg/l)	31	21	11	250**	
ammonia nitrogen (mg/l as N)	0.17	0.12	0.13	NS	
nitrate (mg/l as N)	BDL	BDL	BDL	10*	
dissolved oxygen (mg/l) (field)	1.3	0.17	3.06	NS	
total alpha (pCi/l)	23	3.8	28	15*	
radium 226 (pCi/l)	13.9	3	2.7	5*	
radium 228 (pCi/l)	BDL	5	0.2	5*	
<hr/>					
Metals: (mg/l)	Private Wells			(MCL) STANDARD	
	Weeks	Holland	Barnes	F.A.C. 62-550	
iron	0.520	1.7	BDL	0.3**	
chromium	BDL	BDL	BDL	0.2	
cobalt	BDL	BDL	BDL	140***	
copper	BDL	BDL	BDL	1**	
barium	0.0058	0.0059	0.014	2*	
arsenic	BDL	BDL	BDL	0.01*	
lead	BDL	BDL	BDL	0.015*	
sodium	9.2	6.1	9.1	160*	
mercury	BDL	BDL	BDL	0.002	
zinc	0.082	0.040	0.080	5**	
antimony	BDL	BDL	BDL	.006*	
nickel	BDL	0.0051	BDL	0.1*	
<hr/>					
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*	
<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					
23 : 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					



Hillsborough County  
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January 17, 2007

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 November 7, 2006. Iron was observed at a concentration of 0.52 mg/l. This value exceeds the Florida Secondary Drinking Water Standard (FAC Ch 62-550.320) of 0.30 mg/l. Total alpha and Radium 226 was also observed at concentrations of 23 pCi/l and 13.9 pCi/l, respectfully. These values exceed the Florida Primary Drinking Water Standards (FAC Ch 62-550.310) of 15 pCi/l and 5 pCi/l. All other parameters tested are within Florida Primary and Secondary Drinking Water Standards (FAC Ch 62-550.310-.320).

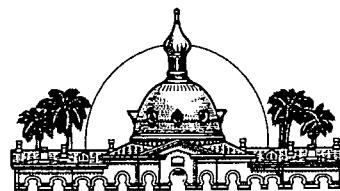
For health effects information you may call the Hillsborough Health Department at (813) 307-8001. If you have any questions on the analysis, you may call me at 276-2955. Thank you for your permission to test this well.

Sincerely,

A handwritten signature of Michael D. Townsel.

1/17/07

Michael D. Townsel  
Hydrologist  
Solid Waste Management Department



Hillsborough County  
Florida

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Office of the County Administrator  
Patricia G. Bean

January 17, 2007

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 November 7, 2006. Iron was observed at a concentration of 1.7 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,

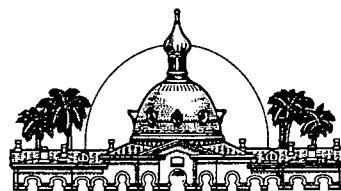
A handwritten signature of Michael D. Townsel.

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

January 17, 2007

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 November 7, 2006. Total alpha was observed at a concentration of 28 pCi/l, respectfully. This value exceeds the Florida Primary Drinking Water Standard (FAC Ch 62-550.310) of 15 pCi/l. The remaining 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".

1/17/07

Michael D. Townsel  
Hydrologist  
Solid Waste Management Department

mdt

Enclosures

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

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

Job Number: 660-12226-1

**Client Sample ID:** Barnes  
**Lab Sample ID:** 660-12226-2

Date Sampled: 11/07/2006 1205  
Date Received: 11/07/2006 1310  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
<b>Method:</b> Field Sampling	Date Analyzed:	11/07/2006 1205		
Field pH	7.48	SU	1.0	
Field Temperature	22.90	Degrees C	1.0	
Oxygen, Dissolved	3.06	mg/L	1.0	
Specific Conductance	307	umhos/cm	1.0	
Turbidity	0.6	NTU	1.0	

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

Job Number: 660-12226-1

Client Sample ID: Barnes  
Lab Sample ID: 660-12226-2

Date Sampled: 11/07/2006 1205  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1741			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1741			
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: 660-12226-1

Client Sample ID: Barnes  
Lab Sample ID: 660-12226-2

Date Sampled: 11/07/2006 1205  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1741			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1741			
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
Surrogate				Acceptance Limits	
4-Bromofluorobenzene	100	%		74 - 126	
Dibromofluoromethane	93	%		70 - 130	
Toluene-d8 (Surr)	105	%		77 - 122	
<b>Method: 504.1</b>	Date Analyzed:	11/16/2006 0435			
<b>Prep Method: 504.1</b>	Date Prepared:	11/15/2006 1000			
1,2-Dibromo-3-Chloropropane	0.0097	ug/L	0.0097	0.019	1.0
Ethylene Dibromide	0.0084	ug/L	0.0084	0.019	1.0
<b>Method: TOT-REC-6020</b>	Date Analyzed:	11/13/2006 1426			
<b>Prep Method: 3005A</b>	Date Prepared:	11/09/2006 0836			
Silver	1.9	ug/L	1.9	10	1.0
Arsenic	4.8	ug/L	4.8	10	1.0
Barium	14	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
Iron	39	ug/L	39	100	1.0
Sodium	9.1	mg/L	0.15	0.50	1.0
Nickel	4.7	ug/L	4.7	40	1.0
Lead	1.6	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	80	ug/L	5.9	20	1.0
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1011			
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312			
Mercury	0.080	ug/L	0.080	0.20	1.0

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

Job Number: 660-12226-1

**Client Sample ID:** Barnes  
**Lab Sample ID:** 660-12226-2

Date Sampled: 11/07/2006 1205  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1011			
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312			
<b>Method: 325.2</b>	Date Analyzed:	11/09/2006 1540			
Chloride	11	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	11/14/2006 1351			
Ammonia (as N)	0.13 I	mg/L	0.10	0.40	4.0
<b>Method: 353.2</b>	Date Analyzed:	11/08/2006 0802			
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	11/15/2006 0402			
Total Organic Carbon	1.3 I	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: 660-12226-1

**Client Sample ID:** Barnes  
**Lab Sample ID:** 660-12226-2

Date Sampled: 11/07/2006 1205  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	11/12/2006 1718			
Total Dissolved Solids	200	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	11/12/2006 1630			
Total Suspended Solids	1.0	U	mg/L	1.0	1.0



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

Report Date: November 21, 2006

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Field Custody: Client  
Client/Field ID: 660-12226-2  
Barnes

Attn: Dr. Shibu Paul

Sample Collection: 11-07-06  
  
Lab ID No: 11252  
Lab Custody Date: 11-08-06  
Sample description: Water

**CERTIFICATE OF ANALYSIS**

Parameter	Units	Results		Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	28	± 1	11-21-06/1100	EPA 900.0	0.3
Radium-226	pCi/l	2.7	± 1.0	11-16-06/1300	EPA 903.0	0.9
Radium-228	pCi/l	0.2	± 0.8	11-17-06/1200	EPA Ra-05	1.0

Alpha Standard: Th-230

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

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  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-12226-1

**Client Sample ID:** Holland  
**Lab Sample ID:** 660-12226-1

Date Sampled: 11/07/2006 1125  
Date Received: 11/07/2006 1310  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Analyzed:	11/07/2006 1125		
Field pH	7.20	SU		1.0
Field Temperature	24.07	Degrees C		1.0
Oxygen, Dissolved	0.17	mg/L		1.0
Specific Conductance	339	umhos/cm		1.0
Turbidity	1.4	NTU		1.0

Mr. Jim Clayton  
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Job Number: 660-12226-1

Client Sample ID: Holland  
Lab Sample ID: 660-12226-1

Date Sampled: 11/07/2006 1125  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Analyzed:	11/17/2006 1801			
Prep Method: 5030B	Date Prepared:	11/17/2006 1801			
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: 660-12226-1

Client Sample ID: Holland  
Lab Sample ID: 660-12226-1

Date Sampled: 11/07/2006 1125  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1801			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1801			
Trichlorofluoromethane	2.5	U ug/L	2.5	5.0	1.0
1,2,3-Trichloropropane	0.15	U ug/L	0.15	1.0	1.0
Vinyl acetate	1.5	U ug/L	1.5	10	1.0
Vinyl chloride	0.50	U ug/L	0.50	1.0	1.0
Xylenes, Total	0.50	U ug/L	0.50	3.0	1.0
<b>Surrogate</b>			<b>Acceptance Limits</b>		
4-Bromofluorobenzene	95	%	74 - 126		
Dibromofluoromethane	90	%	70 - 130		
Toluene-d8 (Surr)	102	%	77 - 122		
<b>Method: 504.1</b>	Date Analyzed:	11/16/2006 0411			
<b>Prep Method: 504.1</b>	Date Prepared:	11/15/2006 1000			
1,2-Dibromo-3-Chloropropane	0.0096	U ug/L	0.0096	0.019	1.0
Ethylene Dibromide	0.0084	U ug/L	0.0084	0.019	1.0
<b>Method: TOT-REC-6020</b>	Date Analyzed:	11/13/2006 1351			
<b>Prep Method: 3005A</b>	Date Prepared:	11/09/2006 0836			
Silver	1.9	U ug/L	1.9	10	1.0
Arsenic	4.8	U ug/L	4.8	10	1.0
Barium	5.9	I ug/L	1.2	10	1.0
Beryllium	0.74	U ug/L	0.74	4.0	1.0
Cadmium	0.71	U ug/L	0.71	5.0	1.0
Cobalt	1.4	U ug/L	1.4	10	1.0
Chromium	1.7	U ug/L	1.7	10	1.0
Copper	2.9	U ug/L	2.9	20	1.0
Iron	1700	ug/L	39	100	1.0
Sodium	6.1	mg/L	0.15	0.50	1.0
Nickel	5.1	I ug/L	4.7	40	1.0
Lead	1.6	U ug/L	1.6	5.0	1.0
Antimony	2.9	U ug/L	2.9	6.0	1.0
Selenium	5.9	U ug/L	5.9	10	1.0
Thallium	0.50	U ug/L	0.50	1.0	1.0
Vanadium	2.5	U ug/L	2.5	5.0	1.0
Zinc	40	ug/L	5.9	20	1.0
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1008			
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312			
Mercury	0.080	U ug/L	0.080	0.20	1.0

Mr. Jim Clayton  
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Job Number: 660-12226-1

**Client Sample ID:** Holland  
**Lab Sample ID:** 660-12226-1

Date Sampled: 11/07/2006 1125  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1008			
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312			
<b>Method: 325.2</b>	Date Analyzed:	11/09/2006 1538			
Chloride	21	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	11/14/2006 1349			
Ammonia (as N)	0.12	I	0.10	0.40	4.0
<b>Method: 353.2</b>	Date Analyzed:	11/08/2006 0802			
Nitrate Nitrogen	0.10	U	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	11/15/2006 0342			
Total Organic Carbon	1.8	I	0.53	2.0	1.0

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Job Number: 660-12226-1

**Client Sample ID:** Holland  
**Lab Sample ID:** 660-12226-1

Date Sampled: 11/07/2006 1125  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	11/12/2006 1718			
Total Dissolved Solids	220	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	11/12/2006 1630			
Total Suspended Solids	2.4	mg/L	1.0	1.0	1.0



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STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Attn: Dr. Shibu Paul

Report Date: November 21, 2006

Field Custody: Client  
Client/Field ID: 660-12226-1  
Holland

Sample Collection: 11-07-06

Lab ID No: 11251  
Lab Custody Date: 11-08-06  
Sample description: Water

**CERTIFICATE OF ANALYSIS**

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.8 ± 2.2	11-17-06/1600	EPA 900.0	2.2
Radium-226	pCi/l	3.0 ± 1.0	11-16-06/1300	EPA 903.0	0.9
Radium-228	pCi/l	5.0 ± 1.2	11-17-06/1200	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in black 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: 660-12226-1

Client Sample ID: Weeks  
Lab Sample ID: 660-12226-3

Date Sampled: 11/07/2006 1045  
Date Received: 11/07/2006 1310  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Analyzed:	11/07/2006 1045		
Field pH	7.08	SU		1.0
Field Temperature	23.69	Degrees C		1.0
Oxygen, Dissolved	1.30	mg/L		1.0
Specific Conductance	485	umhos/cm		1.0
Turbidity	1.5	NTU		1.0

Mr. Jim Clayton  
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Job Number: 660-12226-1

Client Sample ID: Weeks  
Lab Sample ID: 660-12226-3

Date Sampled: 11/07/2006 1045  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1721			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1721			
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  
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 Solid Waste Management Department  
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 24th Floor  
 Tampa, FL 33601

Job Number: 660-12226-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-12226-3

Date Sampled: 11/07/2006 1045  
 Date Received: 11/07/2006 1310  
 Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1721				
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1721				
Trichlorofluoromethane	2.5	U	ug/L	2.5	5.0	1.0
1,2,3-Trichloropropane	0.15	U	ug/L	0.15	1.0	1.0
Vinyl acetate	1.5	U	ug/L	1.5	10	1.0
Vinyl chloride	0.50	U	ug/L	0.50	1.0	1.0
Xylenes, Total	0.50	U	ug/L	0.50	3.0	1.0
<b>Surrogate</b>					Acceptance Limits	
4-Bromofluorobenzene	97		%		74 - 126	
Dibromofluoromethane	92		%		70 - 130	
Toluene-d8 (Surr)	106		%		77 - 122	
<b>Method: 504.1</b>	Date Analyzed:	11/16/2006 0459				
<b>Prep Method: 504.1</b>	Date Prepared:	11/15/2006 1000				
1,2-Dibromo-3-Chloropropane	0.0099	U	ug/L	0.0099	0.020	1.0
Ethylene Dibromide	0.0087	U	ug/L	0.0087	0.020	1.0
<b>Method: TOT-REC-6020</b>	Date Analyzed:	11/13/2006 1432				
<b>Prep Method: 3005A</b>	Date Prepared:	11/09/2006 0836				
Silver	1.9	U	ug/L	1.9	10	1.0
Arsenic	4.8	U	ug/L	4.8	10	1.0
Barium	5.8	I	ug/L	1.2	10	1.0
Beryllium	0.74	U	ug/L	0.74	4.0	1.0
Cadmium	0.71	U	ug/L	0.71	5.0	1.0
Cobalt	1.4	U	ug/L	1.4	10	1.0
Chromium	1.7	U	ug/L	1.7	10	1.0
Copper	2.9	U	ug/L	2.9	20	1.0
Iron	520		ug/L	39	100	1.0
Sodium	9.2		mg/L	0.15	0.50	1.0
Nickel	4.7	U	ug/L	4.7	40	1.0
Lead	1.6	U	ug/L	1.6	5.0	1.0
Antimony	2.9	U	ug/L	2.9	6.0	1.0
Selenium	5.9	U	ug/L	5.9	10	1.0
Thallium	0.50	U	ug/L	0.50	1.0	1.0
Vanadium	2.5	U	ug/L	2.5	5.0	1.0
Zinc	82		ug/L	5.9	20	1.0
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1030				
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312				
Mercury	0.080	U	ug/L	0.080	0.20	1.0

Mr. Jim Clayton  
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Tampa, FL 33601

Job Number: 660-12226-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-12226-3

Date Sampled: 11/07/2006 1045  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1030			
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312			
<b>Method: 325.2</b>	Date Analyzed:	11/09/2006 1541			
Chloride	31	mg/L	3.0	10	1.0
<b>Method: 350.1</b>	Date Analyzed:	11/14/2006 1353			
Ammonia (as N)	0.17 I	mg/L	0.10	0.40	4.0
<b>Method: 353.2</b>	Date Analyzed:	11/08/2006 0802			
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0
<b>Method: 415.1</b>	Date Analyzed:	11/15/2006 0422			
Total Organic Carbon	3.3	mg/L	0.53	2.0	1.0

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Job Number: 660-12226-1

**Client Sample ID:** Weeks  
**Lab Sample ID:** 660-12226-3

Date Sampled: 11/07/2006 1045  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	11/12/2006 1718			
Total Dissolved Solids	280	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	11/12/2006 1630			
Total Suspended Solids	1.0	U	mg/L	1.0	1.0



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Report Date: November 21, 2006

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Field Custody: Client  
Client/Field ID: 660-12226-3  
Weeks

Attn: Dr. Shibu Paul

Sample Collection: 11-07-06

Lab ID No: 11253  
Lab Custody Date: 11-08-06  
Sample description: Water

**CERTIFICATE OF ANALYSIS**

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	23 ± 2	11-21-06/1100	EPA 900.0	1.1
Radium-226	pCi/l	13.9 ± 1.8	11-16-06/1300	EPA 903.0	0.7
Radium-228	pCi/l	0.0 ± 0.7	11-17-06/1200	EPA Ra-05	1.0

Alpha Standard: Th-230

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

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  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-12226-1

Client Sample ID: Equipment Blank  
Lab Sample ID: 660-12226-4

Date Sampled: 11/07/2006 1035  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1702			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1702			
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  
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Job Number: 660-12226-1

Client Sample ID: Equipment Blank  
Lab Sample ID: 660-12226-4

Date Sampled: 11/07/2006 1035  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1702			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1702			
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>		Acceptance Limits			
4-Bromofluorobenzene	95	%		74 - 126	
Dibromofluoromethane	91	%		70 - 130	
Toluene-d8 (Surr)	103	%		77 - 122	
<b>Method: 504.1</b>	Date Analyzed:	11/16/2006 0524			
<b>Prep Method: 504.1</b>	Date Prepared:	11/15/2006 1000			
1,2-Dibromo-3-Chloropropane	0.0096	U	ug/L	0.0096	0.019
Ethylene Dibromide	0.0083	U	ug/L	0.0083	0.019
<b>Method: TOT-REC-6020</b>	Date Analyzed:	11/13/2006 1453			
<b>Prep Method: 3005A</b>	Date Prepared:	11/09/2006 0836			
Silver	1.9	U	ug/L	1.9	10
Arsenic	4.8	U	ug/L	4.8	10
Barium	1.8	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
Iron	39	U	ug/L	39	100
Sodium	0.35	I	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	5.9	U	ug/L	5.9	20
<b>Method: 7470A</b>	Date Analyzed:	11/13/2006 1033			
<b>Prep Method: 7470A</b>	Date Prepared:	11/10/2006 1312			
Mercury	0.080	U	ug/L	0.080	0.20

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Job Number: 660-12226-1

**Client Sample ID:** Equipment Blank  
**Lab Sample ID:** 660-12226-4

Date Sampled: 11/07/2006 1035  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 7470A	Date Analyzed:	11/13/2006 1033			
Prep Method: 7470A	Date Prepared:	11/10/2006 1312			
Method: 325.2	Date Analyzed:	11/09/2006 1541			
Chloride	3.0	U	mg/L	3.0	10
Method: 350.1	Date Analyzed:	11/14/2006 1355			
Ammonia (as N)	0.12	I	mg/L	0.10	0.40
Method: 353.2	Date Analyzed:	11/08/2006 0802			
Nitrate Nitrogen	0.10	U	mg/L	0.10	0.50
Method: 415.1	Date Analyzed:	11/15/2006 0442			
Total Organic Carbon	0.53	U	mg/L	0.53	2.0

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Job Number: 660-12226-1

**Client Sample ID:** Equipment Blank  
**Lab Sample ID:** 660-12226-4

Date Sampled: 11/07/2006 1035  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	11/12/2006 1718			
Total Dissolved Solids	5.0	U	mg/L	5.0	5.0
<b>Method: 160.2</b>	Date Analyzed:	11/12/2006 1630			
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

STL-Tampa  
6712 Benjamin Road  
Tampa, FL 33634

Attn: Dr. Shibu Paul

Report Date: November 21, 2006

Field Custody: Client  
Client/Field ID: 660-12226-4  
Equipment blank  
  
Sample Collection: 11-07-06  
  
Lab ID No: 11254  
Lab Custody Date: 11-08-06  
Sample description: Water

**CERTIFICATE OF ANALYSIS**

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.2 ± 0.4	11-21-06/1100	EPA 900.0	0.8
Radium-226	pCi/l	0.4 ± 0.4	11-16-06/1300	EPA 903.0	0.6
Radium-228	pCi/l	0.0 ± 0.9	11-17-06/1500	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.

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Job Number: 660-12226-1

Client Sample ID: Travel Blank  
Lab Sample ID: 660-12226-5

Date Sampled: 11/07/2006 1030  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
<b>Method: 8260B</b>	Date Analyzed:	11/17/2006 1642			
<b>Prep Method: 5030B</b>	Date Prepared:	11/17/2006 1642			
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
Chloromethane	1.0	U	ug/L	1.0	4.0
1,2-Dichlorobenzene	0.44	U	ug/L	0.44	1.0
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: 660-12226-1

Client Sample ID: Travel Blank  
Lab Sample ID: 660-12226-5

Date Sampled: 11/07/2006 1030  
Date Received: 11/07/2006 1310  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 8260B	Date Analyzed:	11/17/2006 1642			
Prep Method: 5030B	Date Prepared:	11/17/2006 1642			
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	101	%		74 - 126	
Dibromofluoromethane	92	%		70 - 130	
Toluene-d8 (Surr)	104	%		77 - 122	

## DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-12226-1

Lab Section	Qualifier	Description
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.