Hillsborough County
Florida

Office of the County Administrator
Michael S. Merrill

August 10, 2011

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Waste Management Section
13051 Telecom Parkway
Temple Terrace, FL 33637

RE: **Southeast County Landfill**
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 11

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the sampling event conducted as part of the continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address any potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. This report provides the analytical results from the monthly sampling event conducted at the SCLF on July 7-8, 2011. The samples were analyzed by our contracted laboratory, Test America, Inc.

Representative samples of groundwater were collected from nine (9) on-site groundwater monitoring wells and two on-site limited use potable supply wells. Samples for the groundwater monitoring wells and the on-site supply wells were analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five field parameters.

The following paragraphs summarize the findings from this sampling event, and the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

pH

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values range in value from 4.47 to 5.70 pH units. As previously discussed, the pH values within the surficial aquifer at the site have historically been below the acceptable range, and the observed values are consistent with the historical and background water qualities at the SCLF. The pH values observed in the four (4) upper Floridan monitoring wells and the two (2) on-site supply wells were all within the SDWS acceptable range during this sampling event, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. The turbidity values in P-18S and TH-42 have been elevated since they were first sampled as part of the IAMP. However, the values have been steadily declining in these two wells over the period of record. The turbidity value in P-18S could not be reduced to below 20 NTU, so the sample was collected from TH-30. As previously discussed, the soils encountered during the installation of P-18S were primarily clays and clayey sands, which are known to create very turbid groundwater conditions. Although purging and further development of this former piezometer has significantly reduced the turbidity, it is unlikely that turbidity will be reduced to below the 20 NTU value in P-18S. The turbidity value recorded in TH-42 was 18.1 NTU, indicating that development of this previously unused monitoring well over the past 10 sampling events has been effective.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring well, TH-58, exhibited a TDS concentration of 580 mg/l, which exceeds the SDWS of 500 mg/l. However, the TDS in TH-58 has decreased significantly since the June IAMP sampling event, which indicates that the spike in TDS at this location may be attributable to the initial stabilization grouting activities. Over the period of record, the TDS values have been steady and consistently observed below the SDWS in all the other wells. The County has initiated an evaluation of the water quality in TH-58, separate from the work being conducted as part of the IAMP.

Chloride

Surficial aquifer groundwater monitoring well, TH-58, exhibited chloride at a concentration of 210 mg/l, which is below the SDWS of 250 mg/l. Over the previous two sampling events, chloride exceeded the SDWS; however, the overall period of record, the chloride values have been consistently observed below the SDWS. The impacts at TH-58 appear to be localized, and the brief spike in values may be attributable to the initial stabilization grouting and the associated liquids pumped into the subsurface at the sinkhole. The County is currently conducting an evaluation of water quality at and around TH-58. The chloride values in all the other wells are well below the SDWS.

Arsenic

The arsenic observed in TH-58 is 0.025 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present above the PDWS in TH-58 for several years. The County has maintained the position that the arsenic is naturally occurring within the soils surrounding the well and is likely being mobilized in the anaerobic environment below the lined landfill. However, in response to discussions with the FDEP and the observed changes in other parameters in this well, the County has initiated an evaluation of the water quality in TH-58.

Iron

Iron concentrations in four (4) surficial aquifer wells tested were observed above the SDWS of 0.3 mg/l. The concentrations of iron ranged from below the detection limit (BDL) to 7.9 mg/l. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are likely naturally occurring and/or the result of past strip mining activities.

Conclusions

The water quality observed in the samples collected as part of the IAMP at the Southeast County Landfill remains consistent with the historical data set for the site. To date, the water quality observations in TH-58 are not thought to be attributable to the sinkhole. However, the County is currently evaluating the historical data set and water quality trends for this well, and is working to install additional surficial aquifer monitoring wells in the down gradient direction to evaluate the lateral extent of the impacts observed in TH-58. The proposed construction details of these wells and their location shall be submitted to the FDEP for review and approval.

Recommendations

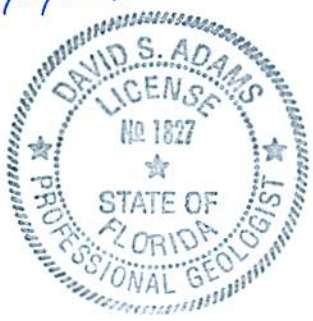
The County recommends continuation of the IAMP sampling program on the approved monthly schedule, and associated evaluation of water quality in the nine monitoring wells and two supply wells. The County will report the laboratory results from the August sampling event within seven (7) days after receiving the final data package from Test America.

Enclosed for your review please find a site location map depicting the on-site wells, the water quality data summary table, a groundwater elevation data table and associated contour flow diagram, and the complete analytical data report from our contracted laboratory, Test America, Inc. Should you have any questions or require any additional information please feel free call me at (813) 272-5977, ext. 43944.

Respectfully submitted,

David S. Adams 8/10/2011

David S. Adams, P.G
Environmental Manager
Public Utilities Department



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Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services

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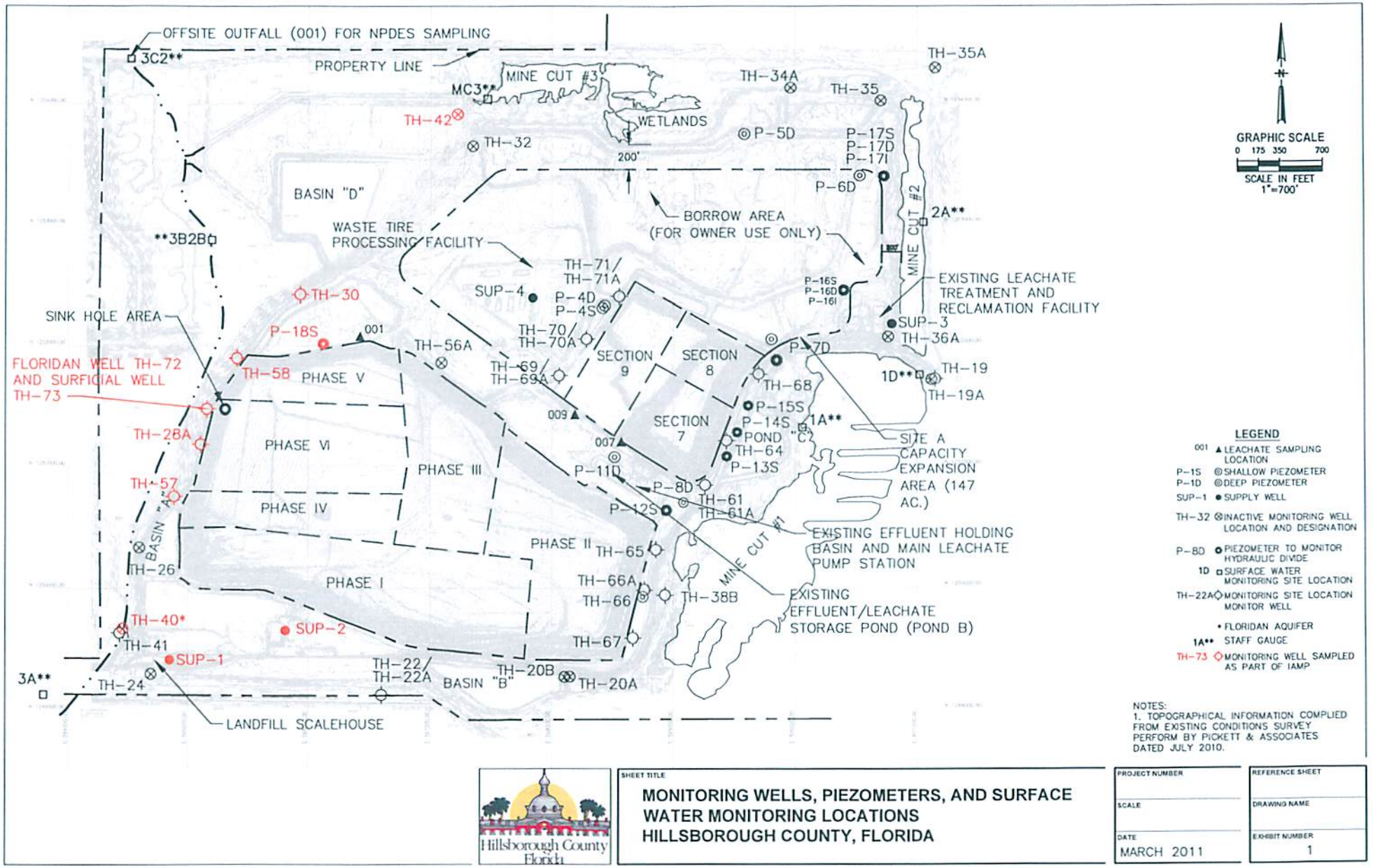
Final copy scanned to LFS/Southeast/Sinkhole/SCLF – IAMP Report No 11.



NOTES:
1. TOPOGRAPHICAL INFORMATION COMPLIED FROM EXISTING CONDITIONS SURVEY PERFORM BY PICKETT & ASSOCIATES DATED JULY 2010.

Hillsborough County Florida

SHEET TITLE

MONITORING WELLS, PIEZOMETERS, AND SURFACE WATER MONITORING LOCATIONS HILLSBOROUGH COUNTY, FLORIDA

PROJECT NUMBER	REFERENCE SHEET
SCALE	DRAWING NAME
DATE: MARCH 2011	EXHIBIT NUMBER: 1

C:\pw_work\hgtaylor\d0026713\Well Location Map - Revised 3-2-11.dwg, Plot: 3/3/2011 11:20:00 AM, Braddohn

Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
July 7-8, 2011

GENERAL (mg/l)												(MCL) STANDARD
PARAMETERS	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	F.A.C. 62-550
conductivity (umhos/cm) (field)	430	207	266	430	541	157	998	606	306	350	356	NS
dissolved oxygen (mg/l) (field)	0.37	0.58	0.3	0.51	0.27	0.22	0.75	0.72	0.35	0.07	0.07	NS
pH (field)	7.37	**5.16**	**4.47**	7.46	7.26	**5.14**	**5.70**	7.40	**5.13**	7.50	7.50	(6.5 - 8.5)**
temperature (°C) (field)	23.53	26.22	23.42	23.53	23.85	25.81	25.62	23.25	25.34	24.47	24.39	NS
turbidity (NTU) (field)	0.33	3.4	4.25	0.35	18.1	2.5	4.49	3.94	19.2	0.23	0.19	NS
total dissolved solids (mg/l)	260	110	150	230	310	200	**560**	150	350	210	82	500**
chloride (mg/l)	8.1	45	67	7.8	18	9.7	210	64	33	10	30	250**
ammonia nitrogen (mg/l as N)	0.31	1.1	1.6	0.39	0.33	0.17	0.94	2.1	0.52	0.16	0.87	2.8***
												(MCL) STANDARD
Metals: (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	F.A.C. 62-550
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	**0.025**	BDL	BDL	BDL	BDL	0.01*
iron	BDL	**3**	0.2	0.098 i	0.088 i	BDL	**5.8**	**7.9**	0.22	BDL	**0.4**	0.3**
sodium	14	16	21	16	16	8.6	47	27	31	8.8	11	160*

Note: Ref. Groundwater Guidance Concentrations, FDEP 2007
MCL=MAXIMUM CONTAMINANT LEVEL
BDL=BELOW DETECTION LIMIT
ND=NO DATA COLLECTED
NTU=NEPHELOMETRIC TURBIDITY UNITS
i = reported value between the laboratory method detection limit and the laboratory practical quantitation limit
*=DENOTES PRIMARY DRINKING WATER STANDARD
**=DENOTES SECONDARY DRINKING WATER STANDARD
***=DENOTES FLORIDA GUIDANCE CONCENTRATION
5.16 : EXCEEDS PRIMARY OR SECONDARY DRINKING WATER
ug/l=MICROGRAMS PER LITER
mg/l=MILLIGRAMS PER LITER
NS=NO STANDARD
(-) indicates that the sample was not analyzed for this parameter

Prepared by: Mike Townsel
QA/QC'D by: Cindy Pelley
Final QA/QC by: David Adams

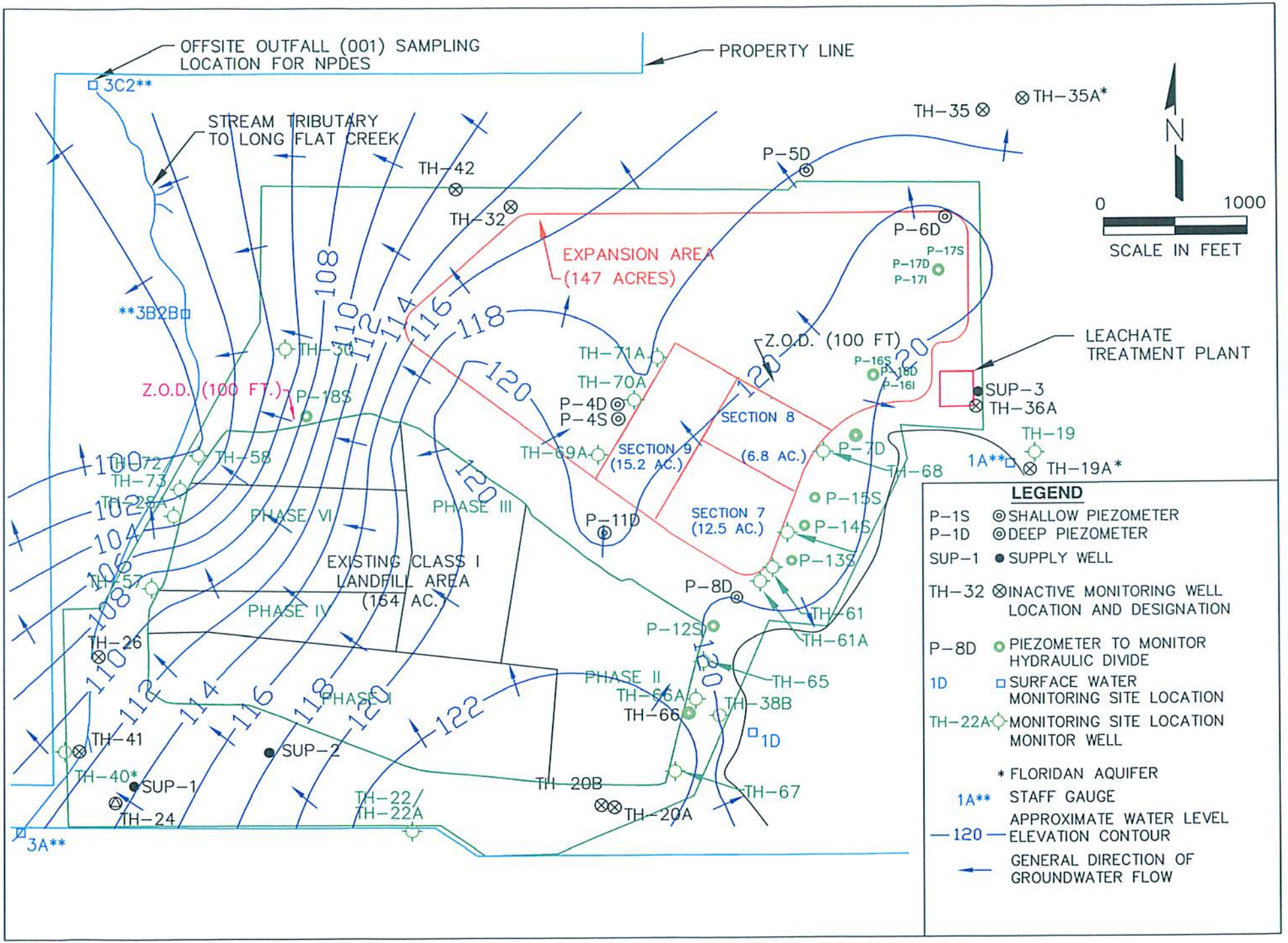
GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

July 6, 2011

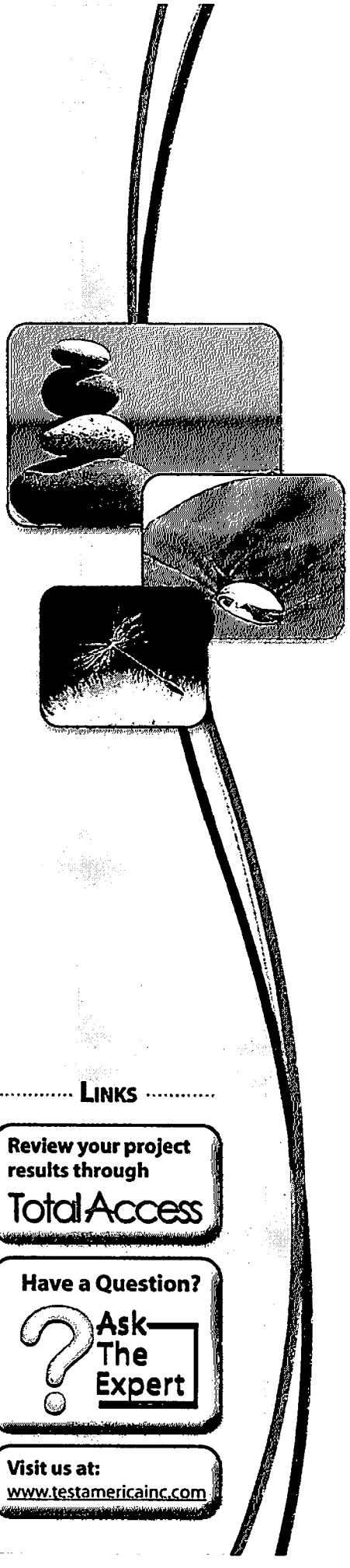
Measuring Point I.D.	T.O.C. Elevations (NGVD)	7/6/2011 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	22.92	117.86	12:49 PM
P-4S	140.95	Dry	Dry	12:50 PM
P-5D	151.94	Dry	Dry	12:18 PM
P-6D-A	148.01	26.86	121.15	12:10 PM
P-7D	138.92	18.10	120.82	11:09 AM
P-8D	138.34	18.50	119.84	10:49 AM
P-11D	138.02	18.31	119.71	10:51 AM
P-12S	134.97	14.70	120.27	10:47 AM
P-13S	140.21	17.40	122.81	10:57 AM
P-14S	138.56	15.72	122.84	11:00 AM
P-15S	139.19	17.25	121.94	11:02 AM
P-16S	143.38	16.44	126.94	11:22 AM
P-16I	144.15	24.72	119.43	11:23 AM
P-16D	143.84	24.45	119.39	11:24 AM
P-17S	137.35	14.82	122.53	12:27 PM
P-17I	137.32	16.61	120.71	12:26 PM
P-17D	137.22	16.85	120.37	12:25 PM
P-18S	129.86	18.95	110.91	12:59 PM
P-19	133.36	13.99	119.37	12:13 PM
P-20	132.38	12.26	120.12	12:06 PM
P-21	122.79	2.26	120.53	12:36 PM
P-22	128.35	8.29	120.06	12:39 PM
P-23	143.13	26.68	116.45	12:33 PM
TH-19*	130.27	108.42	21.85	11:13 AM
TH-20A	131.86	9.22	122.64	10:32 AM
TH-20B	132.57	10.02	122.55	10:31 AM
TH-22	128.82	4.74	124.08	10:22 AM
TH-22A	129.27	5.35	123.92	10:21 AM
TH-24A	128.23	4.46	123.77	10:17 AM
TH-26	125.65	Dry	Dry	1:45 PM
TH-28A	131.10	28.26	102.84	1:41 PM
TH-30	128.88	24.06	104.82	1:31 PM
TH-32	129.90	15.38	114.52	1:27 PM
TH-35	145.98	29.08	116.90	12:20 PM
TH-36A	152.70	33.94	118.76	11:19 AM
TH-38A	130.68	11.06	119.62	10:42 AM
TH-38B	131.81	11.95	119.86	10:43 AM
TH-40*	124.99	105.55	19.44	10:10 AM
TH-41*	125.00	107.37	17.63	10:09 AM
TH-42*	116.74	86.45	30.29	1:24 PM
TH-57	128.36	19.66	108.70	1:44 PM
TH-58	127.88	27.99	99.89	1:34 PM
TH-61	138.73	17.11	121.62	10:54 AM
TH-61A	139.45	17.61	121.84	10:55 AM
TH-64	139.64	16.30	123.34	10:59 AM
TH-65	135.40	15.32	120.08	10:45 AM
TH-66	130.58	9.65	120.93	10:38 AM
TH-66A	130.66	10.08	120.58	10:37 AM
TH-67	129.51	5.22	124.29	10:34 AM
TH-68	140.01	16.91	123.10	11:07 AM
TH-69A	144.97	26.51	118.46	12:56 PM
TH-70A	146.63	26.90	119.73	12:53 PM
TH-71A	146.95	26.89	120.06	12:47 PM
TH-72	130.96	113.30	17.66	1:39 PM
TH-73	131.07	31.55	99.52	1:37 PM
SW-3A	3.0'=125.53'	0.62	123.15	10:06 AM
SW-3B2B	3.0'=97.97'	1.52	96.50	1:07 PM
SW-3C2	6.0'=92.33'	1.58	87.91	1:14 PM
Mine Cut #1	4.0'=122.14'	1.20	119.34	11:04 AM
Mine Cut #2	6.0'=123.47'	1.32	118.79	11:16 AM
Mine Cut #3	4.0'=112.27'	1.78	110.05	1:18 PM
Mine Cut #4	5.0'=97.54'	2.02	94.56	1:21 PM

NGVD = National Geodetic Vertical Datum
T.O.C. = Top of Casing
B.T.O.C. = Below Top of Casing
* = Floridan Well
ND = No Data
W.L. = Water Level



Southeast County Landfill

Groundwater Elevation Contour Diagram – July 6, 2011



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-42217-1
Client Project/Site: Southeast Landfill Monitoring Wells

For:
Hillsborough County Public Utilities Dep
Solid Waste Management Group
Brandon Support Operations Complex
332 North Falkenburg Rd, 2nd Floor
Tampa, Florida 33619

Attn: David Adams

Authorized for release by:
07/29/2011 10:25:29 AM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Job ID: 660-42217-1

Laboratory: TestAmerica Tampa

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Narrative

Job Narrative
660-42217-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

General Chemistry
Method 300.0: The matrix spike (MS) recovery for batch 112716 was outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

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Client Sample ID: TH-73 WACS# 27754 — Lab Sample ID: 660-42217-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.13				SU	1		Field Sampling	Total/NA
Field Temperature	25.34				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.35				mg/L	1		Field Sampling	Total/NA
Specific Conductance	306				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.2				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	220		200	50	ug/L	1		6010B	Total Recovera
Sodium	31		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	33		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.52		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	350		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-72 WACS# 27753 — Lab Sample ID: 660-42217-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.40				SU	1		Field Sampling	Total/NA
Field Temperature	23.25				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.72				mg/L	1		Field Sampling	Total/NA
Specific Conductance	606				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.94				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7900		200	50	ug/L	1		6010B	Total Recovera
Sodium	27		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	64		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	2.1		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	150		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-58 WACS# 1571 — Lab Sample ID: 660-42217-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.70				SU	1		Field Sampling	Total/NA
Field Temperature	25.62				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.75				mg/L	1		Field Sampling	Total/NA
Specific Conductance	998				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.49				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		10	4.0	ug/L	1		6010B	Total Recovera
Iron	5800		200	50	ug/L	1		6010B	Total Recovera
Sodium	47		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	210	J3	5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	0.94		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	560		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-42 WACS# 823 — Lab Sample ID: 660-42217-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.26				SU	1		Field Sampling	Total/NA
Field Temperature	23.85				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.27				mg/L	1		Field Sampling	Total/NA

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Client Sample ID: TH-42 WACS# 823 (Continued)

Lab Sample ID: 660-42217-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	541				umhos/cm	1		Field Sampling	Total/NA
Turbidity	18.1				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	88	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	18		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.33		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	310		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-42217-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.46				SU	1		Field Sampling	Total/NA
Field Temperature	23.53				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.51				mg/L	1		Field Sampling	Total/NA
Specific Conductance	430				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.35				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	98	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.8		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.39		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-42217-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.47				SU	1		Field Sampling	Total/NA
Field Temperature	23.42				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	266				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.25				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	200		200	50	ug/L	1		6010B	Total Recovera
Sodium	21		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	67		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.6		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	150		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-42217-7

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.37				SU	1		Field Sampling	Total/NA
Field Temperature	23.53				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.37				mg/L	1		Field Sampling	Total/NA
Specific Conductance	430				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.33				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera

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Client Sample ID: TH-19 WACS# 821 (Continued)

Lab Sample ID: 660-42217-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.31		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	260		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Duplicate 42217

Lab Sample ID: 660-42217-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	190	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	22		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	71		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.7		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Blank, Equipment 42217

Lab Sample ID: 660-42217-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.30	I	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.21		0.020	0.010	mg/L	1		350.1	Total/NA

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-42246-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.16				SU	1		Field Sampling	Total/NA
Field Temperature	26.22				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.58				mg/L	1		Field Sampling	Total/NA
Specific Conductance	207				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.40				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3000		200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	45		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.1		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-42246-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.14				SU	1		Field Sampling	Total/NA
Field Temperature	25.81				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Specific Conductance	157				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.50				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.6		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	9.7		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.17		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

5

Client Sample ID: SUP 1 WACS# 27755 — Lab Sample ID: 660-42246-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.50				SU	1		Field Sampling	Total/NA
Field Temperature	24.47				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	350				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.23				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.8		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	10		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.16		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SUP 2 WACS# 27756 — Lab Sample ID: 660-42246-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.50				SU	1		Field Sampling	Total/NA
Field Temperature	24.39				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	356				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.19				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	400		200	50	ug/L	1		6010B	Total Recovera
Sodium	11		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	30		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.87		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	82		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-73 WACS# 27754
Date Collected: 07/07/11 11:48
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-1
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:27	1
Iron	220		200	50	ug/L		07/12/11 11:42	07/13/11 12:27	1
Sodium	31		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		0.50	0.20	mg/L			07/19/11 10:47	1
Ammonia as N	0.52		0.020	0.010	mg/L			07/18/11 14:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	5.0	mg/L			07/14/11 12:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.13				SU			07/07/11 11:48	1
Field Temperature	25.34				Degrees C			07/07/11 11:48	1
Oxygen, Dissolved	0.35				mg/L			07/07/11 11:48	1
Specific Conductance	306				umhos/cm			07/07/11 11:48	1
Turbidity	19.2				NTU			07/07/11 11:48	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-72 WACS# 27753
Date Collected: 07/07/11 12:08
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-2
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:30	1
Iron	7900		200	50	ug/L		07/12/11 11:42	07/13/11 12:30	1
Sodium	27		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		1.0	0.40	mg/L			07/19/11 11:03	2
Ammonia as N	2.1		0.020	0.010	mg/L			07/18/11 14:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		5.0	5.0	mg/L			07/11/11 14:47	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.40				SU			07/07/11 12:08	1
Field Temperature	23.25				Degrees C			07/07/11 12:08	1
Oxygen, Dissolved	0.72				mg/L			07/07/11 12:08	1
Specific Conductance	606				umhos/cm			07/07/11 12:08	1
Turbidity	3.94				NTU			07/07/11 12:08	1

Client Sample ID: TH-58 WACS# 1571
Date Collected: 07/07/11 11:22
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-3
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		10	4.0	ug/L		07/12/11 11:42	07/13/11 12:33	1
Iron	5800		200	50	ug/L		07/12/11 11:42	07/13/11 12:33	1
Sodium	47		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210	J3	5.0	2.0	mg/L			07/21/11 10:23	10
Ammonia as N	0.94		0.020	0.010	mg/L			07/18/11 14:48	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	560		5.0	5.0	mg/L			07/14/11 12:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.70				SU			07/07/11 11:22	1
Field Temperature	25.62				Degrees C			07/07/11 11:22	1
Oxygen, Dissolved	0.75				mg/L			07/07/11 11:22	1
Specific Conductance	998				umhos/cm			07/07/11 11:22	1
Turbidity	4.49				NTU			07/07/11 11:22	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-42 WACS# 823
Date Collected: 07/07/11 10:27
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-4
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:43	1
Iron	88	I	200	50	ug/L		07/12/11 11:42	07/13/11 12:43	1
Sodium	16		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		0.50	0.20	mg/L			07/19/11 11:36	1
Ammonia as N	0.33		0.020	0.010	mg/L			07/18/11 14:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	5.0	mg/L			07/14/11 12:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.26				SU			07/07/11 10:27	1
Field Temperature	23.85				Degrees C			07/07/11 10:27	1
Oxygen, Dissolved	0.27				mg/L			07/07/11 10:27	1
Specific Conductance	541				umhos/cm			07/07/11 10:27	1
Turbidity	18.1				NTU			07/07/11 10:27	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-40 WACS# 822
Date Collected: 07/07/11 09:10
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-5
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:46	1
Iron	98	I	200	50	ug/L		07/12/11 11:42	07/13/11 12:46	1
Sodium	16		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		0.50	0.20	mg/L			07/19/11 11:53	1
Ammonia as N	0.39		0.020	0.010	mg/L			07/18/11 14:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		5.0	5.0	mg/L			07/14/11 12:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.46				SU			07/07/11 09:10	1
Field Temperature	23.53				Degrees C			07/07/11 09:10	1
Oxygen, Dissolved	0.51				mg/L			07/07/11 09:10	1
Specific Conductance	430				umhos/cm			07/07/11 09:10	1
Turbidity	0.35				NTU			07/07/11 09:10	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-30 WACS# 1065
Date Collected: 07/07/11 11:00
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-6
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:49	1
Iron	200		200	50	ug/L		07/12/11 11:42	07/13/11 12:49	1
Sodium	21		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67		1.0	0.40	mg/L			07/19/11 12:09	2
Ammonia as N	1.6		0.020	0.010	mg/L			07/18/11 14:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	5.0	mg/L			07/14/11 12:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.47				SU			07/07/11 11:00	1
Field Temperature	23.42				Degrees C			07/07/11 11:00	1
Oxygen, Dissolved	0.30				mg/L			07/07/11 11:00	1
Specific Conductance	266				umhos/cm			07/07/11 11:00	1
Turbidity	4.25				NTU			07/07/11 11:00	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-19 WACS# 821
Date Collected: 07/07/11 09:47
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-7
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:53	1
Iron	50	U	200	50	ug/L		07/12/11 11:42	07/13/11 12:53	1
Sodium	14		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		0.50	0.20	mg/L			07/19/11 12:26	1
Ammonia as N	0.31		0.020	0.010	mg/L			07/18/11 14:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		5.0	5.0	mg/L			07/14/11 12:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.37				SU			07/07/11 09:47	1
Field Temperature	23.53				Degrees C			07/07/11 09:47	1
Oxygen, Dissolved	0.37				mg/L			07/07/11 09:47	1
Specific Conductance	430				umhos/cm			07/07/11 09:47	1
Turbidity	0.33				NTU			07/07/11 09:47	1

Client Sample ID: Duplicate 42217
Date Collected: 07/07/11 00:00
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-8
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:56	1
Iron	190	I	200	50	ug/L		07/12/11 11:42	07/13/11 12:56	1
Sodium	22		0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71		1.0	0.40	mg/L			07/21/11 10:39	2
Ammonia as N	1.7		0.020	0.010	mg/L			07/18/11 14:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	5.0	mg/L			07/14/11 12:41	1

Client Sample ID: Blank, Equipment 42217
Date Collected: 07/07/11 08:50
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-9
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 12:59	1
Iron	50	U	200	50	ug/L		07/12/11 11:42	07/13/11 12:59	1
Sodium	0.31	U	0.50	0.31	mg/L		07/12/11 11:42	07/13/11 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**0.30**	**I**	0.50	0.20	mg/L			07/21/11 10:56	1
Ammonia as N	**0.21**		0.020	0.010	mg/L			07/18/11 14:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/14/11 12:41	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-28A WACS# 19862
Date Collected: 07/08/11 09:23
Date Received: 07/08/11 13:30

Lab Sample ID: 660-42246-1
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/13/11 10:03	07/14/11 11:55	1
Iron	3000		200	50	ug/L		07/13/11 10:03	07/14/11 11:55	1
Sodium	16		0.50	0.31	mg/L		07/13/11 10:03	07/14/11 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		0.50	0.20	mg/L			07/18/11 16:53	1
Ammonia as N	1.1		0.020	0.010	mg/L			07/20/11 13:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			07/14/11 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.16				SU			07/08/11 09:23	1
Field Temperature	26.22				Degrees C			07/08/11 09:23	1
Oxygen, Dissolved	0.58				mg/L			07/08/11 09:23	1
Specific Conductance	207				umhos/cm			07/08/11 09:23	1
Turbidity	3.40				NTU			07/08/11 09:23	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: TH-57 WACS# 1570
Date Collected: 07/08/11 09:44
Date Received: 07/08/11 13:30

Lab Sample ID: 660-42246-2
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/13/11 10:03	07/14/11 12:04	1
Iron	50	U	200	50	ug/L		07/13/11 10:03	07/14/11 12:04	1
Sodium	8.6		0.50	0.31	mg/L		07/13/11 10:03	07/14/11 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		0.50	0.20	mg/L			07/18/11 17:10	1
Ammonia as N	0.17		0.020	0.010	mg/L			07/20/11 13:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	5.0	mg/L			07/14/11 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.14				SU			07/08/11 09:44	1
Field Temperature	25.81				Degrees C			07/08/11 09:44	1
Oxygen, Dissolved	0.22				mg/L			07/08/11 09:44	1
Specific Conductance	157				umhos/cm			07/08/11 09:44	1
Turbidity	2.50				NTU			07/08/11 09:44	1

Client Sample ID: SUP 1 WACS# 27755
Date Collected: 07/08/11 10:42
Date Received: 07/08/11 13:30

Lab Sample ID: 660-42246-3
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/13/11 10:03	07/14/11 12:08	1
Iron	50	U	200	50	ug/L		07/13/11 10:03	07/14/11 12:08	1
Sodium	8.8		0.50	0.31	mg/L		07/13/11 10:03	07/14/11 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		0.50	0.20	mg/L			07/18/11 17:26	1
Ammonia as N	0.16		0.020	0.010	mg/L			07/20/11 14:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		5.0	5.0	mg/L			07/14/11 14:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.60				SU			07/08/11 10:42	1
Field Temperature	24.47				Degrees C			07/08/11 10:42	1
Oxygen, Dissolved	0.07				mg/L			07/08/11 10:42	1
Specific Conductance	350				umhos/cm			07/08/11 10:42	1
Turbidity	0.23				NTU			07/08/11 10:42	1

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: SUP 2 WACS# 27756
Date Collected: 07/08/11 10:14
Date Received: 07/08/11 13:30

Lab Sample ID: 660-42246-4
Matrix: Water

6

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/13/11 10:03	07/14/11 12:11	1
Iron	400		200	50	ug/L		07/13/11 10:03	07/14/11 12:11	1
Sodium	11		0.50	0.31	mg/L		07/13/11 10:03	07/14/11 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		0.50	0.20	mg/L			07/18/11 17:43	1
Ammonia as N	0.87		0.020	0.010	mg/L			07/20/11 14:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		5.0	5.0	mg/L			07/14/11 14:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.50				SU			07/08/11 10:14	1
Field Temperature	24.39				Degrees C			07/08/11 10:14	1
Oxygen, Dissolved	0.07				mg/L			07/08/11 10:14	1
Specific Conductance	356				umhos/cm			07/08/11 10:14	1
Turbidity	0.19				NTU			07/08/11 10:14	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-112312/1-A
Matrix: Water
Analysis Batch: 112382

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 112312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/12/11 11:42	07/13/11 11:32	1
Iron	50	U	200	50	ug/L		07/12/11 11:42	07/13/11 11:32	1
Sodium	0.31	U	0.50	0.31	mg/L		07/12/11 11:42	07/13/11 11:32	1

Lab Sample ID: LCS 660-112312/2-A
Matrix: Water
Analysis Batch: 112382

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 112312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1000		ug/L		100	75 - 125
Iron	1000	971		ug/L		97	75 - 125
Sodium	10.0	9.92		mg/L		99	75 - 125

Lab Sample ID: 660-42232-C-13-B MS
Matrix: Water
Analysis Batch: 112382

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 112312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	4.0	U	1000	1020		ug/L		102	75 - 125
Iron	1300		1000	2260		ug/L		99	75 - 125
Sodium	12		10.0	22.0		mg/L		101	75 - 125

Lab Sample ID: 660-42232-C-13-C MSD
Matrix: Water
Analysis Batch: 112382

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 112312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1010		ug/L		101	75 - 125	1	20
Iron	1300		1000	2200		ug/L		93	75 - 125	3	20
Sodium	12		10.0	21.5		mg/L		95	75 - 125	3	20

Lab Sample ID: MB 660-112358/1-A
Matrix: Water
Analysis Batch: 112438

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 112358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/13/11 10:03	07/14/11 11:26	1
Iron	50	U	200	50	ug/L		07/13/11 10:03	07/14/11 11:26	1
Sodium	0.31	U	0.50	0.31	mg/L		07/13/11 10:03	07/14/11 11:26	1

Lab Sample ID: LCS 660-112358/2-A
Matrix: Water
Analysis Batch: 112438

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 112358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1010		ug/L		101	75 - 125
Iron	1000	1010		ug/L		101	75 - 125
Sodium	10.0	9.99		mg/L		100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 660-42232-C-23-B MS
Matrix: Water
Analysis Batch: 112438

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 112358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	4.0	U	1000	1040		ug/L		104	75 - 125
Iron	910		1000	1930		ug/L		102	75 - 125
Sodium	25		10.0	35.1		mg/L		104	75 - 125

Lab Sample ID: 660-42232-C-23-C MSD
Matrix: Water
Analysis Batch: 112438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 112358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1030		ug/L		103	75 - 125	1	20
Iron	910		1000	1940		ug/L		102	75 - 125	0	20
Sodium	25		10.0	34.8		mg/L		101	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-112588/3
Matrix: Water
Analysis Batch: 112588

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/18/11 11:56	1

Lab Sample ID: LCS 660-112588/4
Matrix: Water
Analysis Batch: 112588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	10.0	9.91		mg/L		99	90 - 110

Lab Sample ID: 660-42277-C-2 MS ^5
Matrix: Water
Analysis Batch: 112588

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	120		50.0	169		mg/L		97	90 - 110

Lab Sample ID: 660-42277-C-2 MSD ^5
Matrix: Water
Analysis Batch: 112588

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	120		50.0	167		mg/L		92	90 - 110	1	30

Lab Sample ID: MB 660-112627/3
Matrix: Water
Analysis Batch: 112627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/19/11 09:24	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-112627/4
Matrix: Water
Analysis Batch: 112627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	10.0	9.99		mg/L		100	90 - 110

Lab Sample ID: 660-42217-7 MS
Matrix: Water
Analysis Batch: 112627

Client Sample ID: TH-19 WACS# 821
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	8.1		10.0	18.6		mg/L		105	90 - 110

Lab Sample ID: 660-42217-7 MSD
Matrix: Water
Analysis Batch: 112627

Client Sample ID: TH-19 WACS# 821
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	8.1		10.0	18.7		mg/L		106	90 - 110	1	30

Lab Sample ID: MB 660-112716/3
Matrix: Water
Analysis Batch: 112716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/21/11 09:33	1

Lab Sample ID: LCS 660-112716/4
Matrix: Water
Analysis Batch: 112716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	10.0	10.9		mg/L		109	90 - 110

Lab Sample ID: 660-42217-3 MS
Matrix: Water
Analysis Batch: 112716

Client Sample ID: TH-58 WACS# 1571
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	210	J3	100	323	J3	mg/L		116	90 - 110

Lab Sample ID: 660-42217-3 MSD
Matrix: Water
Analysis Batch: 112716

Client Sample ID: TH-58 WACS# 1571
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	210	J3	100	310		mg/L		103	90 - 110	4	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-112572/3
Matrix: Water
Analysis Batch: 112572

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			07/18/11 14:40	1

Lab Sample ID: LCS 660-112572/4
Matrix: Water
Analysis Batch: 112572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.500	0.494		mg/L		99	90 - 110

Lab Sample ID: 660-42217-1 MS
Matrix: Water
Analysis Batch: 112572

Client Sample ID: TH-73 WACS# 27754
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.52		1.00	1.45		mg/L		93	90 - 110

Lab Sample ID: 660-42217-1 MSD
Matrix: Water
Analysis Batch: 112572

Client Sample ID: TH-73 WACS# 27754
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ammonia as N	0.52		1.00	1.45		mg/L		93	90 - 110	0	30

Lab Sample ID: MB 660-112668/11
Matrix: Water
Analysis Batch: 112668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			07/20/11 13:51	1

Lab Sample ID: LCS 660-112668/12
Matrix: Water
Analysis Batch: 112668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.600	0.588		mg/L		98	90 - 110

Lab Sample ID: 660-42232-A-25 MS
Matrix: Water
Analysis Batch: 112668

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.069		1.00	0.996		mg/L		93	90 - 110

Lab Sample ID: 660-42232-A-25 MSD
Matrix: Water
Analysis Batch: 112668

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ammonia as N	0.069		1.00	0.997		mg/L		93	90 - 110	0	30

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 660-112265/1
Matrix: Water
Analysis Batch: 112265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/11/11 14:36	1

Lab Sample ID: LCS 660-112265/2
Matrix: Water
Analysis Batch: 112265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	10000	9890		mg/L		99	80 - 120

Lab Sample ID: 660-42217-2 DU
Matrix: Water
Analysis Batch: 112265

Client Sample ID: TH-72 WACS# 27753
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		156		mg/L		4	20

Lab Sample ID: MB 660-112431/1
Matrix: Water
Analysis Batch: 112431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/14/11 12:36	1

Lab Sample ID: LCS 660-112431/2
Matrix: Water
Analysis Batch: 112431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	10000	9870		mg/L		99	80 - 120

Lab Sample ID: 660-42217-1 DU
Matrix: Water
Analysis Batch: 112431

Client Sample ID: TH-73 WACS# 27754
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	350		340		mg/L		3	20

Lab Sample ID: MB 660-112447/1
Matrix: Water
Analysis Batch: 112447

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/14/11 14:51	1

Lab Sample ID: LCS 660-112447/2
Matrix: Water
Analysis Batch: 112447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	10000	9850		mg/L		99	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 660-42243-A-4 DU
Matrix: Water
Analysis Batch: 112447

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	350			348		mg/L				0.6	20

Metals

Prep Batch: 112312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112312/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 660-112312/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
660-42232-C-13-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-42232-C-13-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-42217-1	TH-73 WACS# 27754	Total Recoverable	Water	3005A	
660-42217-2	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-42217-3	TH-58 WACS# 1571	Total Recoverable	Water	3005A	
660-42217-4	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-42217-5	TH-40 WACS# 822	Total Recoverable	Water	3005A	
660-42217-6	TH-30 WACS# 1065	Total Recoverable	Water	3005A	
660-42217-7	TH-19 WACS# 821	Total Recoverable	Water	3005A	
660-42217-8	Duplicate 42217	Total Recoverable	Water	3005A	
660-42217-9	Blank, Equipment 42217	Total Recoverable	Water	3005A	

Prep Batch: 112358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112358/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 660-112358/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
660-42232-C-23-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-42232-C-23-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-42246-1	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
660-42246-2	TH-57 WACS# 1570	Total Recoverable	Water	3005A	
660-42246-3	SUP 1 WACS# 27755	Total Recoverable	Water	3005A	
660-42246-4	SUP 2 WACS# 27756	Total Recoverable	Water	3005A	

Analysis Batch: 112382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112312/1-A	Method Blank	Total Recoverable	Water	6010B	112312
LCS 660-112312/2-A	Lab Control Sample	Total Recoverable	Water	6010B	112312
660-42232-C-13-B MS	Matrix Spike	Total Recoverable	Water	6010B	112312
660-42232-C-13-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	112312
660-42217-1	TH-73 WACS# 27754	Total Recoverable	Water	6010B	112312
660-42217-2	TH-72 WACS# 27753	Total Recoverable	Water	6010B	112312
660-42217-3	TH-58 WACS# 1571	Total Recoverable	Water	6010B	112312
660-42217-4	TH-42 WACS# 823	Total Recoverable	Water	6010B	112312
660-42217-5	TH-40 WACS# 822	Total Recoverable	Water	6010B	112312
660-42217-6	TH-30 WACS# 1065	Total Recoverable	Water	6010B	112312
660-42217-7	TH-19 WACS# 821	Total Recoverable	Water	6010B	112312
660-42217-8	Duplicate 42217	Total Recoverable	Water	6010B	112312
660-42217-9	Blank, Equipment 42217	Total Recoverable	Water	6010B	112312

Analysis Batch: 112438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112358/1-A	Method Blank	Total Recoverable	Water	6010B	112358
LCS 660-112358/2-A	Lab Control Sample	Total Recoverable	Water	6010B	112358
660-42232-C-23-B MS	Matrix Spike	Total Recoverable	Water	6010B	112358
660-42232-C-23-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	112358
660-42246-1	TH-28A WACS# 19862	Total Recoverable	Water	6010B	112358
660-42246-2	TH-57 WACS# 1570	Total Recoverable	Water	6010B	112358
660-42246-3	SUP 1 WACS# 27755	Total Recoverable	Water	6010B	112358
660-42246-4	SUP 2 WACS# 27756	Total Recoverable	Water	6010B	112358

General Chemistry

Analysis Batch: 112265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112265/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 660-112265/2	Lab Control Sample	Total/NA	Water	SM 2540C	
660-42217-2	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	
660-42217-2 DU	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	

Analysis Batch: 112431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112431/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 660-112431/2	Lab Control Sample	Total/NA	Water	SM 2540C	
660-42217-1	TH-73 WACS# 27754	Total/NA	Water	SM 2540C	
660-42217-1 DU	TH-73 WACS# 27754	Total/NA	Water	SM 2540C	
660-42217-3	TH-58 WACS# 1571	Total/NA	Water	SM 2540C	
660-42217-4	TH-42 WACS# 823	Total/NA	Water	SM 2540C	
660-42217-5	TH-40 WACS# 822	Total/NA	Water	SM 2540C	
660-42217-6	TH-30 WACS# 1065	Total/NA	Water	SM 2540C	
660-42217-7	TH-19 WACS# 821	Total/NA	Water	SM 2540C	
660-42217-8	Duplicate 42217	Total/NA	Water	SM 2540C	
660-42217-9	Blank, Equipment 42217	Total/NA	Water	SM 2540C	

Analysis Batch: 112447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112447/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 660-112447/2	Lab Control Sample	Total/NA	Water	SM 2540C	
660-42243-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	
660-42246-1	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-42246-2	TH-57 WACS# 1570	Total/NA	Water	SM 2540C	
660-42246-3	SUP 1 WACS# 27755	Total/NA	Water	SM 2540C	
660-42246-4	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	

Analysis Batch: 112572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112572/3	Method Blank	Total/NA	Water	350.1	
LCS 660-112572/4	Lab Control Sample	Total/NA	Water	350.1	
660-42217-1	TH-73 WACS# 27754	Total/NA	Water	350.1	
660-42217-1 MS	TH-73 WACS# 27754	Total/NA	Water	350.1	
660-42217-1 MSD	TH-73 WACS# 27754	Total/NA	Water	350.1	
660-42217-2	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-42217-3	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-42217-4	TH-42 WACS# 823	Total/NA	Water	350.1	
660-42217-5	TH-40 WACS# 822	Total/NA	Water	350.1	
660-42217-6	TH-30 WACS# 1065	Total/NA	Water	350.1	
660-42217-7	TH-19 WACS# 821	Total/NA	Water	350.1	
660-42217-8	Duplicate 42217	Total/NA	Water	350.1	
660-42217-9	Blank, Equipment 42217	Total/NA	Water	350.1	

Analysis Batch: 112588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112588/3	Method Blank	Total/NA	Water	300.0	
LCS 660-112588/4	Lab Control Sample	Total/NA	Water	300.0	
660-42277-C-2 MS ^5	Matrix Spike	Total/NA	Water	300.0	
660-42277-C-2 MSD ^5	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-42246-1	TH-28A WACS# 19862	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 112588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-42246-2	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-42246-3	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-42246-4	SUP 2 WACS# 27756	Total/NA	Water	300.0	

Analysis Batch: 112627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112627/3	Method Blank	Total/NA	Water	300.0	
LCS 660-112627/4	Lab Control Sample	Total/NA	Water	300.0	
660-42217-1	TH-73 WACS# 27754	Total/NA	Water	300.0	
660-42217-2	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-42217-4	TH-42 WACS# 823	Total/NA	Water	300.0	
660-42217-5	TH-40 WACS# 822	Total/NA	Water	300.0	
660-42217-6	TH-30 WACS# 1065	Total/NA	Water	300.0	
660-42217-7	TH-19 WACS# 821	Total/NA	Water	300.0	
660-42217-7 MS	TH-19 WACS# 821	Total/NA	Water	300.0	
660-42217-7 MSD	TH-19 WACS# 821	Total/NA	Water	300.0	

Analysis Batch: 112668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112668/11	Method Blank	Total/NA	Water	350.1	
LCS 660-112668/12	Lab Control Sample	Total/NA	Water	350.1	
660-42232-A-25 MS	Matrix Spike	Total/NA	Water	350.1	
660-42232-A-25 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-42246-1	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-42246-2	TH-57 WACS# 1570	Total/NA	Water	350.1	
660-42246-3	SUP 1 WACS# 27755	Total/NA	Water	350.1	
660-42246-4	SUP 2 WACS# 27756	Total/NA	Water	350.1	

Analysis Batch: 112716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-112716/3	Method Blank	Total/NA	Water	300.0	
LCS 660-112716/4	Lab Control Sample	Total/NA	Water	300.0	
660-42217-3	TH-58 WACS# 1571	Total/NA	Water	300.0	
660-42217-8	Duplicate 42217	Total/NA	Water	300.0	
660-42217-9	Blank, Equipment 42217	Total/NA	Water	300.0	
660-42217-3 MS	TH-58 WACS# 1571	Total/NA	Water	300.0	
660-42217-3 MSD	TH-58 WACS# 1571	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 112478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-42217-1	TH-73 WACS# 27754	Total/NA	Water	Field Sampling	
660-42217-2	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-42217-3	TH-58 WACS# 1571	Total/NA	Water	Field Sampling	
660-42217-4	TH-42 WACS# 823	Total/NA	Water	Field Sampling	
660-42217-5	TH-40 WACS# 822	Total/NA	Water	Field Sampling	
660-42217-6	TH-30 WACS# 1065	Total/NA	Water	Field Sampling	
660-42217-7	TH-19 WACS# 821	Total/NA	Water	Field Sampling	
660-42246-1	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	
660-42246-2	TH-57 WACS# 1570	Total/NA	Water	Field Sampling	
660-42246-3	SUP 1 WACS# 27755	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 112478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-42246-4	SUP 2 WACS# 27756	Total/NA	Water	Field Sampling	

Client Sample ID: TH-73 WACS# 27754
Date Collected: 07/07/11 11:48
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:27	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:37	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:43	TO	TAL TAM
Total/NA	Analysis	300.0		1	112627	07/19/11 10:47	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 11:48		TAL TAM

Client Sample ID: TH-72 WACS# 27753
Date Collected: 07/07/11 12:08
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:30	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112265	07/11/11 14:47	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:46	TO	TAL TAM
Total/NA	Analysis	300.0		2	112627	07/19/11 11:03	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 12:08		TAL TAM

Client Sample ID: TH-58 WACS# 1571
Date Collected: 07/07/11 11:22
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:33	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:48	TO	TAL TAM
Total/NA	Analysis	300.0		10	112716	07/21/11 10:23	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 11:22		TAL TAM

Client Sample ID: TH-42 WACS# 823
Date Collected: 07/07/11 10:27
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:43	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:39	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:49	TO	TAL TAM
Total/NA	Analysis	300.0		1	112627	07/19/11 11:36	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 10:27		TAL TAM

Client Sample ID: TH-40 WACS# 822
Date Collected: 07/07/11 09:10
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:46	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:39	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:50	TO	TAL TAM
Total/NA	Analysis	300.0		1	112627	07/19/11 11:53	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 09:10		TAL TAM

Client Sample ID: TH-30 WACS# 1065
Date Collected: 07/07/11 11:00
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:49	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:40	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:51	TO	TAL TAM
Total/NA	Analysis	300.0		2	112627	07/19/11 12:09	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 11:00		TAL TAM

Client Sample ID: TH-19 WACS# 821
Date Collected: 07/07/11 09:47
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:53	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:40	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:52	TO	TAL TAM
Total/NA	Analysis	300.0		1	112627	07/19/11 12:26	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/07/11 09:47		TAL TAM

Client Sample ID: Duplicate 42217
Date Collected: 07/07/11 00:00
Date Received: 07/07/11 13:20

Lab Sample ID: 660-42217-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:56	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:41	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:54	TO	TAL TAM
Total/NA	Analysis	300.0		2	112716	07/21/11 10:39	TS	TAL TAM

Client Sample ID: Blank, Equipment 42217

Lab Sample ID: 660-42217-9

Date Collected: 07/07/11 08:50

Matrix: Water

Date Received: 07/07/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112312	07/12/11 11:42	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112382	07/13/11 12:59	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	112431	07/14/11 12:41	TO	TAL TAM
Total/NA	Analysis	350.1		1	112572	07/18/11 14:55	TO	TAL TAM
Total/NA	Analysis	300.0		1	112716	07/21/11 10:56	TS	TAL TAM

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-42246-1

Date Collected: 07/08/11 09:23

Matrix: Water

Date Received: 07/08/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112358	07/13/11 10:03	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112438	07/14/11 11:55	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	112447	07/14/11 14:54	TO	TAL TAM
Total/NA	Analysis	300.0		1	112588	07/18/11 16:53	TS	TAL TAM
Total/NA	Analysis	350.1		1	112668	07/20/11 13:57	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/08/11 09:23		TAL TAM

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-42246-2

Date Collected: 07/08/11 09:44

Matrix: Water

Date Received: 07/08/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112358	07/13/11 10:03	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112438	07/14/11 12:04	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	112447	07/14/11 14:54	TO	TAL TAM
Total/NA	Analysis	300.0		1	112588	07/18/11 17:10	TS	TAL TAM
Total/NA	Analysis	350.1		1	112668	07/20/11 13:59	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/08/11 09:44		TAL TAM

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-42246-3

Date Collected: 07/08/11 10:42

Matrix: Water

Date Received: 07/08/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112358	07/13/11 10:03	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112438	07/14/11 12:08	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	112447	07/14/11 14:55	TO	TAL TAM
Total/NA	Analysis	300.0		1	112588	07/18/11 17:26	TS	TAL TAM
Total/NA	Analysis	350.1		1	112668	07/20/11 14:00	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/08/11 10:42		TAL TAM

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Client Sample ID: SUP 2 WACS# 27756
Date Collected: 07/08/11 10:14
Date Received: 07/08/11 13:30

Lab Sample ID: 660-42246-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			112358	07/13/11 10:03	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	112438	07/14/11 12:11	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	112447	07/14/11 14:55	TO	TAL TAM
Total/NA	Analysis	300.0		1	112588	07/18/11 17:43	TS	TAL TAM
Total/NA	Analysis	350.1		1	112668	07/20/11 14:01	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	112478	07/08/11 10:14		TAL TAM

Laboratory References:
TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	USDA		P330-11-00177

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL TAM
300.0	Anions, Ion Chromatography	MCAWW	TAL TAM
350.1	Nitrogen, Ammonia	MCAWW	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater".

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Landfill Monitoring Wells

TestAmerica Job ID: 660-42217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-42217-1	TH-73 WACS# 27754	Water	07/07/11 11:48	07/07/11 13:20
660-42217-2	TH-72 WACS# 27753	Water	07/07/11 12:08	07/07/11 13:20
660-42217-3	TH-58 WACS# 1571	Water	07/07/11 11:22	07/07/11 13:20
660-42217-4	TH-42 WACS# 823	Water	07/07/11 10:27	07/07/11 13:20
660-42217-5	TH-40 WACS# 822	Water	07/07/11 09:10	07/07/11 13:20
660-42217-6	TH-30 WACS# 1065	Water	07/07/11 11:00	07/07/11 13:20
660-42217-7	TH-19 WACS# 821	Water	07/07/11 09:47	07/07/11 13:20
660-42217-8	Duplicate 42217	Water	07/07/11 00:00	07/07/11 13:20
660-42217-9	Blank, Equipment 42217	Water	07/07/11 08:50	07/07/11 13:20
660-42246-1	TH-28A WACS# 19862	Water	07/08/11 09:23	07/08/11 13:30
660-42246-2	TH-57 WACS# 1570	Water	07/08/11 09:44	07/08/11 13:30
660-42246-3	SUP 1 WACS# 27755	Water	07/08/11 10:42	07/08/11 13:30
660-42246-4	SUP 2 WACS# 27756	Water	07/08/11 10:14	07/08/11 13:30

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: TH-73 WACS#27754 SAMPLE MATRIX: WATER OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION A. Balloon SJC

WELL DIAMETER: 2 INCH:
TOTAL DEPTH OF WELL: 43.40 Ft.
DEPTH TO WATER: 31.51 Ft.
LENGTH OF WATER COL: 11.89 Ft.
VOLUME TO PURGE: 1.90 Gal.

	DATE	TIME
PURGE STARTED:	7-7-11	11:37
PURGE RATE:	0.30	GPM.
PURGE ENDED:	7-7-11	11:47
ACT. VOL. PURGED:	3.00	GAL.

Draw Down 35.20

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:43	25.34	312	5.13	0.37	20.5 =
AB JC	11:45	25.34	304	5.11	0.32	20.1
AB JC	11:47	25.34	304	5.13	0.35	19.2

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SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

Colors and Sheens _____

COLLECTED
DATE | TIME
7-7-11 | 11:48

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES | DATE | TIME
RELINQUISHED BY: _____ REP. OF SOLID WASTE DEPT. 7-7-11 | 1:20
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 7-7-11 | 1:20

COMMENTS: WO #00556 4.6° CV07

660-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-72 WACS# 27753** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☐ A. Balloon ☒ JC ☐ _____

WELL DIAMETER: 2 INCH:
TOTAL DEPTH OF WELL: 190.00 Ft.
DEPTH TO WATER: 112.76 Ft.
LENGTH OF WATER COL: 77.24 Ft.
VOLUME TO PURGE: 12.34 Gal.

	DATE	TIME
PURGE STARTED:	7-7-11	11:40
PURGE RATE:	0.50	GPM.
	DATE	TIME
PURGE ENDED:	7-7-11	12:08
ACT. VOL. PURGED:	14.00	GAL.

Draw Down: 112.75

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:04	23.27	605	7.32	0.71	3.44 =
AB JC	12:06	23.26	606	7.32	0.69	3.26
AB JC	12:08	23.25	606	7.40	0.72	3.94

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SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

Colors and Sheens _____

COLLECTED
DATE | TIME
7-7-11 | 12:08

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: | DATE | TIME
RELINQUISHED BY: _____ REP. OF SOLID WASTE DEPT. 7-7-11 1:20
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 7-7-11 1:20

COMMENT`S: WO#00056 4.6° CU07

660-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-58 WACS# 1571** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A.Balloon ☒ JC ☐

WELL DIAMETER: 2.0 INCH:

				DATE	TIME
TOTAL DEPTH OF WELL:	32.92 Ft.	PURGE STARTED:		7-7-11	11:14
DEPTH TO WATER:	27.82 Ft.	PURGE RATE:		0.20	GPM.
LENGTH OF WATER COL:	5.10 Ft.			DATE	TIME
VOLUME TO PURGE:	0.82 Gal.	PURGE ENDED:		7-7-11	11:22
		ACT. VOL. PURGED:		1.60	GAL.

Draw Down : 27.95

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
AB JC	11:18	25.66	1025	5.72	6.85	7.84	=
AB JC	11:20	25.62	993	5.70	0.73	6.44	
AB JC	11:22	25.62	998	5.70	0.75	4.49	

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED DATE	TIME
7-7-11	11:22

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: | DATE | TIME

RELINQUISHED BY: _____ REP. OF SOLID WASTE DEPT. 7-7-11 | 1:20

ACCEPTED BY: _____ REP. OF CONTRACT LAB. 7-7-11 | 1:20

COMMENTS: WO#00046 4.6 c GW07

669-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-42 WACS# 823** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ ~~A.~~ Balloon ☑ JC ☐

WELL DIAMETER: **2.0** INCH:

TOTAL DEPTH OF WELL: 164 Ft.

DEPTH TO WATER: 85.99 Ft.

LENGTH OF WATER COL: 78.01 Ft.

VOLUME TO PURGE: 12.48 Gal.

	DATE	TIME
PURGE STARTED:	7-7-11	10:03
PURGE RATE:	0.60	GPM.
	DATE	TIME
PURGE ENDED:	7-7-11	10:27
ACT. VOL. PURGED:	14.4	GAL.

Draw Down: 163.10

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:23	23.83	541	7.24	0.27	21.9
AB JC	10:25	23.83	541	7.25	0.27	19.2
AB JC	10:27	23.85	541	7.24	0.27	18.1

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-7-11 10:27

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic Dissolved Sodium Dissolved Iron Dissolved Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: | DATE | TIME

RELINQUISHED BY: _____ REP. OF SOLID WASTE DEPT. 7-7-11 1:20

ACCEPTED BY: _____ REP. OF CONTRACT LAB. 7-7-11 1:20

COMMENT`S: WO# 0048 4.6 c CUT

660-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-40 WACS# 822** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☐ **A.Balloon** ☑ JC ☐

WELL DIAMETER: **2.0** INCH:

TOTAL DEPTH OF WELL: 165.90 Ft.

DEPTH TO WATER: 105.02 Ft.

LENGTH OF WATER COL: 60.88 Ft.

VOLUME TO PURGE: 9.74 Gal.

	DATE	TIME
PURGE STARTED:	7-7-11	8:56
PURGE RATE:	1.00	GPM.
PURGE ENDED:	7-7-11	9:10
ACT. VOL. PURGED:	14.00	GAL.

Draw Down: 104.99

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:06	23.53	430	7.44	0.51	0.33
AB JC	9:08	23.58	430	7.46	0.51	0.35
AB JC	9:10	23.53	430	7.46	0.51	0.35

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-7-11 9:10

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

		DATE	TIME
RELINQUISHED BY: [signature]	REP. OF SOLID WASTE DEPT.	7.7.11	1:20
ACCEPTED BY: [signature]	REP. OF CONTRACT LAB.	7.7.11	1:20

COMMENTS: WO #00446 4.6° GV07

660-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-30 WACS# 1065** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☐ ~~A.Balloon~~ ☒ JC ☐

WELL DIAMETER: 2.00 INCH:

TOTAL DEPTH OF WELL: 46.19 Ft.

DEPTH TO WATER: 24.00 Ft.

LENGTH OF WATER COL: 22.19 Ft.

VOLUME TO PURGE: 3.55 Gal.

	DATE	TIME
PURGE STARTED:	7-7-11	~~10:56~~ 10:48
PURGE RATE:	0.40 GPM.	
PURGE ENDED:	7-7-11	11:00
ACT. VOL. PURGED:	4.80 GAL.	

Draw Down: 24.20

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:56	23.43	264	4.45	0.35	3.89
AB JC	10:58	23.42	266	4.48	0.30	3.71
AB JC	11:00	23.42	266	4.47	0.30	4.25

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-7-11 | 11:00

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 7-7-11 1:20

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-7-11 1:20

COMMENTS: WOH 0046 4.6° CU07

660-42217

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HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-19 WACS# 821** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ~~A.~~ Balloon ☐ JC ☐

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 153.60 Ft.
DEPTH TO WATER: 107.86 Ft.
LENGTH OF WATER COL: 45.74 Ft.
VOLUME TO PURGE: 7.32 Gal.

	DATE	TIME
PURGE STARTED:	7-7-11	9:35
PURGE RATE:	1.00 GPM.	
PURGE ENDED:	7-7-11	9:47
ACT. VOL. PURGED:	12 GAL.	

Draw Down: 108.02

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:43	23.53	430	7.38	0.36	0.41
AB JC	9:45	23.53	430	7.37	0.36	0.38
AB JC	9:47	23.53	430	7.37	0.37	0.33

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-7-11 9:47

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. DATE | TIME 7-7-11 1:20
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-7-11 1:20

COMMENT'S: WO# 00 46 4.6° CW07

669-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

MONITORING WELLS DUPLICATE SAMPLE

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. _____ | 2:30

LOCATION: **DUPLICATE** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION : ☒ A.Balloon ☒ JC ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-7-11 | NA

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: _____ REP. OF SOLID WASTE DEPT. 7.7.11 | 1:20
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 7.7.11 | 1:20

COMMENTS: WO# 00046 4.6 c CU07

660-42217

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HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

MONITORING WELLS BLANK, EQUIPMENT

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 12:30

LOCATION: **BLANK, EQUIPMENT** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A.Balloon ☒ JC ☐ ____

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-7-11 | 8:50

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: DATE | TIME

RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 7-7-11 | 1:20

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-7-11 | 1:20

COMMENT`S: WO# 00246 4.6° C/D7

660-42217

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **TH-28A WACS# 19862** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ JC ☐ ____

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 34.30 Ft.

DEPTH TO WATER: 27.50 Ft.

LENGTH OF WATER COL: 6.80 Ft.

VOLUME TO PURGE: 1.09 Gal.

	DATE	TIME
PURGE STARTED:	7-8-11	9:15
PURGE RATE:	0.25 GPM.	
PURGE ENDED:	7-8-11	9:23
ACT. VOL. PURGED:	2.00 GAL.	

Draw Down: 28.55

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:19	24.26	208	5.19	0.40	7.12 =
AB JC	9:21	24.24	207	5.17	0.59	3.40
AB JC	9:23	24.22	207	5.14	0.58	3.40

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-8-11 9:23

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 Y≤5 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 7-8-11 1:30

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-8-11 1:30

COMMENTS: WO # 00046 4.2° CUOT

660-42246

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: TH-57 WACS# 1570 SAMPLE MATRIX: WATER OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☐ A.Balloon ☐ JL ☐

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 26.83 Ft.
DEPTH TO WATER: 18.62 Ft.
LENGTH OF WATER COL: 8.21 Ft.
VOLUME TO PURGE: 1.31 Gal.

	DATE	TIME
PURGE STARTED:	7-8-11	9:35
PURGE RATE:	0.25	GPM.
	DATE	TIME
PURGE ENDED:	7-8-11	9:44
ACT. VOL. PURGED:	2.25	GAL.

Draw Down: 19.84

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:40	25.82	155	5.13	0.27	3.50
AB JC	9:42	25.81	155	5.14	0.25	2.80
AB JC	9:44	25.81	157	5.14	0.22	2.50

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-8-11 | 9:44

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: | DATE | TIME
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 7-8-11 | 1:30
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-8-11 | 1:30

COMMENT`S: WO# 00 46

660-42246

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. | 2:30

LOCATION: **SUP 1 WACS# 27755** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☐ **A.Balloon** ☑ JC ☐

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 7-8-11 TIME 10:23
ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:38	24.46	350	7.49	0.06	0.22 =
AB JC	10:40	24.47	350	7.50	0.06	0.21
AB JC	10:42	24.47	350	7.50	0.07	0.23

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED
DATE | TIME
7-8-11 | 10:42

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 7-8-11 1:30
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-8-11 1:80

COMMENT`S: WO # 00056

660-42246

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 6-24-11 | 0935

ACCEPTED BY: [signature] ~~REP.~~ OF SOLID WASTE DEPT. | 12.30

LOCATION: **SUP 2 WACS# 27756** SAMPLE MATRIX: **WATER** OTHER MATRIX: ____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☐ ~~A. Balloon~~ ☑ JC ☐

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 7-8-11 TIME 9:55

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:10	24.39	356	7.49	0.08	0.19
AB JC	10:12	24.39	356	7.49	0.07	0.20
AB JC	10:14	24.39	356	7.50	0.07	0.19

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 **TOTAL No. OF SAMPLES COLLECTED:**

COLLECTED DATE	TIME
7-8-11	9:14

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES DATE | TIME

RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 7-8-11 1:30

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 7-8-11 1:30

COMMENT'S: WO# 00 56

060-42246

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Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-42217-1

Login Number: 42217

List Source: TestAmerica Tampa

List Number: 1

Creator: Jones, Matt

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	4.6c - CU07
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-42217-1

Login Number: 42246
List Number: 1
Creator: Jones, Matt

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	1.2c - CU07
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
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Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	