Hillsborough County
Florida

Office of the County Administrator
Michael S. Merrill

October 13, 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. 13

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly 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. The monthly sampling event was conducted on September 8-9, 2011, and the samples collected 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 (2) 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 (5) 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 4.44 to 5.70 pH units. The pH values within the surficial aquifer at the SCLF have historically been below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in the four (4) upper Floridan monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and continue to be 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 value in P-18S could not be reduced to below 20 NTU, therefore, a groundwater sample was again 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 exhibit turbid groundwater conditions. The turbidity value recorded in TH-42 was 18.2 NTU, indicating that the development of this previously unused monitoring well has been effective.

Conductivity

The conductivity values are relatively low and have remained consistent with historical values associated with the SCLF, except for TH-58. This well has exhibited elevated conductivity values over the past year, and it appears that an upward trend began in November of 2010. However, the values have shown dramatic swings upward and downward since. The conductivity value observed in September was 1239 uhmos/cm, which is a significant decrease from the 2167 uhmos/com in August. The conductivity values in this well will continue to be evaluated.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring well, TH-58, exhibited a TDS concentration of 1,200 mg/l, which is lower then the previous month's result of 1,700 mg/l. However, this value continues to exceed the SDWS of 500 mg/l. Over the period of record, TDS values began to trend upward during the June sampling event, but the decrease in value this month may be indicative of water quality changes associated with the fluids introduced into the surficial aquifer during the sinkhole grouting activities.

Chloride

Surficial aquifer groundwater monitoring well, TH-58, exhibited chloride at a concentration of 570 mg/l, which is lower then the previous month's result of 660 mg/l. However, this value continues to exceed the SDWS of 250 mg/l. Over the period of record, chloride values began to trend upward during the June sampling event, but the decrease in value this month may be indicative of changes in that trend. The chloride values in all the other wells are well below the SDWS.

Arsenic

The arsenic observed in TH-58 is 0.026 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, and the concentration has remained consistent while other parameters have exhibited changes. 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. Although changes in water quality have been observed in TH-58 over the past six months, the arsenic values have remained very stable. This observation supports the position that the arsenic is not attributable to the landfill or the sinkhole.

Iron

Iron concentrations in four (4) surficial aquifer wells and one upper Floridan well were observed above the SDWS of 0.3 mg/l. The concentrations of iron ranged from below the detection limit (BDL) to 8.5 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. The iron value observed in TH-42 at 0.37 mg/l may be naturally occurring in the weathered limestone and clay strata, and partially attributable to the potential turbidity associated bias from the 18.2 NTU value observed.

Conclusions

Water quality observed in the groundwater samples collected as part of this sampling event remains consistent with the historical data set for the site, with the exception of the changes observed in the surficial aquifer monitoring well TH-58. The water quality in this well, and specifically the values for conductitivity, total dissolved solids and chloride, indicate impacts from the sinkhole and/or the grouting activities. The County will continue to look for changes in water quality at all the wells sampled, but a focused evaluation of water quality in TH-58 will continue. The observed impacts remain in close proximity to the sinkhole within the surficial aquifer and are not present within the deeper upper Floridan aquifer.

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 on-site supply wells. The County will continue to provide the IAMP reports within the specified time frames, and evaluate all available data as part of the ongoing assessment activities.

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 10/13/2011

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

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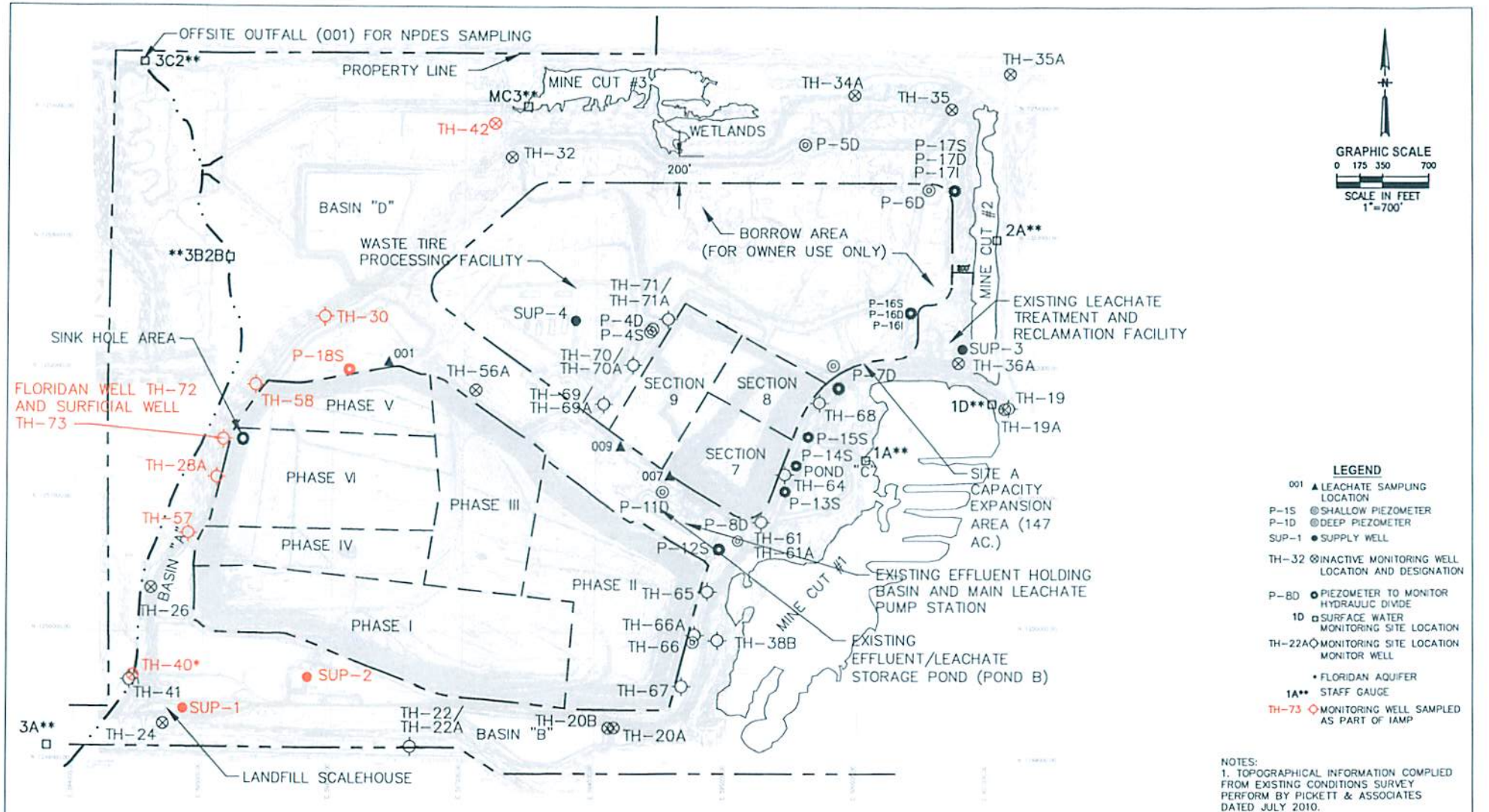
Final copy scanned to LFS/Southeast/Sinkhole/SCLF – IAMP Report No 13.



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:\pwworking\tsaik\d0266713\Well Location Map - Revised 3-2-11.dwg, Plot, 3/3/2011 11:20:00 AM, BradJohn

Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
September 8-9, 2011

GENERAL (mg/l) PARAMETERS	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
conductivity (umhos/cm) (field)	397	202	251	370	499	183	1239	536	259	323	347	NS
dissolved oxygen (mg/l) (field)	0.80	0.49	0.21	1.04	0.22	0.27	0.90	1.11	0.49	0.10	0.28	NS
pH (field)	7.35	**5.24**	**4.44**	7.59	7.36	**5.08**	**5.70**	7.29	**5.24**	7.52	7.56	(6.5 - 8.5)**
temperature (°C) (field)	23.47	26.63	23.41	23.60	23.97	26.55	26.18	23.20	25.41	24.46	26.71	NS
turbidity (NTU) (field)	0.6	4	4.7	0.7	18.1	2.5	3.6	0.6	28.1	0.5	1.6	NS
total dissolved solids (mg/l)	220	140	130	190	280	110	**1200**	340	170	220	230	500**
chloride (mg/l)	7.9 v	46	66 v	7.4 v	17 v	42 v	**570**	34	62	9.3	12	250**
ammonia nitrogen (mg/l as N)	0.35	1.5	1.7	0.45	0.28	1.1	0.75	0.41	1.9	0.19	0.21	2.8***

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	(MCL) STANDARD F.A.C. 62-550
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	**0.026**	BDL	BDL	BDL	BDL	0.01*
iron	BDL	**3.4**	0.24	BDL	**0.37**	**0.51**	**8.1**	0.18 i	**8.5**	BDL	BDL	0.3**
sodium	15	19	23	17	17	14	120	36	27	9	10	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
5.24 : 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

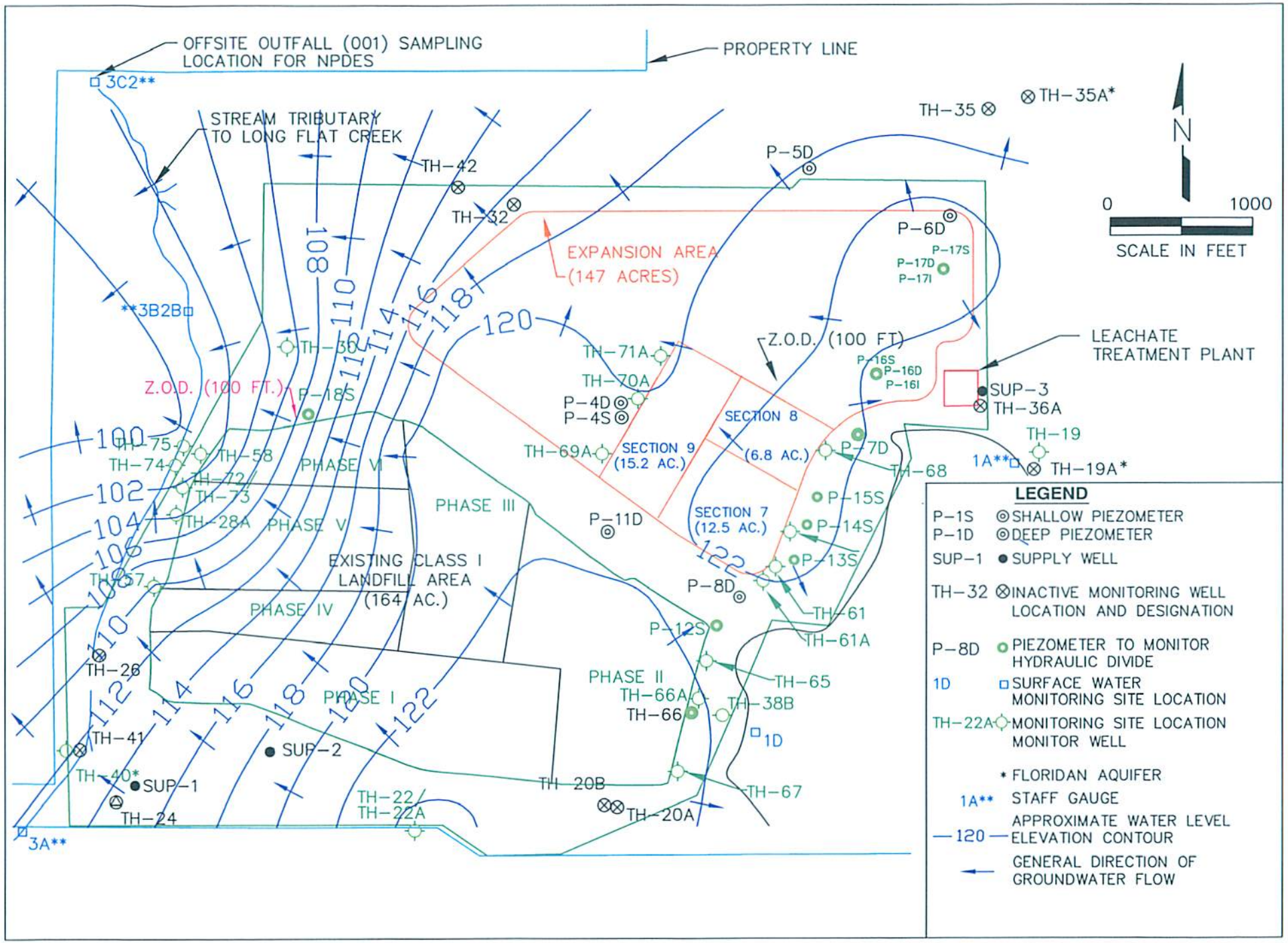
GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

September 7, 2011

Measuring Point I.D.	T.O.C. Elevations (NGVD)	9/7/2011 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	21.40	119.38	10:39 AM
P-4S	140.95	Dry	Dry	10:38 AM
P-5D	151.94	Dry	Dry	11:34 AM
P-6D-A	148.01	24.41	123.60	11:21 AM
P-7D	138.92	16.39	122.53	11:49 AM
P-8D	138.34	17.30	121.04	12:05 PM
P-11D	138.02	16.55	121.47	10:58 AM
P-12S	134.97	13.26	121.71	12:07 PM
P-13S	140.21	17.35	122.86	11:57 AM
P-14S	138.56	15.54	123.02	11:54 AM
P-15S	139.19	16.44	122.75	11:53 AM
P-16S	143.38	15.78	127.60	10:58 AM
P-16I	144.15	23.05	121.10	10:57 AM
P-16D	143.84	22.76	121.08	10:56 AM
P-17S	137.35	12.16	125.19	11:30 AM
P-17I	137.32	14.78	122.54	11:29 AM
P-17D	137.22	14.95	122.27	11:28 AM
P-18S	129.86	18.03	111.83	10:25 AM
P-19	133.36	10.02	123.34	11:24 AM
P-20	132.38	10.85	121.53	11:16 AM
P-21	122.79	1.59	121.20	10:48 AM
P-22	128.35	7.19	121.16	10:50 AM
P-23	143.13	22.06	121.07	10:44 AM
TH-19*	130.27	93.66	36.61	11:44 AM
TH-20A	131.86	8.97	122.89	12:19 PM
TH-20B	132.57	9.84	122.73	12:20 PM
TH-22	128.82	4.17	124.65	9:25 AM
TH-22A	129.27	4.80	124.47	9:24 AM
TH-24A	128.23	3.55	124.68	9:17 AM
TH-26	125.65	Dry	Dry	9:41 AM
TH-28A	131.10	27.66	103.44	9:46 AM
TH-30	128.88	23.80	105.08	9:55 AM
TH-32	129.90	13.44	116.46	10:19 AM
TH-35	145.98	27.50	118.48	11:38 AM
TH-36A	152.70	32.49	120.21	11:46 AM
TH-38A	130.68	9.86	120.82	12:11 PM
TH-38B	131.81	10.55	121.26	12:12 PM
TH-40*	124.99	90.15	34.84	9:33 AM
TH-41*	125.00	92.50	32.50	9:31 AM
TH-42*	116.74	72.14	44.60	10:16 AM
TH-57	128.36	18.60	109.76	9:44 AM
TH-58	127.88	27.42	100.46	9:53 AM
TH-61	138.73	16.30	122.43	11:58 AM
TH-61A	139.45	16.65	122.80	11:59 AM
TH-64	139.64	15.92	123.72	11:55 AM
TH-65	135.40	13.81	121.59	12:09 PM
TH-66	130.58	8.26	122.32	12:15 PM
TH-66A	130.66	8.70	121.96	12:14 PM
TH-67	129.51	4.95	124.56	12:16 PM
TH-68	140.01	15.40	124.61	11:51 AM
TH-69A	144.97	25.06	119.91	10:33 AM
TH-70A	146.63	26.41	120.22	10:35 AM
TH-71A	146.95	25.34	121.61	10:41 AM
TH-72	130.96	97.99	32.97	9:50 AM
TH-73	131.07	30.66	100.41	9:49 AM
SW-3A	3.0'=125.53'	0.52	123.04	9:15 AM
SW-3B2B	3.0'=97.97'	1.75	96.72	10:00 AM
SW-3C2	6.0'=92.33'	1.55	87.88	10:04 AM
Mine Cut #1	4.0'=122.14'	2.40	120.54	12:01 PM
Mine Cut #2	6.0'=123.47'	2.85	120.32	11:42 AM
Mine Cut #3	4.0'=112.27'	2.02	110.29	10:13 AM
Mine Cut #4	5.0'=97.54'	1.55	94.09	10:11 AM

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 – September 7, 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: 660-43398-1
Client Project/Site: Southeast 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:
09/28/2011 01:33:17 PM

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

Table of Contents

Definitions/Glossary

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

TestAmerica Job ID: 660-43398-1

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Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
L	Off-scale high. Actual value is known to be greater than the value given.
V	Indicates the analyte was detected in both the sample and the associated method blank.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 660-43398-1

Job ID: 660-43398-1

Laboratory: TestAmerica Tampa

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Narrative

Job Narrative
660-43398-1

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

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Iron associated with batch 114951 were outside control limits with the parent sample greater than 4 times the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry
Method 300.0: The method blank for batch 115153 had an estimated result at the MDL for chloride. The associated samples are flagged with V.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 114991 were outside control limits for chloride and reported over the calibration curve. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 115282 were outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 300.0: The matrix spike (MS) recovery for batch 115199 was outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-43398-1

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Client Sample ID: TH-58 WACS #1571 — Lab Sample ID: 660-43398-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.70				SU	1		Field Sampling	Total/NA
Field Temperature	26.18				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.90				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1239				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.6				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1		6010B	Total Recovera
Iron	8100		200	50	ug/L	1		6010B	Total Recovera
Sodium	120		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	570	J3	10	4.0	mg/L	20		300.0	Total/NA
Ammonia as N	0.75		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	1200		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-30 WACS #1065 — Lab Sample ID: 660-43398-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.44				SU	1		Field Sampling	Total/NA
Field Temperature	23.41				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.21				mg/L	1		Field Sampling	Total/NA
Specific Conductance	251				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.7				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	240		200	50	ug/L	1		6010B	Total Recovera
Sodium	23		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	66	V	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	130		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-42 WACS #823 — Lab Sample ID: 660-43398-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.36				SU	1		Field Sampling	Total/NA
Field Temperature	23.97				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Specific Conductance	499				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	370		200	50	ug/L	1		6010B	Total Recovera
Sodium	17		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	17	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.28		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	280		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS #822 — Lab Sample ID: 660-43398-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.59				SU	1		Field Sampling	Total/NA
Field Temperature	23.60				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.04				mg/L	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-43398-1

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Client Sample ID: TH-40 WACS #822 (Continued) — Lab Sample ID: 660-43398-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	370				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.7				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	17		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.4	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.45		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	190		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-57 WACS #1570 — Lab Sample ID: 660-43398-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.08				SU	1		Field Sampling	Total/NA
Field Temperature	26.55				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.27				mg/L	1		Field Sampling	Total/NA
Specific Conductance	183				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.5				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	510		200	50	ug/L	1		6010B	Total Recovera
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	42	V	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-19 WACS #821 — Lab Sample ID: 660-43398-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	23.47				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.80				mg/L	1		Field Sampling	Total/NA
Specific Conductance	397				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.6				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.9	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.35		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	220		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Duplicate — Lab Sample ID: 660-43398-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.9	V	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	220		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Blank, Equipment — Lab Sample ID: 660-43398-8

5

Client Sample ID: Blank, Equipment (Continued) — Lab Sample ID: 660-43398-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	0.15		0.020	0.010	mg/L	1		350.1	Total/NA

Client Sample ID: TH-28A WACS# 19862 — Lab Sample ID: 660-43427-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.24				SU	1		Field Sampling	Total/NA
Field Temperature	26.63				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.49				mg/L	1		Field Sampling	Total/NA
Specific Conductance	202				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.0				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3400		200	50	ug/L	1		6010B	Total Recovera
Sodium	19		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	46		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.5		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	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-72 WACS# 27753 — Lab Sample ID: 660-43427-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	23.20				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.11				mg/L	1		Field Sampling	Total/NA
Specific Conductance	536				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.6				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	180	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	36		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	34		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.41		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	340		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SUP 2 WACS# 27756 — Lab Sample ID: 660-43427-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.56				SU	1		Field Sampling	Total/NA
Field Temperature	26.71				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Specific Conductance	347				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.6				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	10		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	12		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

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-73 WACS# 27754 — Lab Sample ID: 660-43427-4

Client Sample ID: TH-73 WACS# 27754 (Continued)

Lab Sample ID: 660-43427-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.24				SU	1		Field Sampling	Total/NA
Field Temperature	25.41				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.49				mg/L	1		Field Sampling	Total/NA
Specific Conductance	259				umhos/cm	1		Field Sampling	Total/NA
Turbidity	28.1				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8500		200	50	ug/L	1		6010B	Total Recovera
Sodium	27		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	62		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.9		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	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-43427-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Temperature	24.46				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	323				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.5				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	9.0		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	9.3		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.19		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	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-58 WACS #1571
Date Collected: 09/08/11 11:33
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-1
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		10	4.0	ug/L		09/15/11 07:53	09/16/11 08:52	1
Iron	8100		200	50	ug/L		09/15/11 07:53	09/16/11 08:52	1
Sodium	120		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570	J3	10	4.0	mg/L			09/20/11 10:40	20
Ammonia as N	0.75		0.020	0.010	mg/L			09/19/11 15:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		50	50	mg/L			09/14/11 15:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.70				SU			09/08/11 11:33	1
Field Temperature	26.18				Degrees C			09/08/11 11:33	1
Oxygen, Dissolved	0.90				mg/L			09/08/11 11:33	1
Specific Conductance	1239				umhos/cm			09/08/11 11:33	1
Turbidity	3.6				NTU			09/08/11 11:33	1

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-30 WACS #1065
Date Collected: 09/08/11 11:16
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-2
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		09/15/11 07:53	09/16/11 09:04	1
Iron	240		200	50	ug/L		09/15/11 07:53	09/16/11 09:04	1
Sodium	23		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66	V	1.0	0.40	mg/L			09/16/11 20:11	2
Ammonia as N	1.7		0.020	0.010	mg/L			09/19/11 15:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/14/11 15:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.44				SU			09/08/11 11:16	1
Field Temperature	23.41				Degrees C			09/08/11 11:16	1
Oxygen, Dissolved	0.21				mg/L			09/08/11 11:16	1
Specific Conductance	251				umhos/cm			09/08/11 11:16	1
Turbidity	4.7				NTU			09/08/11 11:16	1

Client Sample Results

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-42 WACS #823
Date Collected: 09/08/11 10:34
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-3
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		09/15/11 07:53	09/16/11 09:07	1
Iron	370		200	50	ug/L		09/15/11 07:53	09/16/11 09:07	1
Sodium	17		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	V	0.50	0.20	mg/L			09/16/11 16:53	1
Ammonia as N	0.28		0.020	0.010	mg/L			09/19/11 15:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			09/14/11 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.36				SU			09/08/11 10:34	1
Field Temperature	23.97				Degrees C			09/08/11 10:34	1
Oxygen, Dissolved	0.22				mg/L			09/08/11 10:34	1
Specific Conductance	499				umhos/cm			09/08/11 10:34	1
Turbidity	18.1				NTU			09/08/11 10:34	1

Client Sample Results

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-40 WACS #822

Lab Sample ID: 660-43398-4

Date Collected: 09/08/11 09:10
Matrix: Water
Date Received: 09/08/11 13:38

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		09/15/11 07:53	09/16/11 09:11	1
Iron	50	U	200	50	ug/L		09/15/11 07:53	09/16/11 09:11	1
Sodium	**17**		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.4**	V	0.50	0.20	mg/L			09/16/11 17:09	1
Ammonia as N	**0.45**		0.020	0.010	mg/L			09/19/11 15:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**190**		10	10	mg/L			09/14/11 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.59**				SU			09/08/11 09:10	1
Field Temperature	**23.60**				Degrees C			09/08/11 09:10	1
Oxygen, Dissolved	**1.04**				mg/L			09/08/11 09:10	1
Specific Conductance	**370**				umhos/cm			09/08/11 09:10	1
Turbidity	**0.7**				NTU			09/08/11 09:10	1

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-57 WACS #1570
Date Collected: 09/08/11 11:52
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-5
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		09/15/11 07:53	09/16/11 09:21	1
Iron	510		200	50	ug/L		09/15/11 07:53	09/16/11 09:21	1
Sodium	14		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42	V	0.50	0.20	mg/L			09/16/11 17:26	1
Ammonia as N	1.1		0.020	0.010	mg/L			09/19/11 15:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			09/14/11 15:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.08				SU			09/08/11 11:52	1
Field Temperature	26.55				Degrees C			09/08/11 11:52	1
Oxygen, Dissolved	0.27				mg/L			09/08/11 11:52	1
Specific Conductance	183				umhos/cm			09/08/11 11:52	1
Turbidity	2.5				NTU			09/08/11 11:52	1

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-19 WACS #821
Date Collected: 09/08/11 09:46
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-6
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		09/15/11 07:53	09/16/11 09:24	1
Iron	50	U	200	50	ug/L		09/15/11 07:53	09/16/11 09:24	1
Sodium	15		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9	V	0.50	0.20	mg/L			09/16/11 17:42	1
Ammonia as N	0.35		0.020	0.010	mg/L			09/19/11 15:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			09/14/11 15:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.35				SU			09/08/11 09:46	1
Field Temperature	23.47				Degrees C			09/08/11 09:46	1
Oxygen, Dissolved	0.80				mg/L			09/08/11 09:46	1
Specific Conductance	397				umhos/cm			09/08/11 09:46	1
Turbidity	0.6				NTU			09/08/11 09:46	1

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: Duplicate
Date Collected: 09/08/11 00:00
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-7
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		09/15/11 07:53	09/16/11 09:28	1
Iron	50	U	200	50	ug/L		09/15/11 07:53	09/16/11 09:28	1
Sodium	15		0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9	V	0.50	0.20	mg/L			09/16/11 17:59	1
Ammonia as N	0.31		0.020	0.010	mg/L			09/19/11 15:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			09/14/11 15:44	1

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: Blank, Equipment
Date Collected: 09/08/11 08:50
Date Received: 09/08/11 13:38

Lab Sample ID: 660-43398-8
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		09/15/11 07:53	09/16/11 09:31	1
Iron	50	U	200	50	ug/L		09/15/11 07:53	09/16/11 09:31	1
Sodium	0.31	U	0.50	0.31	mg/L		09/15/11 07:53	09/16/11 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			09/19/11 11:38	1
Ammonia as N	0.15		0.020	0.010	mg/L			09/19/11 15:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			09/14/11 15:45	1

Client Sample Results

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-28A WACS# 19862
Date Collected: 09/09/11 10:14
Date Received: 09/09/11 12:55

Lab Sample ID: 660-43427-1
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		09/13/11 09:30	09/14/11 13:19	1
Iron	3400		200	50	ug/L		09/13/11 09:30	09/14/11 13:19	1
Sodium	19		0.50	0.31	mg/L		09/13/11 09:30	09/14/11 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		0.50	0.20	mg/L			09/14/11 17:56	1
Ammonia as N	1.6		0.020	0.010	mg/L			09/19/11 15:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	5.0	mg/L			09/15/11 16:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.24				SU			09/09/11 10:14	1
Field Temperature	26.63				Degrees C			09/09/11 10:14	1
Oxygen, Dissolved	0.49				mg/L			09/09/11 10:14	1
Specific Conductance	202				umhos/cm			09/09/11 10:14	1
Turbidity	4.0				NTU			09/09/11 10:14	1

Client Sample ID: TH-72 WACS# 27753
Date Collected: 09/09/11 09:51
Date Received: 09/09/11 12:55

Lab Sample ID: 660-43427-2
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		09/13/11 09:30	09/14/11 13:22	1
Iron	180	I	200	50	ug/L		09/13/11 09:30	09/14/11 13:22	1
Sodium	36		0.50	0.31	mg/L		09/13/11 09:30	09/14/11 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		0.50	0.20	mg/L			09/14/11 18:12	1
Ammonia as N	0.41		0.020	0.010	mg/L			09/19/11 15:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			09/15/11 16:12	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.29				SU			09/09/11 09:51	1
Field Temperature	23.20				Degrees C			09/09/11 09:51	1
Oxygen, Dissolved	1.11				mg/L			09/09/11 09:51	1
Specific Conductance	536				umhos/cm			09/09/11 09:51	1
Turbidity	0.6				NTU			09/09/11 09:51	1

Client Sample Results

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: SUP 2 WACS# 27756
Date Collected: 09/09/11 10:46
Date Received: 09/09/11 12:55

Lab Sample ID: 660-43427-3
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		09/13/11 09:30	09/14/11 13:26	1
Iron	50	U	200	50	ug/L		09/13/11 09:30	09/14/11 13:26	1
Sodium	10		0.50	0.31	mg/L		09/13/11 09:30	09/14/11 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		0.50	0.20	mg/L			09/14/11 18:29	1
Ammonia as N	0.21		0.020	0.010	mg/L			09/19/11 16:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		5.0	5.0	mg/L			09/15/11 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.56				SU			09/09/11 10:46	1
Field Temperature	26.71				Degrees C			09/09/11 10:46	1
Oxygen, Dissolved	0.28				mg/L			09/09/11 10:46	1
Specific Conductance	347				umhos/cm			09/09/11 10:46	1
Turbidity	1.6				NTU			09/09/11 10:46	1

Client Sample Results

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-73 WACS# 27754
Date Collected: 09/09/11 09:32
Date Received: 09/09/11 12:55

Lab Sample ID: 660-43427-4
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		09/13/11 09:30	09/14/11 13:36	1
Iron	8500		200	50	ug/L		09/13/11 09:30	09/14/11 13:36	1
Sodium	27		0.50	0.31	mg/L		09/13/11 09:30	09/14/11 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		1.0	0.40	mg/L			09/15/11 10:44	2
Ammonia as N	1.9		0.020	0.010	mg/L			09/19/11 16:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		5.0	5.0	mg/L			09/15/11 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.24				SU			09/09/11 09:32	1
Field Temperature	25.41				Degrees C			09/09/11 09:32	1
Oxygen, Dissolved	0.49				mg/L			09/09/11 09:32	1
Specific Conductance	259				umhos/cm			09/09/11 09:32	1
Turbidity	28.1				NTU			09/09/11 09:32	1

Client Sample Results

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: SUP 1 WACS# 27755
Date Collected: 09/09/11 11:14
Date Received: 09/09/11 12:55

Lab Sample ID: 660-43427-5
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		09/13/11 09:30	09/14/11 13:39	1
Iron	50	U	200	50	ug/L		09/13/11 09:30	09/14/11 13:39	1
Sodium	9.0		0.50	0.31	mg/L		09/13/11 09:30	09/14/11 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		0.50	0.20	mg/L			09/14/11 19:02	1
Ammonia as N	0.19		0.020	0.010	mg/L			09/19/11 16:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	5.0	mg/L			09/15/11 16:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.52				SU			09/09/11 11:14	1
Field Temperature	24.46				Degrees C			09/09/11 11:14	1
Oxygen, Dissolved	0.10				mg/L			09/09/11 11:14	1
Specific Conductance	323				umhos/cm			09/09/11 11:14	1
Turbidity	0.5				NTU			09/09/11 11:14	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-114889/1-A
Matrix: Water
Analysis Batch: 114951

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 114889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		09/13/11 09:30	09/14/11 12:16	1
Iron	50	U	200	50	ug/L		09/13/11 09:30	09/14/11 12:16	1
Sodium	0.31	U	0.50	0.31	mg/L		09/13/11 09:30	09/14/11 12:16	1

Lab Sample ID: LCS 660-114889/2-A
Matrix: Water
Analysis Batch: 114951

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 114889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1040		ug/L		104	75 - 125
Iron	1000	1100		ug/L		110	75 - 125
Sodium	10.0	10.8		mg/L		108	75 - 125

Lab Sample ID: 660-43448-A-11-B MS
Matrix: Water
Analysis Batch: 114951

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 114889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	48		1000	1090		ug/L		104	75 - 125
Iron	15000	J3	1000	18200	J3	ug/L		315	75 - 125
Sodium	23		10.0	33.3		mg/L		108	75 - 125

Lab Sample ID: 660-43448-A-11-C MSD
Matrix: Water
Analysis Batch: 114951

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 114889

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	48		1000	1090		ug/L		104	75 - 125	0	20
Iron	15000	J3	1000	17900	J3	ug/L		280	75 - 125	2	20
Sodium	23		10.0	33.2		mg/L		106	75 - 125	0	20

Lab Sample ID: MB 660-114989/1-A
Matrix: Water
Analysis Batch: 115066

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 114989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		09/15/11 07:53	09/16/11 08:42	1
Iron	50	U	200	50	ug/L		09/15/11 07:53	09/16/11 08:42	1
Sodium	0.31	U	0.50	0.31	mg/L		09/15/11 07:53	09/16/11 08:42	1

Lab Sample ID: LCS 660-114989/2-A
Matrix: Water
Analysis Batch: 115066

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 114989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1060		ug/L		106	75 - 125
Iron	1000	1090		ug/L		109	75 - 125
Sodium	10.0	10.7		mg/L		107	75 - 125

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

Lab Sample ID: 660-43398-1 MS
Matrix: Water
Analysis Batch: 115066

Client Sample ID: TH-58 WACS #1571
Prep Type: Total Recoverable
Prep Batch: 114989

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	26		1000	1120		ug/L		109	75 - 125
Iron	8100		1000	9210		ug/L		115	75 - 125
Sodium	120		10.0	136		mg/L		116	75 - 125

Lab Sample ID: 660-43398-1 MSD
Matrix: Water
Analysis Batch: 115066

Client Sample ID: TH-58 WACS #1571
Prep Type: Total Recoverable
Prep Batch: 114989

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	26		1000	1110		ug/L		109	75 - 125	1	20
Iron	8100		1000	9170		ug/L		111	75 - 125	0	20
Sodium	120		10.0	135		mg/L		103	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-114991/3
Matrix: Water
Analysis Batch: 114991

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			09/14/11 11:38	1

Lab Sample ID: LCS 660-114991/4
Matrix: Water
Analysis Batch: 114991

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	9.69		mg/L		97	90 - 110

Lab Sample ID: 660-43394-A-2 MS
Matrix: Water
Analysis Batch: 114991

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	67		10.0	72.5	L J3	mg/L		51	90 - 110

Lab Sample ID: 660-43394-A-2 MSD
Matrix: Water
Analysis Batch: 114991

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	67		10.0	72.6	L J3	mg/L		53	90 - 110	0	30

Lab Sample ID: MB 660-115064/3
Matrix: Water
Analysis Batch: 115064

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			09/15/11 09:21	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-115064/4
Matrix: Water
Analysis Batch: 115064

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	9.77		mg/L		98	90 - 110

Lab Sample ID: 660-43394-A-5 MS ^10
Matrix: Water
Analysis Batch: 115064

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	68		100	178		mg/L		109	90 - 110

Lab Sample ID: 660-43394-A-5 MSD ^10
Matrix: Water
Analysis Batch: 115064

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	68		100	177		mg/L		109	90 - 110	0	30

Lab Sample ID: MB 660-115153/3
Matrix: Water
Analysis Batch: 115153

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.272	I	0.50	0.20	mg/L			09/16/11 11:34	1

Lab Sample ID: LCS 660-115153/4
Matrix: Water
Analysis Batch: 115153

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	9.77		mg/L		98	90 - 110

Lab Sample ID: 660-43398-4 MS
Matrix: Water
Analysis Batch: 115153

Client Sample ID: TH-40 WACS #822
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	7.4	V	10.0	17.7		mg/L		103	90 - 110

Lab Sample ID: 660-43398-4 MSD
Matrix: Water
Analysis Batch: 115153

Client Sample ID: TH-40 WACS #822
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	7.4	V	10.0	17.9		mg/L		105	90 - 110	1	30

Lab Sample ID: MB 660-115199/3
Matrix: Water
Analysis Batch: 115199

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			09/19/11 10:48	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-115199/4
Matrix: Water
Analysis Batch: 115199

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	10.0		mg/L		100	90 - 110

Lab Sample ID: 660-43408-F-2 MS ^10
Matrix: Water
Analysis Batch: 115199

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	45	J3	100	156	J3	mg/L		111	90 - 110

Lab Sample ID: 660-43408-F-2 MSD ^10
Matrix: Water
Analysis Batch: 115199

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	45	J3	100	138		mg/L		93	90 - 110	12	30

Lab Sample ID: MB 660-115282/3
Matrix: Water
Analysis Batch: 115282

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			09/20/11 10:07	1

Lab Sample ID: LCS 660-115282/4
Matrix: Water
Analysis Batch: 115282

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	10.6		mg/L		106	90 - 110

Lab Sample ID: 660-43398-1 MS
Matrix: Water
Analysis Batch: 115282

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	570	J3	200	722	J3	mg/L		77	90 - 110

Lab Sample ID: 660-43398-1 MSD
Matrix: Water
Analysis Batch: 115282

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	570	J3	200	715	J3	mg/L		73	90 - 110	1	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-115203/11
Matrix: Water
Analysis Batch: 115203

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			09/19/11 15:43	1

Lab Sample ID: LCS 660-115203/12
Matrix: Water
Analysis Batch: 115203

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	0.518		mg/L		104	90 - 110

Lab Sample ID: 660-43398-1 MS
Matrix: Water
Analysis Batch: 115203

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
Ammonia as N	0.75		1.00	1.67		mg/L		92	90 - 110

Lab Sample ID: 660-43398-1 MSD
Matrix: Water
Analysis Batch: 115203

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
Ammonia as N	0.75		1.00	1.68		mg/L		93	90 - 110	1	30

Lab Sample ID: 660-43427-3 MS
Matrix: Water
Analysis Batch: 115203

Client Sample ID: SUP 2 WACS# 27756
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.21		1.00	1.14		mg/L		93	90 - 110

Lab Sample ID: 660-43427-3 MSD
Matrix: Water
Analysis Batch: 115203

Client Sample ID: SUP 2 WACS# 27756
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	0.21		1.00	1.14		mg/L		93	90 - 110	0	30

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

Lab Sample ID: MB 660-114975/1
Matrix: Water
Analysis Batch: 114975

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			09/14/11 15:38	1

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

Lab Sample ID: LCS 660-114975/2
Matrix: Water
Analysis Batch: 114975

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	9990		mg/L		100	80 - 120

Lab Sample ID: 660-43394-A-5 DU
Matrix: Water
Analysis Batch: 114975

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	430		413		mg/L		3	20

Lab Sample ID: MB 660-115034/1
Matrix: Water
Analysis Batch: 115034

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			09/15/11 16:10	1

Lab Sample ID: LCS 660-115034/2
Matrix: Water
Analysis Batch: 115034

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	9970		mg/L		100	80 - 120

Lab Sample ID: 660-43427-1 DU
Matrix: Water
Analysis Batch: 115034

Client Sample ID: TH-28A WACS# 19862
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	140		138		mg/L		0	20

Metals

Prep Batch: 114889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43427-1	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
660-43427-2	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43427-3	SUP 2 WACS# 27756	Total Recoverable	Water	3005A	
660-43427-4	TH-73 WACS# 27754	Total Recoverable	Water	3005A	
660-43427-5	SUP 1 WACS# 27755	Total Recoverable	Water	3005A	
660-43448-A-11-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-43448-A-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 660-114889/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-114889/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 114951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43427-1	TH-28A WACS# 19862	Total Recoverable	Water	6010B	114889
660-43427-2	TH-72 WACS# 27753	Total Recoverable	Water	6010B	114889
660-43427-3	SUP 2 WACS# 27756	Total Recoverable	Water	6010B	114889
660-43427-4	TH-73 WACS# 27754	Total Recoverable	Water	6010B	114889
660-43427-5	SUP 1 WACS# 27755	Total Recoverable	Water	6010B	114889
660-43448-A-11-B MS	Matrix Spike	Total Recoverable	Water	6010B	114889
660-43448-A-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	114889
LCS 660-114889/2-A	Lab Control Sample	Total Recoverable	Water	6010B	114889
MB 660-114889/1-A	Method Blank	Total Recoverable	Water	6010B	114889

Prep Batch: 114989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-1	TH-58 WACS #1571	Total Recoverable	Water	3005A	
660-43398-1 MS	TH-58 WACS #1571	Total Recoverable	Water	3005A	
660-43398-1 MSD	TH-58 WACS #1571	Total Recoverable	Water	3005A	
660-43398-2	TH-30 WACS #1065	Total Recoverable	Water	3005A	
660-43398-3	TH-42 WACS #823	Total Recoverable	Water	3005A	
660-43398-4	TH-40 WACS #822	Total Recoverable	Water	3005A	
660-43398-5	TH-57 WACS #1570	Total Recoverable	Water	3005A	
660-43398-6	TH-19 WACS #821	Total Recoverable	Water	3005A	
660-43398-7	Duplicate	Total Recoverable	Water	3005A	
660-43398-8	Blank, Equipment	Total Recoverable	Water	3005A	
LCS 660-114989/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-114989/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 115066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-1	TH-58 WACS #1571	Total Recoverable	Water	6010B	114989
660-43398-1 MS	TH-58 WACS #1571	Total Recoverable	Water	6010B	114989
660-43398-1 MSD	TH-58 WACS #1571	Total Recoverable	Water	6010B	114989
660-43398-2	TH-30 WACS #1065	Total Recoverable	Water	6010B	114989
660-43398-3	TH-42 WACS #823	Total Recoverable	Water	6010B	114989
660-43398-4	TH-40 WACS #822	Total Recoverable	Water	6010B	114989
660-43398-5	TH-57 WACS #1570	Total Recoverable	Water	6010B	114989
660-43398-6	TH-19 WACS #821	Total Recoverable	Water	6010B	114989
660-43398-7	Duplicate	Total Recoverable	Water	6010B	114989
660-43398-8	Blank, Equipment	Total Recoverable	Water	6010B	114989
LCS 660-114989/2-A	Lab Control Sample	Total Recoverable	Water	6010B	114989
MB 660-114989/1-A	Method Blank	Total Recoverable	Water	6010B	114989

General Chemistry

Analysis Batch: 114975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43394-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	
660-43398-1	TH-58 WACS #1571	Total/NA	Water	SM 2540C	
660-43398-2	TH-30 WACS #1065	Total/NA	Water	SM 2540C	
660-43398-3	TH-42 WACS #823	Total/NA	Water	SM 2540C	
660-43398-4	TH-40 WACS #822	Total/NA	Water	SM 2540C	
660-43398-5	TH-57 WACS #1570	Total/NA	Water	SM 2540C	
660-43398-6	TH-19 WACS #821	Total/NA	Water	SM 2540C	
660-43398-7	Duplicate	Total/NA	Water	SM 2540C	
660-43398-8	Blank, Equipment	Total/NA	Water	SM 2540C	
LCS 660-114975/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-114975/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 114991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43394-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
660-43394-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-43427-1	TH-28A WACS# 19862	Total/NA	Water	300.0	
660-43427-2	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-43427-3	SUP 2 WACS# 27756	Total/NA	Water	300.0	
660-43427-5	SUP 1 WACS# 27755	Total/NA	Water	300.0	
LCS 660-114991/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-114991/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 115034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43427-1	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-43427-1 DU	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-43427-2	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	
660-43427-3	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	
660-43427-4	TH-73 WACS# 27754	Total/NA	Water	SM 2540C	
660-43427-5	SUP 1 WACS# 27755	Total/NA	Water	SM 2540C	
LCS 660-115034/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-115034/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 115064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43394-A-5 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-43394-A-5 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-43427-4	TH-73 WACS# 27754	Total/NA	Water	300.0	
LCS 660-115064/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-115064/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 115153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-2	TH-30 WACS #1065	Total/NA	Water	300.0	
660-43398-3	TH-42 WACS #823	Total/NA	Water	300.0	
660-43398-4	TH-40 WACS #822	Total/NA	Water	300.0	
660-43398-4 MS	TH-40 WACS #822	Total/NA	Water	300.0	
660-43398-4 MSD	TH-40 WACS #822	Total/NA	Water	300.0	
660-43398-5	TH-57 WACS #1570	Total/NA	Water	300.0	
660-43398-6	TH-19 WACS #821	Total/NA	Water	300.0	
660-43398-7	Duplicate	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 115153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-115153/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-115153/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 115199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-8	Blank, Equipment	Total/NA	Water	300.0	
660-43408-F-2 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-43408-F-2 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-115199/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-115199/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 115203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-1	TH-58 WACS #1571	Total/NA	Water	350.1	
660-43398-1 MS	TH-58 WACS #1571	Total/NA	Water	350.1	
660-43398-1 MSD	TH-58 WACS #1571	Total/NA	Water	350.1	
660-43398-2	TH-30 WACS #1065	Total/NA	Water	350.1	
660-43398-3	TH-42 WACS #823	Total/NA	Water	350.1	
660-43398-4	TH-40 WACS #822	Total/NA	Water	350.1	
660-43398-5	TH-57 WACS #1570	Total/NA	Water	350.1	
660-43398-6	TH-19 WACS #821	Total/NA	Water	350.1	
660-43398-7	Duplicate	Total/NA	Water	350.1	
660-43398-8	Blank, Equipment	Total/NA	Water	350.1	
660-43427-1	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-43427-2	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-43427-3	SUP 2 WACS# 27756	Total/NA	Water	350.1	
660-43427-3 MS	SUP 2 WACS# 27756	Total/NA	Water	350.1	
660-43427-3 MSD	SUP 2 WACS# 27756	Total/NA	Water	350.1	
660-43427-4	TH-73 WACS# 27754	Total/NA	Water	350.1	
660-43427-5	SUP 1 WACS# 27755	Total/NA	Water	350.1	
LCS 660-115203/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-115203/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 115282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-1	TH-58 WACS #1571	Total/NA	Water	300.0	
660-43398-1 MS	TH-58 WACS #1571	Total/NA	Water	300.0	
660-43398-1 MSD	TH-58 WACS #1571	Total/NA	Water	300.0	
LCS 660-115282/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-115282/3	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 114957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43398-1	TH-58 WACS #1571	Total/NA	Water	Field Sampling	
660-43398-2	TH-30 WACS #1065	Total/NA	Water	Field Sampling	
660-43398-3	TH-42 WACS #823	Total/NA	Water	Field Sampling	
660-43398-4	TH-40 WACS #822	Total/NA	Water	Field Sampling	
660-43398-5	TH-57 WACS #1570	Total/NA	Water	Field Sampling	
660-43398-6	TH-19 WACS #821	Total/NA	Water	Field Sampling	
660-43427-1	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 114957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43427-2	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-43427-3	SUP 2 WACS# 27756	Total/NA	Water	Field Sampling	
660-43427-4	TH-73 WACS# 27754	Total/NA	Water	Field Sampling	
660-43427-5	SUP 1 WACS# 27755	Total/NA	Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-58 WACS #1571

Lab Sample ID: 660-43398-1
Matrix: Water
Date Collected: 09/08/11 11:33
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 08:52	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:41	TO	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:46	TO	TAL TAM
Total/NA	Analysis	300.0		20	115282	09/20/11 10:40	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/08/11 11:33		TAL TAM

9

Client Sample ID: TH-30 WACS #1065

Lab Sample ID: 660-43398-2
Matrix: Water
Date Collected: 09/08/11 11:16
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:04	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:41	TO	TAL TAM
Total/NA	Analysis	300.0		2	115153	09/16/11 20:11	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:50	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/08/11 11:16		TAL TAM

Client Sample ID: TH-42 WACS #823

Lab Sample ID: 660-43398-3
Matrix: Water
Date Collected: 09/08/11 10:34
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:07	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:42	TO	TAL TAM
Total/NA	Analysis	300.0		1	115153	09/16/11 16:53	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:51	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/08/11 10:34		TAL TAM

Client Sample ID: TH-40 WACS #822

Lab Sample ID: 660-43398-4
Matrix: Water
Date Collected: 09/08/11 09:10
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:11	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:42	TO	TAL TAM
Total/NA	Analysis	300.0		1	115153	09/16/11 17:09	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:52	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/08/11 09:10		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-57 WACS #1570

Lab Sample ID: 660-43398-5

Date Collected: 09/08/11 11:52
Matrix: Water
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:21	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:43	TO	TAL TAM
Total/NA	Analysis	300.0		1	115153	09/16/11 17:26	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:53	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/08/11 11:52		TAL TAM

9

Client Sample ID: TH-19 WACS #821

Lab Sample ID: 660-43398-6

Date Collected: 09/08/11 09:46
Matrix: Water
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:24	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:43	TO	TAL TAM
Total/NA	Analysis	300.0		1	115153	09/16/11 17:42	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:54	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/08/11 09:46		TAL TAM

Client Sample ID: Duplicate

Lab Sample ID: 660-43398-7

Date Collected: 09/08/11 00:00
Matrix: Water
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:28	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:44	TO	TAL TAM
Total/NA	Analysis	300.0		1	115153	09/16/11 17:59	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:56	TO	TAL TAM

Client Sample ID: Blank, Equipment

Lab Sample ID: 660-43398-8

Date Collected: 09/08/11 08:50
Matrix: Water
Date Received: 09/08/11 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114989	09/15/11 07:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	115066	09/16/11 09:31	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	114975	09/14/11 15:45	TO	TAL TAM
Total/NA	Analysis	300.0		1	115199	09/19/11 11:38	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:57	TO	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-43427-1

Date Collected: 09/09/11 10:14
Matrix: Water
Date Received: 09/09/11 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114889	09/13/11 09:30	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	114951	09/14/11 13:19	KW	TAL TAM
Total/NA	Analysis	300.0		1	114991	09/14/11 17:56	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	115034	09/15/11 16:11	TO	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:58	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/09/11 10:14		TAL TAM

9

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-43427-2

Date Collected: 09/09/11 09:51
Matrix: Water
Date Received: 09/09/11 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114889	09/13/11 09:30	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	114951	09/14/11 13:22	KW	TAL TAM
Total/NA	Analysis	300.0		1	114991	09/14/11 18:12	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	115034	09/15/11 16:12	TO	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 15:59	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/09/11 09:51		TAL TAM

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-43427-3

Date Collected: 09/09/11 10:46
Matrix: Water
Date Received: 09/09/11 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114889	09/13/11 09:30	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	114951	09/14/11 13:26	KW	TAL TAM
Total/NA	Analysis	300.0		1	114991	09/14/11 18:29	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	115034	09/15/11 16:13	TO	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 16:03	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/09/11 10:46		TAL TAM

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-43427-4

Date Collected: 09/09/11 09:32
Matrix: Water
Date Received: 09/09/11 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114889	09/13/11 09:30	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	114951	09/14/11 13:36	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	115034	09/15/11 16:13	TO	TAL TAM
Total/NA	Analysis	300.0		2	115064	09/15/11 10:44	TS	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 16:07	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/09/11 09:32		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-43398-1

Client Sample ID: SUP 1 WACS# 27755
Date Collected: 09/09/11 11:14
Date Received: 09/09/11 12:55

Lab Sample ID: 660-43427-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			114889	09/13/11 09:30	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	114951	09/14/11 13:39	KW	TAL TAM
Total/NA	Analysis	300.0		1	114991	09/14/11 19:02	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	115034	09/15/11 16:14	TO	TAL TAM
Total/NA	Analysis	350.1		1	115203	09/19/11 16:08	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	114957	09/09/11 11:14		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 Monitoring Wells

TestAmerica Job ID: 660-43398-1

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 Monitoring Wells

TestAmerica Job ID: 660-43398-1

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 Monitoring Wells

TestAmerica Job ID: 660-43398-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-43398-1	TH-58 WACS #1571	Water	09/08/11 11:33	09/08/11 13:38
660-43398-2	TH-30 WACS #1065	Water	09/08/11 11:16	09/08/11 13:38
660-43398-3	TH-42 WACS #823	Water	09/08/11 10:34	09/08/11 13:38
660-43398-4	TH-40 WACS #822	Water	09/08/11 09:10	09/08/11 13:38
660-43398-5	TH-57 WACS #1570	Water	09/08/11 11:52	09/08/11 13:38
660-43398-6	TH-19 WACS #821	Water	09/08/11 09:46	09/08/11 13:38
660-43398-7	Duplicate	Water	09/08/11 00:00	09/08/11 13:38
660-43398-8	Blank, Equipment	Water	09/08/11 08:50	09/08/11 13:38
660-43427-1	TH-28A WACS# 19862	Water	09/09/11 10:14	09/09/11 12:55
660-43427-2	TH-72 WACS# 27753	Water	09/09/11 09:51	09/09/11 12:55
660-43427-3	SUP 2 WACS# 27756	Water	09/09/11 10:46	09/09/11 12:55
660-43427-4	TH-73 WACS# 27754	Water	09/09/11 09:32	09/09/11 12:55
660-43427-5	SUP 1 WACS# 27755	Water	09/09/11 11:14	09/09/11 12:55

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660-43427

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

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J.Clayton ☐

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 34.30 Ft.
DEPTH TO WATER: 27.79 Ft.
LENGTH OF WATER COL: 6.51 Ft.
VOLUME TO PURGE: 1.04 Gal.

	DATE	TIME
PURGE STARTED:	9-9-11	10:05
PURGE RATE:	0.20	GPM.
PURGE ENDED:	9-9-11	10:14
ACT. VOL. PURGED:	1.80	GAL.
Draw Down:	27.90	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:10	24.54	204	5.27	0.49	8.8
AB JC	10:12	24.58	203	5.22	0.49	6.3
AB JC	10:14	24.43	202	5.24	0.49	4.0

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
9-9-11 | 10:14

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: J. Clayton REP. OF SOLID WASTE DEPT. 9-9-11 | 12:55
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-9-11 | 12:55

COMMENT`S: 4.7° c CHOT

WOR 0049

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Ace REP. OF SOLID WASTE DEPT. 9-2-11 | 1:05

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J.Clay ☐

WELL DIAMETER: 2 INCH:
TOTAL DEPTH OF WELL: 190.00 Ft.
DEPTH TO WATER: 97.81 Ft.
LENGTH OF WATER COL: 92.19 Ft.
VOLUME TO PURGE: 14.75 Gal.

	DATE	TIME
PURGE STARTED:	9-9-11	9:21
PURGE RATE:	0.55 GPM.	
	DATE	TIME
PURGE ENDED:	9-9-11	9:51
ACT. VOL. PURGED:	16.5 GAL.	
Draw Down:	97.85	

FIELD PARAMETERS: MW 9-12-11

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	947	23.22	535	7.28	1.12	0.8
AB JC	949	23.23	537	7.30	1.10	0.6
AB JC	951	23.20	536	7.29	1.11	0.6

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
9-9-11 | 9:51

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: J. Clay REP. OF SOLID WASTE DEPT. 9-9-11 | 12:55
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-9-11 | 12:55

COMMENT`S: _____

WO# 0049

13

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. 9-2-11 10:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J. Clark ☐

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 9-9-11 TIME 10:27
ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:42	24.49	348	7.54	0.30	1.2 =
AB JC	10:44	24.71	349	7.55	0.36	1.3
AB JC	10:46	24.71	347	7.56	0.28	1.6

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
1	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
9-9-11 | 10:46

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 9-9-11 | 12:55
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 9-9-11 | 12:55

COMMENT`S:
WO# 0049

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: A Ba REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J. Clayton ☐

WELL DIAMETER: 2 INCH:

			DATE	TIME
TOTAL DEPTH OF WELL:	43.40 Ft.	PURGE STARTED:	9-9-11	9:12
DEPTH TO WATER:	30.65 Ft.	PURGE RATE:	0.50	GPM.
LENGTH OF WATER COL:	12.75 Ft.		DATE	TIME
VOLUME TO PURGE:	2.04 Gal.	PURGE ENDED:	9-9-11	9:32
		ACT. VOL. PURGED:	10	GAL.
		Draw Down:	33.00	9:32

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:28	25.39	257	5.24	0.50	26.1 =
AB JC	9:30	25.40	258	5.23	0.48	27.9
AB JC	9:32	25.41	259	5.24	0.49	28.1

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
9-9-11 | 9:32

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 9-9-11 | 12:55
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-9-11 | 12:55

COMMENT`S: _____

WO # 00409

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J.Clayton ☐

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 9-9-11 TIME 10:55
ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:10	24.44	323	7.40	0.15	0.3 =
AB JC	11:12	24.44	323	7.49	0.11	0.5
AB JC	11:14	24.44	323	7.52	0.10	0.5

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
9-9-11 | 11:14

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jc Clayton REP. OF SOLID WASTE DEPT. 9-9-11 | 12:55
ACCEPTED BY: Carol McCarthy REP. OF CONTRACT LAB. 9-9-11 | 12:55

COMMENT`S:
WO# 0049

660-43318

~~HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET~~

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J.Clayton ☐

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 32.92 Ft.
DEPTH TO WATER: 27.44 Ft.
LENGTH OF WATER COL: 5.46 Ft.
VOLUME TO PURGE: 0.87 Gal.

	DATE	TIME
PURGE STARTED:	9-8-11	11:25
PURGE RATE:	0.20	GPM.
	DATE	TIME
PURGE ENDED:	9-8-11	11:33
ACT. VOL. PURGED:	1.6	GAL.
Draw Down:	28.00	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:29	24.17	1234	5.74	0.90	5.9
AB JC	11:31	24.19	1240	5.72	0.89	4.1
AB JC	11:33	24.18	1239	5.70	0.90	3.6

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**
9-8-11	11:33

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: J. Clayton REP. OF SOLID WASTE DEPT. 9-8-11 | 1:38
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: 2.2 CCV-07

WO # 0049

13

660-43398

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-2-11 | 1:05

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ **A.Balloon** ☑ J. clayton ☐

WELL DIAMETER: 2.00 INCH:
TOTAL DEPTH OF WELL: 46.19 Ft.
DEPTH TO WATER: 23.79 Ft.
LENGTH OF WATER COL: 22.40 Ft.
VOLUME TO PURGE: 3.58 Gal.

	DATE	TIME
PURGE STARTED:	9-8-11	11:01
PURGE RATE:	0.30 GPM.	
PURGE ENDED:	9-8-11	11:16
ACT. VOL. PURGED:	4.5 GAL.	
Draw Down:	24.01	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:12	23.41	249	4.39	0.33	4.2 =
AB JC	11:14	23.41	250	4.42	0.27	4.7
AB JC	11:16	23.41	251	4.44	0.21	4.7

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
9-8-11 | 11:16

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: J. Clayton REP. OF SOLID WASTE DEPT. 9-8-11 | 1:38
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: H_2S odor 2.2 C CV 07
WO # 0049

WED-43398

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J. Clayton ☐

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 164 Ft.
DEPTH TO WATER: 72.03 Ft.
LENGTH OF WATER COL: 91.97 Ft.
VOLUME TO PURGE: 14.71 Gal.

	DATE | TIME
PURGE STARTED:	9-8-11 | 10:05
PURGE RATE:	0.60 GPM.
	DATE | TIME
PURGE ENDED:	9-8-11 | 10:34
ACT. VOL. PURGED:	17.4 GAL.
Draw Down:	89.50

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:30	23.97	499	7.38	0.20	20.8
AB JC	10:32	23.97	499	7.35	0.21	20.2
AB JC	10:34	23.97	499	7.34	0.22	18.1

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
9-8-11 | 10:34

ANALYSIS REQUESTED:

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

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: J. Clayton REP. OF SOLID WASTE DEPT. 9-8-11 | 1:38
ACCEPTED BY: Carl McNulty REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: 2.2c CV-07
WOH 00 49

660-43398

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ **A.Balloon** ☑ J.Clayton ☐

WELL DIAMETER: 2.0 INCH:

			DATE	TIME
TOTAL DEPTH OF WELL:	165.90 Ft.	PURGE STARTED:	9-8-11	8:54
DEPTH TO WATER:	90.05 Ft.	PURGE RATE:	1.00	GPM.
LENGTH OF WATER COL:	75.85 Ft.		DATE	TIME
VOLUME TO PURGE:	12.14 Gal.	PURGE ENDED:	9-8-11	9:10
		ACT. VOL. PURGED:	16	GAL.
		Draw Down:	90.05	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:06	23.64	372	7.59	1.06	0.8 =
AB JC	9:08	23.64	370	7.60	1.08	0.7
AB JC	9:10	23.60	370	7.59	1.04	0.7

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
9-8-11 | 9:10

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: J. Clayton REP. OF SOLID WASTE DEPT. 9-8-11 | 1:38
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: 2.2c CV-07

WO# 0049

660-43398

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J.Clyatt ☐ _____

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 26.83 Ft.
DEPTH TO WATER: 18.59 Ft.
LENGTH OF WATER COL: 8.24 Ft.
VOLUME TO PURGE: 1.32 Gal.

	DATE	TIME
PURGE STARTED:	9-8-11	11:43
PURGE RATE:	0.25 GPM.	
PURGE ENDED:	9-8-11	11:52
ACT. VOL. PURGED:	2.25 GAL.	
Draw Down:	19.30	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:48	24.58	169	5.05	0.37	4.4 =
AB JC	11:50	24.55	174	5.04	0.29	4.0
AB JC	11:52	24.55	183	5.08	0.27	2.5

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
9-8-11 | 11:52

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: J. Clyatt REP. OF SOLID WASTE DEPT. 9-9-11 | 1:38
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: 2.2 c COC

WO# 0049

13

L60-43348

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ J.Clayton ☐

WELL DIAMETER: 2.0 INCH:

			DATE	TIME
TOTAL DEPTH OF WELL:	153.60 Ft.	PURGE STARTED:	9-8-11	9:33
DEPTH TO WATER:	93.54 Ft.	PURGE RATE:	1.00	GPM.
LENGTH OF WATER COL:	60.06 Ft.		DATE	TIME
VOLUME TO PURGE:	9.61 Gal.	PURGE ENDED:	9-8-11	9:46
		ACT. VOL. PURGED:	13	GAL.
		Draw Down:	94.12	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:42	23.44	396	7.32	0.82	0.8
AB JC	9:44	23.46	397	7.35	0.81	0.5
AB JC	9:46	23.47	397	7.35	0.80	0.6

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
9-8-11 | 9:46

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

			DATE	TIME
RELINQUISHED BY:	J. Clayton	REP. OF SOLID WASTE DEPT.	9-8-11	1:38
ACCEPTED BY:	Carol McNulty	REP. OF CONTRACT LAB.	9-8-11	1:38

COMMENT`S: 2.2c CV-07

WO # 6049

13

660-43398

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. _____ | _____

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION : ☑ A.Balloon ☑ J Clayton ☐

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
9-8-11 | ____

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 9-8-11 | 1138
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: 2.2c CV-07

WO#00479

13

6660-43398

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM
MONITORING WELLS BLANK, EQUIPMENT

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ | _____

ACCEPTED BY: [signature] REP. OF SOLID WASTE DEPT. 9-2-11 | 1:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A. Balloon ☐ J. Clayton ☐

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
9-8-11 | 8:50

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 9-8-11 | 1:38
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 9-8-11 | 1:38

COMMENT`S: 2.2 CV-07

WOF 0049

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-43398-1

Login Number: 43398
List Number: 1
Creator: McNulty, Carol

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	2.2c CU-07
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: 660-43398-1

Login Number: 43427
List Number: 1
Creator: McNulty, Carol

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	4.7 degrees C Cu-07
Cooler Temperature is acceptable.	True	
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.	True	
Residual Chlorine Checked.	True	