

BOARD OF COUNTY COMMISSIONERS

Kevin Beckner
Victor D. Crist
Ken Hagan
Al Higginbotham
Lesley "Les" Miller, Jr.
Sandra L. Murman
Mark Sharpe



Office of the County Administrator
Michael S. Merrill

CHIEF ADMINISTRATIVE OFFICER
Helene Marks

CHIEF FINANCIAL ADMINISTRATOR
Bonnie M. Wise

DEPUTY COUNTY ADMINISTRATORS
Lucia E. Garsys
Sharon D. Subadan

August 23, 2012

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. 23**

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 our continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the 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 July 5 - 6, 2012, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples were collected from eleven (11) 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 in the surficial range from 3.94 to 5.72 pH units. The pH values within the surficial aquifer across the SCLF have historically been observed 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 groundwater monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. Values ranged from 1.12 to 6.48 NTU in the surficial wells, and from 0.07 to 7.16 NTU in the upper Floridan wells. Due to elevated turbidity observed in P-18S, the County collected a representative groundwater sample from the surficial aquifer groundwater monitoring well, TH-30.

Conductivity

The conductivity values in most of the groundwater monitoring wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. The conductivity values observed in the surficial aquifer ranged from 232 to 527 umhos/cm. The conductivity value observed in upper Floridan groundwater monitoring well TH-72 during this sampling event was 900 uhmos/cm, which is significantly higher than the previous month's value. There was over 19 inches of rainfall recorded at the site in the month of June, and the higher potentiometric surface and potential downward migration may be contributing to the higher conductivity observed in TH-72.

Total Dissolved Solids (TDS)

The TDS values observed in the surficial aquifer groundwater monitoring wells were all observed below the SDWS of 500 mg/l. The TDS observed in TH-72 was above the SDWS at 650 mg/l, indicating minor impact to the upper Floridan immediately down gradient of the sinkhole. All the other upper Floridan wells were observed below the SDWS for TDS.

Chloride

Chloride values in the surficial aquifer groundwater monitoring wells ranged in concentration from 37 to 130 mg/l, which are all below the SDWS of 250 mg/l. The chloride value observed in TH-72 was 190 mg/l, which represents a significant increase from the June value of 46 mg/l. Chloride values are historically very low in the upper Floridan aquifer monitoring wells and limited use potable supply wells.

Mr. John Morris, P.G.

August 23, 2012

Page 3

Arsenic

The arsenic observed in TH-58 during this sampling event was 0.026 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present in TH-58 at almost the same concentration for well over ten years. Although significant changes in water quality have recently been observed in TH-58, the arsenic values have continued to remain very stable. This observation continues to support the position that the arsenic is not attributable to the landfill or the sinkhole, and is naturally occurring within the soils surrounding the well, likely being mobilized in the anaerobic environment below the lined landfill. The arsenic observed in TH-74 and TH-75 is likely a result of these processes as well, and not attributable to the landfill.

Iron

Total iron concentrations in the seven (7) surficial aquifer wells were all observed above the SDWS of 0.3 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 concentrations of iron in the upper Floridan wells were below the SDWS, except in TH-72, which exhibited 0.39 mg/l. The iron in TH-72 represents a minor increase from the last months results.

Total Ammonia

Ammonia concentrations in surficial aquifer wells TH-28A and TH-72 were observed at 3.0 and 2.9 mg/l, respectively, which is above the Groundwater Cleanup Target Level (GCTL) of 2.8 mg/l. The location of TH-28A is directly south of surficial well TH-73 and southwest of the sinkhole. The location of TH-72 is immediately west of the sinkhole. The appearance of ammonia in TH-28 is a new development that first appeared in May 2012, and indicates the minor impacts appear to be spreading to the southwest. All other groundwater monitoring wells were below the GCTL. The County will continue to closely evaluate this component of water quality in future IAMP sampling.

Conclusions

The water quality observed in the July 2012 sampling event continues to indicate the wells closest to the sinkhole have exhibited minor changes in water quality. Based on the proximity of the wells and the trends observed, it is apparent that these impacts are likely a result of the sinkhole and/or the grouting activities conducted as part of the investigation and initial remediation activities conducted at the site. Additionally, the significant amount of rain in the month of June changed groundwater elevations and the potentiometric surface. These changes may have contributed to the short term water quality changes observed.

Overall, the water quality observations continue to indicate minor impacts in close proximity to the sinkhole. The impacts observed in the upper Floridan aquifer well, TH-72 are very minor and were not unexpected. The on-site supply wells continue to exhibit good water quality and no significant changes have been observed to date.

Mr. John Morris, P.G.

August 23, 2012

Page 4

Recommendations

The County will continue to evaluate water quality in the IAMP network of monitoring and supply wells. Specific attention to changes in the upper Floridan aquifer will be a primary focus in the future monthly sampling events.

Based on over one year of monthly IAMP sampling and the water quality observed to date, the County recommends the IAMP sampling program be reduced to a quarterly schedule in the near future. The sampling of these wells could be performed in conjunction with the required quarterly sampling of the site, but reported separately. As discussed with the FDEP, the County intends to continue the monthly IAMP sampling schedule, further evaluate the compiled data set, and prepare the justification for the reduced sampling frequency sometime in October 2012.

Enclosed for your review please find a site location map depicting the on-site wells sampled, the water quality data summary table, a groundwater elevation data table, groundwater contour and 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 to call me at (813) 272-5977, ext. 43944.

Respectfully submitted,

David S. Adams 8/23/2012

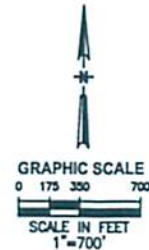
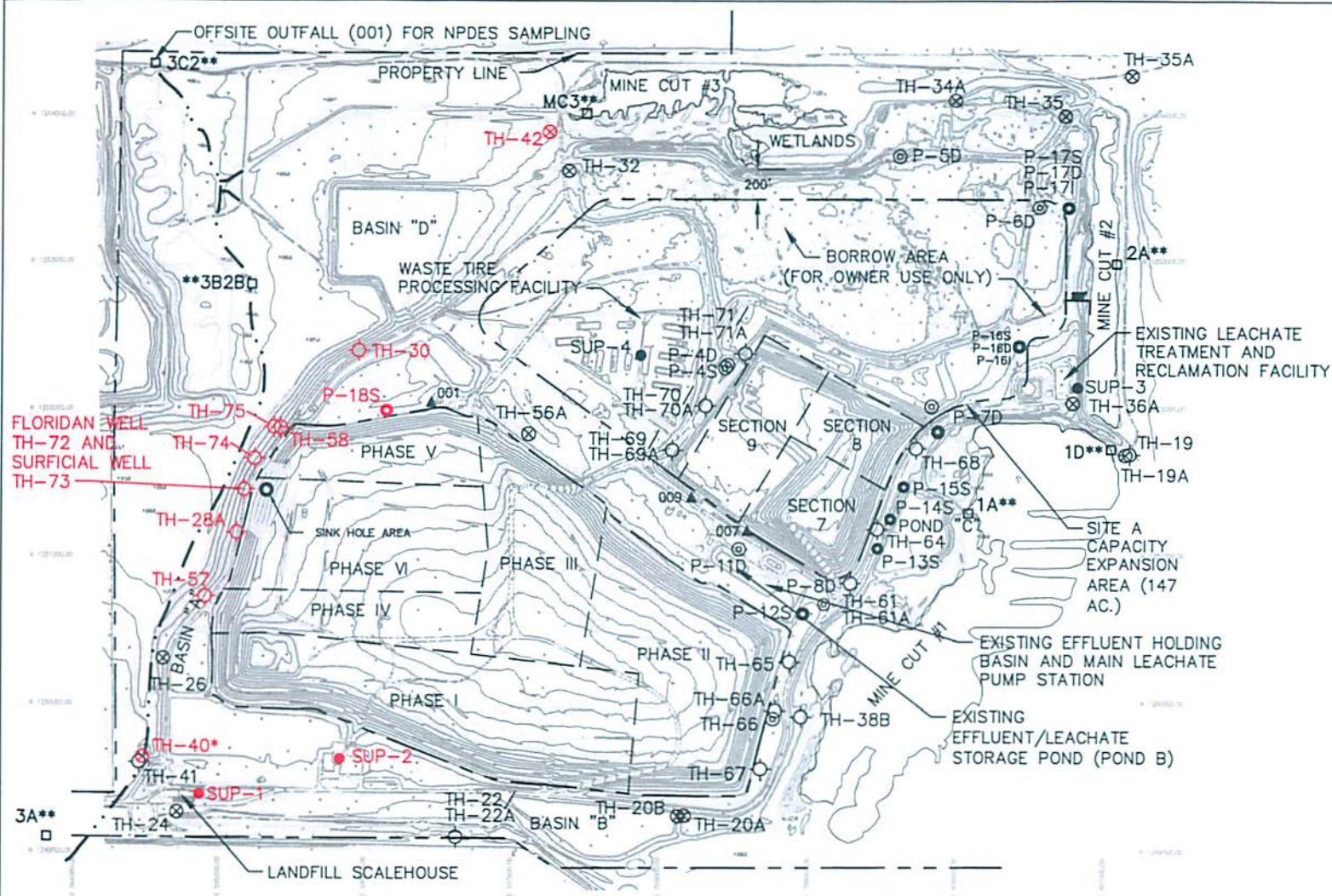
David S. Adams, P.G.
Environmental Manager
Public Utilities Department



xc: John Lyons, Director, Public Works Department
Patricia Berry, Public Utilities Department
Pamela Greene, Public Utilities Department
Larry Ruiz, Public Utilities Department
Beth Schinella, Public Utilities Department
Michelle Van Dyk, Public Utilities Department
Richard Tedder, FDEP Tallahassee
Mary Yeargan, FDEP Southwest District
Susan Pelz, FDEP Southwest District
Steve Morgan, FDEP, Southwest District
Andy Schipfer, EPC
Ernest Ely, WM
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services

G:/enviro/self/ ADRs/IAMP Report No.22.doc

Final copy scanned to LFS/Southeast/Sinkhole/SCLF – IAMP Report No 22.



LEGEND

- 001 ▲ LEACHATE SAMPLING LOCATION
- P-15 ○ SHALLOW PIEZOMETER
- P-1D ○ DEEP PIEZOMETER
- SUP-1 ● SUPPLY WELL
- TH-32 ○ INACTIVE MONITORING WELL LOCATION AND DESIGNATION
- P-8D ○ PIEZOMETER TO MONITOR HYDRAULIC DIVIDE
- 1D □ SURFACE WATER MONITORING SITE LOCATION
- TH-22A ○ MONITORING SITE LOCATION MONITOR WELL
- FLORIDAN AQUIFER
- 1A** ○ STAFF GAUGE
- TH-73 ○ MONITORING WELL SAMPLED AS PART OF IAMP

NOTE:
TOPOGRAPHICAL INFORMATION COMPILED FROM EXISTING CONDITIONS SURVEY BY PICKETT & ASSOCIATES DATED JULY 2011 AND FROM SINKHOLE AREA CUT/FILL AND WASTE RELOCATION PLAN AS-BUILT SURVEY BY PICKETT & ASSOCIATES DATED SEPTEMBER 2011.



SHEET TITLE

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

PROJECT NUMBER

SCALE

DATE

DECEMBER 2011

REFERENCE SHEET

DRAWING NAME

EXHIBIT NUMBER

1

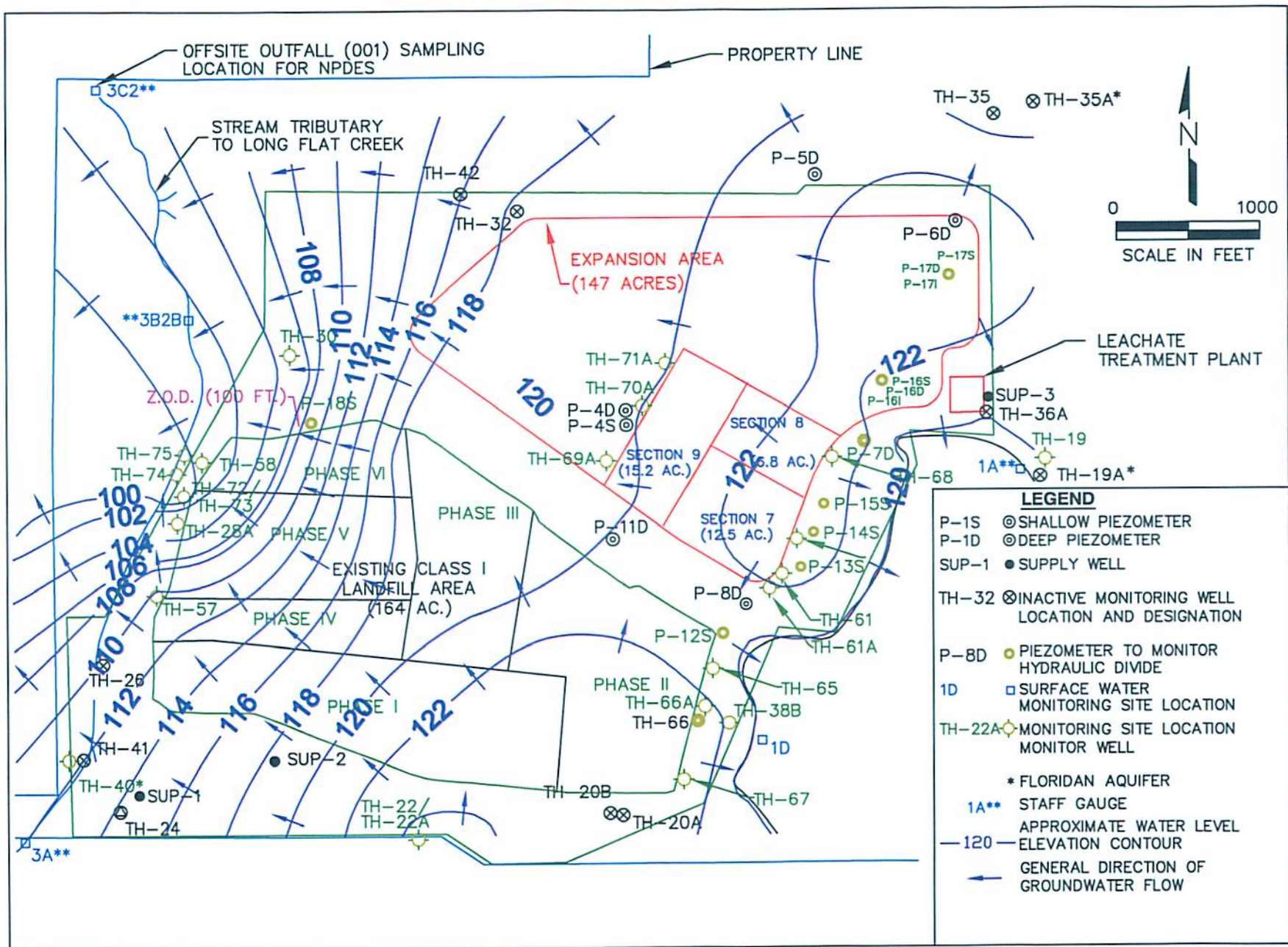
Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
July 5, 2012

GENERAL (mg/l)	Surficial Aquifer Wells							Upper Floridan Aquifer Wells						(MCL) STANDARD F.A.C. 62-550
PARAMETERS	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	
conductivity (umhos/cm) (field)	344	462	274	527	232	495	344	304	389	454	900	263	275	NS
dissolved oxygen (mg/l) (field)	0.49	0.15	0.27	0.62	0.31	0.32	0.22	0.63	0.6	0.86	0.23	0.07	0.08	NS
pH (field)	5.25	3.94	5.11	5.72	4.77	4.99	5.35	6.69	7.39	6.50	6.54	7.27	7.35	(6.5 - 8.5)**
temperature (°C) (field)	26.77	23.50	26.28	26.35	24.63	23.09	23.52	23.49	23.78	24.06	23.52	24.61	24.69	NS
turbidity (NTU) (field)	3.53	1.83	1.12	2.34	9	5.33	6.48	0.42	0.18	7.16	0.4	0.02	0.07	NS
total dissolved solids (mg/l)	150	280	170	310	140	240	180	210	200	280	650	160	190	500**
chloride (mg/l)	75	130 J3	54	87	50	73	37	7.9	8.5	17	190	9.1	10	250**
ammonia nitrogen (mg/l as N)	3	2.4 J3	1.5	1.4	1.7	2.1	2	0.54	0.68	0.53	2.9 J3	0.57	0.4	2.8***
Metals: (mg/l)	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
arsenic	0.004 u	0.004 u	0.004 u	0.024	0.004 u	0.012	0.01	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.01*
iron	4	0.43	1.2	3.4	4	11	9.8	0.05 u	0.05 u	0.22	0.39	0.05 u	0.05 u	0.3**
sodium	29	31	17	30	18	27	15	14	18	16	70	8.5	8.6	160*
Note: Ref. Groundwater Guidance Concentrations, FDEP 2012 MCL=MAXIMUM CONTAMINANT LEVEL BDL=BELOW DETECTION LIMIT NTU=NEPHELOMETRIC TURBIDITY UNITS J3 = estimated value, value may not be accurate. Spike recovery of RPD outside of criteria. u = parameter was analyzed but not detected. * = DENOTES PRIMARY DRINKING WATER STANDARD ** = DENOTES SECONDARY DRINKING WATER STANDARD *** = DENOTES FLORIDA GUIDANCE CONCENTRATION														
5.25														
ug/l=MICROGRAMS PER LITER														
mg/l=MILLIGRAMS PER LITER														
NS=NO STANDARD														

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR SOUTHEAST LANDFILL

July 3, 2012

Measuring Point I.D.	T.O.C. Elevations (NGVD)	07/03/2012 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	22.87	117.91	10:14 AM
P-4S	140.95	9.79	131.16	10:12 AM
P-5D	151.94	Dry	Dry	8:48 AM
P-6D-A	148.01	23.32	124.69	8:57 AM
P-7D	138.92	16.50	122.42	10:30 AM
P-8D	138.34	17.86	120.48	10:51 AM
P-11D	138.02	17.67	120.35	10:26 AM
P-12S	134.97	14.00	120.97	10:54 AM
P-13S	140.21	16.50	123.71	10:45 AM
P-14S	138.56	14.70	123.86	10:41 AM
P-15S	139.19	15.87	123.32	10:39 AM
P-16S	143.38	16.08	127.30	9:34 AM
P-16I	144.15	23.67	120.48	9:32 AM
P-16D	143.84	23.38	120.46	9:30 AM
P-17S	137.35	9.80	127.55	9:08 AM
P-17I	137.32	13.75	123.57	9:06 AM
P-17D	137.22	14.24	122.98	9:05 AM
P-18S	129.86	18.20	111.66	8:26 AM
P-19	133.36	7.44	125.92	8:53 AM
P-20	132.38	11.07	121.31	9:53 AM
P-21	122.79	1.34	121.45	9:41 AM
P-22	128.35	7.09	121.26	9:45 AM
P-23	143.13	22.74	120.39	9:38 AM
TH-19*	130.27	104.99	25.28	9:21 AM
TH-20A	131.86	8.55	123.31	11:32 AM
TH-20B	132.57	9.31	123.26	11:34 AM
TH-22	128.82	4.28	124.54	11:45 AM
TH-22A	129.27	4.91	124.36	11:43 AM
TH-24A	128.23	3.75	124.48	11:38 AM
TH-28A	131.10	28.05	103.05	7:42 AM
TH-30	128.88	23.69	105.19	7:57 AM
TH-32	129.90	11.48	118.42	8:31 AM
TH-35	145.98	28.75	119.23	9:12 AM
TH-36A	152.70	32.68	120.02	9:25 AM
TH-38A	130.68	9.87	120.81	11:29 AM
TH-38B	131.81	10.07	121.74	11:27 AM
TH-40*	124.99	100.03	24.96	7:34 AM
TH-41*	125.00	103.35	21.65	7:31 AM
TH-42*	116.74	82.84	33.90	8:35 AM
TH-57	128.36	18.39	109.97	7:39 AM
TH-58	127.88	27.23	100.65	7:53 AM
TH-61	138.73	18.29	122.44	10:47 AM
TH-61A	139.45	15.89	123.56	10:49 AM
TH-64	139.64	15.25	124.39	10:43 AM
TH-65	135.40	14.50	120.90	10:57 AM
TH-66	130.58	7.89	122.69	11:06 AM
TH-66A	130.66	8.29	122.37	11:04 AM
TH-67	129.51	4.85	124.66	11:31 AM
TH-68	140.01	17.97	122.04	10:33 AM
TH-69A	144.97	26.11	118.86	10:23 AM
TH-70A	146.63	26.62	120.01	10:17 AM
TH-71A	146.95	27.12	119.83	10:07 AM
TH-72	130.96	104.95	26.01	7:46 AM
TH-73	131.07	31.51	99.56	7:48 AM
TH-74	109.08	9.45	99.63	8:06 AM
TH-75	106.92	7.36	99.56	8:02 AM
SW-3A	3.0'=125.53'	0.64	123.17	7:26 AM
SW-3B2B	3.0'=97.97'	1.72	98.69	8:16 AM
SW-3C2	6.0'=92.33'	1.76	88.09	8:20 AM
Mine Cut #1	4.0'=122.14'	1.76	119.90	10:36 AM
Mine Cut #2	6.0'=123.47'	2.32	119.79	9:17 AM
Mine Cut #3	4.0'=112.27'	2.24	110.51	8:37 AM
Mine Cut #4	5.0'=97.54'	1.66	94.20	8:40 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 — July 3, 2012

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: 660-48683-1
Client Project/Site: Southeast Landfill

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:
7/24/2012 12:08:47 PM

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

LINKS

Review your project
results through

Total Access

Have a Question?

**Ask
The
Expert**

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	10
QC Sample Results	25
QC Association Summary	32
Lab Chronicle	36
Certification Summary	40
Method Summary	41
Sample Summary	42
Chain of Custody	43
Receipt Checklists	58

Definitions/Glossary

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

TestAmerica Job ID: 660-48683-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
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
CNF	Contains no Free Liquid
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
QC	Quality Control
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 Landfill

TestAmerica Job ID: 660-48683-1

Job ID: 660-48683-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-48683-1

Comments

No additional comments.

Receipt

The samples were received on 7/5/2012 2:43 PM and 7/6/2012 2:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.6° C and 4.8° C.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike duplicate (MSD) recovery for batch 126551 was outside control limits for Chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300.0: The matrix spike (MS) recovery for batch 126603 was outside control limits for Chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 126409 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 126410 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-74

Lab Sample ID: 660-48683-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		10	4.0	ug/L	1		6010B	Total
									Recoverable
Iron	11000		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	27		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	73		2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.1		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	240		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	4.99				SU	1		Field Sampling	Total/NA
Field Temperature	23.09				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.32				mg/L	1		Field Sampling	Total/NA
Specific Conductance	495				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.33				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-75

Lab Sample ID: 660-48683-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		10	4.0	ug/L	1		6010B	Total
									Recoverable
Iron	9800		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	15		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	37		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	2.0		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	180		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.35				SU	1		Field Sampling	Total/NA
Field Temperature	23.52				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Specific Conductance	344				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.48				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-30

Lab Sample ID: 660-48683-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	430		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	31		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	130	J3	2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.4	J3	0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	3.94				SU	1		Field Sampling	Total/NA
Field Temperature	23.50				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.15				mg/L	1		Field Sampling	Total/NA
Specific Conductance	462				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.83				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-42

Lab Sample ID: 660-48683-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	220		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	16		0.50	0.31	mg/L	1		6010B	Total
									Recoverable

Detection Summary

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-42 (Continued)

Lab Sample ID: 660-48683-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.53		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	6.50				SU	1		Field Sampling	Total/NA
Field Temperature	24.06				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.86				mg/L	1		Field Sampling	Total/NA
Specific Conductance	454				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.16				NTU	1		Field Sampling	Total/NA

Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-48683-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		10	4.0	ug/L	1		6010B	Total Recoverable
Iron	11000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	27		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	64		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	2.0		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	250		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-48683-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.64		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	0.39		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.20		0.060	0.030	mg/L	1		350.1	Total/NA

Client Sample ID: TH-40

Lab Sample ID: 660-48683-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	18		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	8.5		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.68		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Field Temperature	23.78				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.60				mg/L	1		Field Sampling	Total/NA
Specific Conductance	389				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.18				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-57

Lab Sample ID: 660-48683-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1200		200	50	ug/L	1		6010B	Total Recoverable
Sodium	17		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	54		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.5		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.11				SU	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-57 (Continued)

Lab Sample ID: 660-48683-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	26.28				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.27				mg/L	1		Field Sampling	Total/NA
Specific Conductance	274				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-48712-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	390		200	50	ug/L	1		6010B	Total Recoverable
Sodium	70		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	190		2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.9	J3	0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	650		25	25	mg/L	1		SM 2540C	Total/NA
Field pH	6.54				SU	1		Field Sampling	Total/NA
Field Temperature	23.52				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.23				mg/L	1		Field Sampling	Total/NA
Specific Conductance	900				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.40				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-48712-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	29		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	75		2.0	0.80	mg/L	4		300.0	Total/NA
Ammonia as N	3.0		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	150		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.25				SU	1		Field Sampling	Total/NA
Field Temperature	26.77				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.49				mg/L	1		Field Sampling	Total/NA
Specific Conductance	344				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.53				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-48712-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	7.9		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.54		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	210		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	6.69				SU	1		Field Sampling	Total/NA
Field Temperature	23.49				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.63				mg/L	1		Field Sampling	Total/NA
Specific Conductance	304				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.42				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-48712-4

Detection Summary

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

TestAmerica Job ID: 660-48783-1

Client Sample ID: TH-58 WACS# 1571 (Continued)

Lab Sample ID: 660-48712-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	24		10	4.0	ug/L	1		6010B	Total
									Recoverable
Iron	3400		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	30		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	87		2.0	0.80	mg/L	4		300.0	Total/NA
Ammonia as N	1.4		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	310		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.72				SU	1		Field Sampling	Total/NA
Field Temperature	26.35				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.62				mg/L	1		Field Sampling	Total/NA
Specific Conductance	527				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.34				NTU	1		Field Sampling	Total/NA

5

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-48712-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.6		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	10		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.40		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	24.69				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	275				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.07				NTU	1		Field Sampling	Total/NA

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-48712-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.5		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	9.1		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.57		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	160		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	24.61				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	263				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.02				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-48712-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4000		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	18		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	50		2.0	0.80	mg/L	4		300.0	Total/NA
Ammonia as N	1.7		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.77				SU	1		Field Sampling	Total/NA
Field Temperature	24.63				Degrees C	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-48683-1

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

Lab Sample ID: 660-48712-7

Analyte	Result	Qualifier	PQL	MDL	Unit	DII	Fac	D	Method	Prep Type
Oxygen, Dissolved	0.31				mg/L			1	Field Sampling	Total/NA
Specific Conductance	232				umhos/cm			1	Field Sampling	Total/NA
Turbidity	9.00				NTU			1	Field Sampling	Total/NA

Client Sample Results

Client: Hillsborough County Public Utilities Dept
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-74

Lab Sample ID: 660-48683-1

Date Collected: 07/05/12 10:37

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		10	4.0	ug/L		07/06/12 10:56	07/09/12 11:58	1
Iron	11000		200	50	ug/L		07/06/12 10:56	07/09/12 11:58	1
Sodium	27		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 11:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73		2.5	1.0	mg/L			07/12/12 11:11	5
Ammonia as N	2.1		0.060	0.030	mg/L			07/09/12 19:50	1
Total Dissolved Solids	240		10	10	mg/L			07/11/12 09:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.99				SU			07/05/12 10:37	1
Field Temperature	23.09				Degrees C			07/05/12 10:37	1
Oxygen, Dissolved	0.32				mg/L			07/05/12 10:37	1
Specific Conductance	495				umhos/cm			07/05/12 10:37	1
Turbidity	5.33				NTU			07/05/12 10:37	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-75

Lab Sample ID: 660-48683-2

Date Collected: 07/05/12 13:01

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		10	4.0	ug/L		07/06/12 10:56	07/09/12 12:11	1
Iron	9800		200	50	ug/L		07/06/12 10:56	07/09/12 12:11	1
Sodium	15		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		1.0	0.40	mg/L			07/12/12 11:26	2
Ammonia as N	2.0		0.060	0.030	mg/L			07/09/12 19:52	1
Total Dissolved Solids	180		10	10	mg/L			07/11/12 09:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.35				SU			07/05/12 13:01	1
Field Temperature	23.52				Degrees C			07/05/12 13:01	1
Oxygen, Dissolved	0.22				mg/L			07/05/12 13:01	1
Specific Conductance	344				umhos/cm			07/05/12 13:01	1
Turbidity	6.48				NTU			07/05/12 13:01	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-30

Lab Sample ID: 660-48683-3

Date Collected: 07/05/12 12:54

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:14	1
Iron	430		200	50	ug/L		07/06/12 10:56	07/09/12 12:14	1
Sodium	31		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	J3	2.5	1.0	mg/L			07/13/12 09:28	5
Ammonia as N	2.4	J3	0.060	0.030	mg/L			07/09/12 20:20	1
Total Dissolved Solids	280		10	10	mg/L			07/11/12 09:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	3.94				SU			07/05/12 12:54	1
Field Temperature	23.50				Degrees C			07/05/12 12:54	1
Oxygen, Dissolved	0.15				mg/L			07/05/12 12:54	1
Specific Conductance	462				umhos/cm			07/05/12 12:54	1
Turbidity	1.83				NTU			07/05/12 12:54	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-42

Date Collected: 07/05/12 12:14

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:18	1
Iron	220		200	50	ug/L		07/06/12 10:56	07/09/12 12:18	1
Sodium	16		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		0.50	0.20	mg/L			07/12/12 16:08	1
Ammonia as N	0.53		0.060	0.030	mg/L			07/09/12 20:24	1
Total Dissolved Solids	280		10	10	mg/L			07/11/12 09:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.50				SU			07/05/12 12:14	1
Field Temperature	24.06				Degrees C			07/05/12 12:14	1
Oxygen, Dissolved	0.86				mg/L			07/05/12 12:14	1
Specific Conductance	454				umhos/cm			07/05/12 12:14	1
Turbidity	7.16				NTU			07/05/12 12:14	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-48683-5

Date Collected: 07/05/12 00:00

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		10	4.0	ug/L		07/06/12 10:56	07/09/12 12:55	1
Iron	11000		200	50	ug/L		07/06/12 10:56	07/09/12 12:55	1
Sodium	27		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		5.0	2.0	mg/L			07/12/12 17:10	10
Ammonia as N	2.0		0.060	0.030	mg/L			07/09/12 20:25	1
Total Dissolved Solids	250		10	10	mg/L			07/11/12 09:07	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-48683-6

Date Collected: 07/05/12 09:25

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:58	1
Iron	50	U	200	50	ug/L		07/06/12 10:56	07/09/12 12:58	1
Sodium	0.64		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.39	I	0.50	0.20	mg/L			07/13/12 14:39	1
Ammonia as N	0.20		0.060	0.030	mg/L			07/09/12 20:29	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/11/12 09:07	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-40

Lab Sample ID: 660-48683-7

Date Collected: 07/05/12 09:46

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:45	1
Iron	50	U	200	50	ug/L		07/06/12 10:56	07/09/12 12:45	1
Sodium	18		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		0.50	0.20	mg/L			07/13/12 13:53	1
Ammonia as N	0.68		0.060	0.030	mg/L			07/09/12 20:26	1
Total Dissolved Solids	200		10	10	mg/L			07/11/12 09:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.39				SU			07/05/12 09:46	1
Field Temperature	23.78				Degrees C			07/05/12 09:46	1
Oxygen, Dissolved	0.60				mg/L			07/05/12 09:46	1
Specific Conductance	389				umhos/cm			07/05/12 09:46	1
Turbidity	0.18				NTU			07/05/12 09:46	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-57

Lab Sample ID: 660-48683-8

Date Collected: 07/05/12 10:09

Matrix: Ground Water

Date Received: 07/05/12 14:43

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 13:09	1
Iron	1200		200	50	ug/L		07/06/12 10:56	07/09/12 13:09	1
Sodium	17		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 13:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54		1.0	0.40	mg/L			07/17/12 14:05	2
Ammonia as N	1.5		0.060	0.030	mg/L			07/09/12 20:28	1
Total Dissolved Solids	170		5.0	5.0	mg/L			07/11/12 09:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.11				SU			07/05/12 10:09	1
Field Temperature	26.28				Degrees C			07/05/12 10:09	1
Oxygen, Dissolved	0.27				mg/L			07/05/12 10:09	1
Specific Conductance	274				umhos/cm			07/05/12 10:09	1
Turbidity	1.12				NTU			07/05/12 10:09	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-48712-1

Date Collected: 07/06/12 10:23

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:33	1
Iron	390		200	50	ug/L		07/09/12 08:39	07/09/12 17:33	1
Sodium	70		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		2.5	1.0	mg/L			07/17/12 14:21	5
Ammonia as N	2.9	J3	0.060	0.030	mg/L			07/09/12 19:22	1
Total Dissolved Solids	650		25	25	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.54				SU			07/06/12 10:23	1
Field Temperature	23.52				Degrees C			07/06/12 10:23	1
Oxygen, Dissolved	0.23				mg/L			07/06/12 10:23	1
Specific Conductance	900				umhos/cm			07/06/12 10:23	1
Turbidity	0.40				NTU			07/06/12 10:23	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-48712-2

Date Collected: 07/06/12 09:29

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:45	1
Iron	4000		200	50	ug/L		07/09/12 08:39	07/09/12 17:45	1
Sodium	29		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		2.0	0.80	mg/L			07/13/12 16:42	4
Ammonia as N	3.0		0.060	0.030	mg/L			07/09/12 19:36	1
Total Dissolved Solids	150		10	10	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.25				SU			07/06/12 09:29	1
Field Temperature	26.77				Degrees C			07/06/12 09:29	1
Oxygen, Dissolved	0.49				mg/L			07/06/12 09:29	1
Specific Conductance	344				umhos/cm			07/06/12 09:29	1
Turbidity	3.53				NTU			07/06/12 09:29	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-48712-3

Date Collected: 07/06/12 11:24

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:49	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 17:49	1
Sodium	14		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		0.50	0.20	mg/L			07/19/12 13:34	1
Ammonia as N	0.54		0.060	0.030	mg/L			07/09/12 19:39	1
Total Dissolved Solids	210		10	10	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.69				SU			07/06/12 11:24	1
Field Temperature	23.49				Degrees C			07/06/12 11:24	1
Oxygen, Dissolved	0.63				mg/L			07/06/12 11:24	1
Specific Conductance	304				umhos/cm			07/06/12 11:24	1
Turbidity	0.42				NTU			07/06/12 11:24	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-48712-4

Date Collected: 07/06/12 10:50

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		10	4.0	ug/L		07/09/12 08:39	07/09/12 17:52	1
Iron	3400		200	50	ug/L		07/09/12 08:39	07/09/12 17:52	1
Sodium	30		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87		2.0	0.80	mg/L			07/13/12 16:58	4
Ammonia as N	1.4		0.060	0.030	mg/L			07/09/12 19:43	1
Total Dissolved Solids	310		10	10	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.72				SU			07/06/12 10:50	1
Field Temperature	26.35				Degrees C			07/06/12 10:50	1
Oxygen, Dissolved	0.62				mg/L			07/06/12 10:50	1
Specific Conductance	527				umhos/cm			07/06/12 10:50	1
Turbidity	2.34				NTU			07/06/12 10:50	1

6

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-48712-5

Date Collected: 07/06/12 11:56

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 18:02	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 18:02	1
Sodium	8.6		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 18:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		0.50	0.20	mg/L			07/19/12 14:20	1
Ammonia as N	0.40		0.060	0.030	mg/L			07/09/12 19:44	1
Total Dissolved Solids	190		10	10	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.35				SU			07/06/12 11:56	1
Field Temperature	24.69				Degrees C			07/06/12 11:56	1
Oxygen, Dissolved	0.08				mg/L			07/06/12 11:56	1
Specific Conductance	275				umhos/cm			07/06/12 11:56	1
Turbidity	0.07				NTU			07/06/12 11:56	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-48712-6

Date Collected: 07/06/12 12:23

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 18:06	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 18:06	1
Sodium	8.5		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 18:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		0.50	0.20	mg/L			07/13/12 16:11	1
Ammonia as N	0.57		0.060	0.030	mg/L			07/09/12 19:45	1
Total Dissolved Solids	160		10	10	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.27				SU			07/06/12 12:23	1
Field Temperature	24.61				Degrees C			07/06/12 12:23	1
Oxygen, Dissolved	0.07				mg/L			07/06/12 12:23	1
Specific Conductance	263				umhos/cm			07/06/12 12:23	1
Turbidity	0.02				NTU			07/06/12 12:23	1

Client Sample Results

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-48712-7

Date Collected: 07/06/12 10:01

Matrix: Ground Water

Date Received: 07/06/12 14:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 18:09	1
Iron	4000		200	50	ug/L		07/09/12 08:39	07/09/12 18:09	1
Sodium	18		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 18:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		2.0	0.80	mg/L			07/13/12 17:13	4
Ammonia as N	1.7		0.060	0.030	mg/L			07/09/12 19:47	1
Total Dissolved Solids	140		5.0	5.0	mg/L			07/12/12 11:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.77				SU			07/06/12 10:01	1
Field Temperature	24.63				Degrees C			07/06/12 10:01	1
Oxygen, Dissolved	0.31				mg/L			07/06/12 10:01	1
Specific Conductance	232				umhos/cm			07/06/12 10:01	1
Turbidity	9.00				NTU			07/06/12 10:01	1

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-126331/1-A
Matrix: Water
Analysis Batch: 126384

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 126331

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 11:48	1
Iron	50	U	200	50	ug/L		07/06/12 10:56	07/09/12 11:48	1
Sodium	0.31	U	0.50	0.31	mg/L		07/06/12 10:56	07/09/12 11:48	1

Lab Sample ID: LCS 660-126331/2-A
Matrix: Water
Analysis Batch: 126384

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 126331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1020		ug/L		102	75 - 125
Iron	1000	1020		ug/L		102	75 - 125
Sodium	10.0	10.3		mg/L		103	75 - 125

Lab Sample ID: 660-48683-1 MS
Matrix: Ground Water
Analysis Batch: 126384

Client Sample ID: TH-74
Prep Type: Total Recoverable
Prep Batch: 126331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12		1000	1040		ug/L		103	75 - 125
Iron	11000		1000	11800		ug/L		85	75 - 125
Sodium	27		10.0	36.7		mg/L		101	75 - 125

Lab Sample ID: 660-48683-1 MSD
Matrix: Ground Water
Analysis Batch: 126384

Client Sample ID: TH-74
Prep Type: Total Recoverable
Prep Batch: 126331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12		1000	1050		ug/L		104	75 - 125	1	20
Iron	11000		1000	12100		ug/L		115	75 - 125	3	20
Sodium	27		10.0	37.5		mg/L		109	75 - 125	2	20

Lab Sample ID: 660-48683-7 MS
Matrix: Ground Water
Analysis Batch: 126384

Client Sample ID: TH-40
Prep Type: Total Recoverable
Prep Batch: 126331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1040		ug/L		104	75 - 125
Iron	50	U	1000	1070		ug/L		107	75 - 125
Sodium	18		10.0	28.6		mg/L		106	75 - 125

Lab Sample ID: 660-48683-7 MSD
Matrix: Ground Water
Analysis Batch: 126384

Client Sample ID: TH-40
Prep Type: Total Recoverable
Prep Batch: 126331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1050		ug/L		105	75 - 125	1	20
Iron	50	U	1000	1080		ug/L		106	75 - 125	0	20
Sodium	18		10.0	28.5		mg/L		105	75 - 125	0	20

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

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

Lab Sample ID: MB 660-126370/1-A

Matrix: Water

Analysis Batch: 126384

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 126370

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:23	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 17:23	1
Sodium	0.31	U	0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:23	1

Lab Sample ID: LCS 660-126370/2-A

Matrix: Water

Analysis Batch: 126384

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 126370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1010		ug/L		101	75 - 125
Iron	1000	1060		ug/L		106	75 - 125
Sodium	10.0	10.2		mg/L		102	75 - 125

Lab Sample ID: 660-48712-1 MS

Matrix: Ground Water

Analysis Batch: 126384

Client Sample ID: TH-72 WACS# 27753

Prep Type: Total Recoverable

Prep Batch: 126370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1020		ug/L		102	75 - 125
Iron	390		1000	1440		ug/L		104	75 - 125
Sodium	70		10.0	81.4		mg/L		110	75 - 125

Lab Sample ID: 660-48712-1 MSD

Matrix: Ground Water

Analysis Batch: 126384

Client Sample ID: TH-72 WACS# 27753

Prep Type: Total Recoverable

Prep Batch: 126370

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1020		ug/L		102	75 - 125	0	20
Iron	390		1000	1410		ug/L		102	75 - 125	2	20
Sodium	70		10.0	79.7		mg/L		94	75 - 125	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-126551/4

Matrix: Water

Analysis Batch: 126551

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/12/12 08:52	1

Lab Sample ID: LCS 660-126551/5

Matrix: Water

Analysis Batch: 126551

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	10.1		mg/L		101	90 - 110

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-48670-C-4 MS ^10

Matrix: Water

Analysis Batch: 126551

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	270	J3	100	370		mg/L		102	90 - 110

Lab Sample ID: 660-48670-C-4 MSD ^10

Matrix: Water

Analysis Batch: 126551

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	270	J3	100	391	J3	mg/L		123	90 - 110	6	30

Lab Sample ID: MB 660-126593/10

Matrix: Water

Analysis Batch: 126593

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/12/12 15:38	1

Lab Sample ID: LCS 660-126593/11

Matrix: Water

Analysis Batch: 126593

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	9.51		mg/L		95	90 - 110

Lab Sample ID: 660-48683-4 MS

Matrix: Ground Water

Analysis Batch: 126593

Client Sample ID: TH-42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17		10.0	26.5		mg/L		97	90 - 110

Lab Sample ID: 660-48683-4 MSD

Matrix: Ground Water

Analysis Batch: 126593

Client Sample ID: TH-42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17		10.0	26.1		mg/L		93	90 - 110	2	30

Lab Sample ID: MB 660-126603/4

Matrix: Water

Analysis Batch: 126603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/13/12 08:58	1

Lab Sample ID: LCS 660-126603/5

Matrix: Water

Analysis Batch: 126603

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	9.48		mg/L		95	90 - 110

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-48683-3 MS
Matrix: Ground Water
Analysis Batch: 126603

Client Sample ID: TH-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	130	J3	50.0	174	J3	mg/L		83	90 - 110

Lab Sample ID: 660-48683-3 MSD
Matrix: Ground Water
Analysis Batch: 126603

Client Sample ID: TH-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	130	J3	50.0	183		mg/L		103	90 - 110	5	30

Lab Sample ID: 660-48683-7 MS
Matrix: Ground Water
Analysis Batch: 126603

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.5		10.0	18.5		mg/L		100	90 - 110

Lab Sample ID: 660-48683-7 MSD
Matrix: Ground Water
Analysis Batch: 126603

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.5		10.0	18.9		mg/L		105	90 - 110	2	30

Lab Sample ID: MB 660-126720/4
Matrix: Water
Analysis Batch: 126720

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			07/17/12 08:47	1

Lab Sample ID: LCS 660-126720/5
Matrix: Water
Analysis Batch: 126720

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	9.52		mg/L		95	90 - 110

Lab Sample ID: 660-48806-B-4 MS
Matrix: Water
Analysis Batch: 126720

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	19		10.0	28.3		mg/L		92	90 - 110

Lab Sample ID: 660-48806-B-4 MSD
Matrix: Water
Analysis Batch: 126720

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	19		10.0	29.0		mg/L		99	90 - 110	2	30

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 660-126834/5
Matrix: Water
Analysis Batch: 126834

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L	-		07/19/12 09:27	1

Lab Sample ID: LCS 660-126834/6
Matrix: Water
Analysis Batch: 126834

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	9.80		mg/L	-	98	90 - 110

Lab Sample ID: 660-48712-3 MS
Matrix: Ground Water
Analysis Batch: 126834

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.9		10.0	18.3		mg/L	-	104	90 - 110

Lab Sample ID: 660-48712-3 MSD
Matrix: Ground Water
Analysis Batch: 126834

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.9		10.0	18.3		mg/L	-	105	90 - 110	0	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-126409/11
Matrix: Water
Analysis Batch: 126409

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.030	U	0.060	0.030	mg/L	-		07/09/12 19:20	1

Lab Sample ID: LCS 660-126409/12
Matrix: Water
Analysis Batch: 126409

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	0.528		mg/L	-	106	90 - 110

Lab Sample ID: 660-48712-1 MS
Matrix: Ground Water
Analysis Batch: 126409

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.9	J3	1.00	3.74	J3	mg/L	-	82	90 - 110

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-48712-1 MSD
Matrix: Ground Water
Analysis Batch: 126409

Client Sample ID: TH-72 WACS# 27753
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	2.9	J3	1.00	3.70	J3	mg/L		78	90 - 110	1	30

Lab Sample ID: 660-48712-3 MS
Matrix: Ground Water
Analysis Batch: 126409

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.54		1.00	1.61		mg/L		107	90 - 110		

Lab Sample ID: 660-48712-3 MSD
Matrix: Ground Water
Analysis Batch: 126409

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.54		1.00	1.64		mg/L		110	90 - 110	2	30

Lab Sample ID: MB 660-126410/3
Matrix: Water
Analysis Batch: 126410

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Ammonia as N	0.030	U	0.060	0.030	mg/L			07/09/12 20:18	1

Lab Sample ID: LCS 660-126410/4
Matrix: Water
Analysis Batch: 126410

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.500	0.523		mg/L		105	90 - 110		

Lab Sample ID: 660-48683-3 MS
Matrix: Ground Water
Analysis Batch: 126410

Client Sample ID: TH-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	2.4	J3	1.00	3.10	J3	mg/L		74	90 - 110		

Lab Sample ID: 660-48683-3 MSD
Matrix: Ground Water
Analysis Batch: 126410

Client Sample ID: TH-30
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	2.4	J3	1.00	3.14	J3	mg/L		78	90 - 110	1	30

QC Sample Results

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

TestAmerica Job ID: 660-48683-1

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

Lab Sample ID: MB 660-126474/1
Matrix: Water
Analysis Batch: 126474

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/11/12 09:07	1

Lab Sample ID: LCS 660-126474/2
Matrix: Water
Analysis Batch: 126474

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	9920		mg/L		99	80 - 120

Lab Sample ID: 640-39314-B-2 DU
Matrix: Water
Analysis Batch: 126474

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	170		194		mg/L		12	20

Lab Sample ID: MB 660-126547/1
Matrix: Water
Analysis Batch: 126547

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/12/12 11:37	1

Lab Sample ID: LCS 660-126547/2
Matrix: Water
Analysis Batch: 126547

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	9920		mg/L		99	80 - 120

Lab Sample ID: 640-39345-A-2 DU
Matrix: Water
Analysis Batch: 126547

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	320		320		mg/L		0	20

QC Association Summary

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

TestAmerica Job ID: 660-48683-1

Metals

Prep Batch: 126331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-1	TH-74	Total Recoverable	Ground Water	3005A	8
660-48683-1 MS	TH-74	Total Recoverable	Ground Water	3005A	
660-48683-1 MSD	TH-74	Total Recoverable	Ground Water	3005A	
660-48683-2	TH-75	Total Recoverable	Ground Water	3005A	
660-48683-3	TH-30	Total Recoverable	Ground Water	3005A	
660-48683-4	TH-42	Total Recoverable	Ground Water	3005A	
660-48683-5	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	3005A	
660-48683-6	BLANK EQUIPMENT	Total Recoverable	Ground Water	3005A	
660-48683-7	TH-40	Total Recoverable	Ground Water	3005A	
660-48683-7 MS	TH-40	Total Recoverable	Ground Water	3005A	
660-48683-7 MSD	TH-40	Total Recoverable	Ground Water	3005A	
660-48683-8	TH-57	Total Recoverable	Ground Water	3005A	
LCS 660-126331/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-126331/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 126370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48712-1	TH-72 WACS# 27753	Total Recoverable	Ground Water	3005A	
660-48712-1 MS	TH-72 WACS# 27753	Total Recoverable	Ground Water	3005A	
660-48712-1 MSD	TH-72 WACS# 27753	Total Recoverable	Ground Water	3005A	
660-48712-2	TH-28A WACS# 19862	Total Recoverable	Ground Water	3005A	
660-48712-3	TH-19 WACS# 821	Total Recoverable	Ground Water	3005A	
660-48712-4	TH-58 WACS# 1571	Total Recoverable	Ground Water	3005A	
660-48712-5	SUP 2 WACS# 27756	Total Recoverable	Ground Water	3005A	
660-48712-6	SUP 1 WACS# 27755	Total Recoverable	Ground Water	3005A	
660-48712-7	TH-73 WACS# 27754	Total Recoverable	Ground Water	3005A	
LCS 660-126370/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-126370/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 126384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-1	TH-74	Total Recoverable	Ground Water	6010B	126331
660-48683-1 MS	TH-74	Total Recoverable	Ground Water	6010B	126331
660-48683-1 MSD	TH-74	Total Recoverable	Ground Water	6010B	126331
660-48683-2	TH-75	Total Recoverable	Ground Water	6010B	126331
660-48683-3	TH-30	Total Recoverable	Ground Water	6010B	126331
660-48683-4	TH-42	Total Recoverable	Ground Water	6010B	126331
660-48683-5	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	6010B	126331
660-48683-6	BLANK EQUIPMENT	Total Recoverable	Ground Water	6010B	126331
660-48683-7	TH-40	Total Recoverable	Ground Water	6010B	126331
660-48683-7 MS	TH-40	Total Recoverable	Ground Water	6010B	126331
660-48683-7 MSD	TH-40	Total Recoverable	Ground Water	6010B	126331
660-48683-8	TH-57	Total Recoverable	Ground Water	6010B	126331
660-48712-1	TH-72 WACS# 27753	Total Recoverable	Ground Water	6010B	126370
660-48712-1 MS	TH-72 WACS# 27753	Total Recoverable	Ground Water	6010B	126370
660-48712-1 MSD	TH-72 WACS# 27753	Total Recoverable	Ground Water	6010B	126370
660-48712-2	TH-28A WACS# 19862	Total Recoverable	Ground Water	6010B	126370
660-48712-3	TH-19 WACS# 821	Total Recoverable	Ground Water	6010B	126370
660-48712-4	TH-58 WACS# 1571	Total Recoverable	Ground Water	6010B	126370
660-48712-5	SUP 2 WACS# 27756	Total Recoverable	Ground Water	6010B	126370
660-48712-6	SUP 1 WACS# 27755	Total Recoverable	Ground Water	6010B	126370
660-48712-7	TH-73 WACS# 27754	Total Recoverable	Ground Water	6010B	126370

QC Association Summary

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

TestAmerica Job ID: 660-48683-1

Metals (Continued)

Analysis Batch: 126384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-126331/2-A	Lab Control Sample	Total Recoverable	Water	6010B	126331
LCS 660-126370/2-A	Lab Control Sample	Total Recoverable	Water	6010B	126370
MB 660-126331/1-A	Method Blank	Total Recoverable	Water	6010B	126331
MB 660-126370/1-A	Method Blank	Total Recoverable	Water	6010B	126370

General Chemistry

Analysis Batch: 126409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-1	TH-74	Total/NA	Ground Water	350.1	
660-48683-2	TH-75	Total/NA	Ground Water	350.1	
660-48712-1	TH-72 WACS# 27753	Total/NA	Ground Water	350.1	
660-48712-1 MS	TH-72 WACS# 27753	Total/NA	Ground Water	350.1	
660-48712-1 MSD	TH-72 WACS# 27753	Total/NA	Ground Water	350.1	
660-48712-2	TH-28A WACS# 19862	Total/NA	Ground Water	350.1	
660-48712-3	TH-19 WACS# 821	Total/NA	Ground Water	350.1	
660-48712-3 MS	TH-19 WACS# 821	Total/NA	Ground Water	350.1	
660-48712-3 MSD	TH-19 WACS# 821	Total/NA	Ground Water	350.1	
660-48712-4	TH-58 WACS# 1571	Total/NA	Ground Water	350.1	
660-48712-5	SUP 2 WACS# 27756	Total/NA	Ground Water	350.1	
660-48712-6	SUP 1 WACS# 27755	Total/NA	Ground Water	350.1	
660-48712-7	TH-73 WACS# 27754	Total/NA	Ground Water	350.1	
LCS 660-126409/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-126409/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 126410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-3	TH-30	Total/NA	Ground Water	350.1	
660-48683-3 MS	TH-30	Total/NA	Ground Water	350.1	
660-48683-3 MSD	TH-30	Total/NA	Ground Water	350.1	
660-48683-4	TH-42	Total/NA	Ground Water	350.1	
660-48683-5	DUPLICATE NOT BLANK	Total/NA	Ground Water	350.1	
660-48683-6	BLANK EQUIPMENT	Total/NA	Ground Water	350.1	
660-48683-7	TH-40	Total/NA	Ground Water	350.1	
660-48683-8	TH-57	Total/NA	Ground Water	350.1	
LCS 660-126410/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-126410/3	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 126474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39314-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	
660-48683-1	TH-74	Total/NA	Ground Water	SM 2540C	
660-48683-2	TH-75	Total/NA	Ground Water	SM 2540C	
660-48683-3	TH-30	Total/NA	Ground Water	SM 2540C	
660-48683-4	TH-42	Total/NA	Ground Water	SM 2540C	
660-48683-5	DUPLICATE NOT BLANK	Total/NA	Ground Water	SM 2540C	
660-48683-6	BLANK EQUIPMENT	Total/NA	Ground Water	SM 2540C	
660-48683-7	TH-40	Total/NA	Ground Water	SM 2540C	
660-48683-8	TH-57	Total/NA	Ground Water	SM 2540C	
LCS 660-126474/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-126474/1	Method Blank	Total/NA	Water	SM 2540C	

QC Association Summary

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

TestAmerica Job ID: 60-48683-1

General Chemistry (Continued)

Analysis Batch: 126547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39345-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	
660-48712-1	TH-72 WACS# 27753	Total/NA	Ground Water	SM 2540C	
660-48712-2	TH-28A WACS# 19862	Total/NA	Ground Water	SM 2540C	
660-48712-3	TH-19 WACS# 821	Total/NA	Ground Water	SM 2540C	
660-48712-4	TH-58 WACS# 1571	Total/NA	Ground Water	SM 2540C	
660-48712-5	SUP 2 WACS# 27756	Total/NA	Ground Water	SM 2540C	
660-48712-6	SUP 1 WACS# 27755	Total/NA	Ground Water	SM 2540C	
660-48712-7	TH-73 WACS# 27754	Total/NA	Ground Water	SM 2540C	
LCS 660-126547/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-126547/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 126551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48670-C-4 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-48670-C-4 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-48683-1	TH-74	Total/NA	Ground Water	300.0	
660-48683-2	TH-75	Total/NA	Ground Water	300.0	
LCS 660-126551/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-126551/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 126593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-4	TH-42	Total/NA	Ground Water	300.0	
660-48683-4 MS	TH-42	Total/NA	Ground Water	300.0	
660-48683-4 MSD	TH-42	Total/NA	Ground Water	300.0	
660-48683-5	DUPLICATE NOT BLANK	Total/NA	Ground Water	300.0	
LCS 660-126593/11	Lab Control Sample	Total/NA	Water	300.0	
MB 660-126593/10	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 126603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-3	TH-30	Total/NA	Ground Water	300.0	
660-48683-3 MS	TH-30	Total/NA	Ground Water	300.0	
660-48683-3 MSD	TH-30	Total/NA	Ground Water	300.0	
660-48683-6	BLANK EQUIPMENT	Total/NA	Ground Water	300.0	
660-48683-7	TH-40	Total/NA	Ground Water	300.0	
660-48683-7 MS	TH-40	Total/NA	Ground Water	300.0	
660-48683-7 MSD	TH-40	Total/NA	Ground Water	300.0	
660-48712-2	TH-28A WACS# 19862	Total/NA	Ground Water	300.0	
660-48712-4	TH-58 WACS# 1571	Total/NA	Ground Water	300.0	
660-48712-6	SUP 1 WACS# 27755	Total/NA	Ground Water	300.0	
660-48712-7	TH-73 WACS# 27754	Total/NA	Ground Water	300.0	
LCS 660-126603/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-126603/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 126720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-8	TH-57	Total/NA	Ground Water	300.0	
660-48712-1	TH-72 WACS# 27753	Total/NA	Ground Water	300.0	
660-48806-B-4 MS	Matrix Spike	Total/NA	Water	300.0	
660-48806-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-126720/5	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

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

TestAmerica Job ID: 660-48683-1

General Chemistry (Continued)

Analysis Batch: 126720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-126720/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 126834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48712-3	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48712-3 MS	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48712-3 MSD	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48712-5	SUP 2 WACS# 27756	Total/NA	Ground Water	300.0	
LCS 660-126834/6	Lab Control Sample	Total/NA	Water	300.0	
MB 660-126834/5	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 126328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-1	TH-74	Total/NA	Ground Water	Field Sampling	
660-48683-2	TH-75	Total/NA	Ground Water	Field Sampling	
660-48683-3	TH-30	Total/NA	Ground Water	Field Sampling	
660-48683-4	TH-42	Total/NA	Ground Water	Field Sampling	
660-48683-7	TH-40	Total/NA	Ground Water	Field Sampling	
660-48683-8	TH-57	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 126371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48712-1	TH-72 WACS# 27753	Total/NA	Ground Water	Field Sampling	
660-48712-2	TH-28A WACS# 19862	Total/NA	Ground Water	Field Sampling	
660-48712-3	TH-19 WACS# 821	Total/NA	Ground Water	Field Sampling	
660-48712-4	TH-58 WACS# 1571	Total/NA	Ground Water	Field Sampling	
660-48712-5	SUP 2 WACS# 27756	Total/NA	Ground Water	Field Sampling	
660-48712-6	SUP 1 WACS# 27755	Total/NA	Ground Water	Field Sampling	
660-48712-7	TH-73 WACS# 27754	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-74

Date Collected: 07/05/12 10:37

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 11:58	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:50	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		5	126551	07/12/12 11:11	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126328	07/05/12 10:37		TAL TAM

9

Client Sample ID: TH-75

Date Collected: 07/05/12 13:01

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 12:11	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:52	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		2	126551	07/12/12 11:26	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126328	07/05/12 13:01		TAL TAM

Client Sample ID: TH-30

Date Collected: 07/05/12 12:54

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 12:14	GF	TAL TAM
Total/NA	Analysis	350.1		1	126410	07/09/12 20:20	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		5	126603	07/13/12 09:28	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126328	07/05/12 12:54		TAL TAM

Client Sample ID: TH-42

Date Collected: 07/05/12 12:14

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 12:18	GF	TAL TAM
Total/NA	Analysis	350.1		1	126410	07/09/12 20:24	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		1	126593	07/12/12 16:08	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126328	07/05/12 12:14		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-48683-5

Date Collected: 07/05/12 00:00

Matrix: Ground Water

Date Received: 07/05/12 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 12:55	GF	TAL TAM
Total/NA	Analysis	350.1		1	126410	07/09/12 20:25	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		10	126593	07/12/12 17:10	KW	TAL TAM

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-48683-6

Date Collected: 07/05/12 09:25

Matrix: Ground Water

Date Received: 07/05/12 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 12:58	GF	TAL TAM
Total/NA	Analysis	350.1		1	126410	07/09/12 20:29	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		1	126603	07/13/12 14:39	KW	TAL TAM

Client Sample ID: TH-40

Lab Sample ID: 660-48683-7

Date Collected: 07/05/12 09:46

Matrix: Ground Water

Date Received: 07/05/12 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 12:45	GF	TAL TAM
Total/NA	Analysis	350.1		1	126410	07/09/12 20:26	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		1	126603	07/13/12 13:53	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126328	07/05/12 09:46		TAL TAM

Client Sample ID: TH-57

Lab Sample ID: 660-48683-8

Date Collected: 07/05/12 10:09

Matrix: Ground Water

Date Received: 07/05/12 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126331	07/06/12 10:56	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 13:09	GF	TAL TAM
Total/NA	Analysis	350.1		1	126410	07/09/12 20:28	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126474	07/11/12 09:07	TO	TAL TAM
Total/NA	Analysis	300.0		2	126720	07/17/12 14:05	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126328	07/05/12 10:09		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-48712-1

Date Collected: 07/06/12 10:23

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 17:33	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:22	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		5	126720	07/17/12 14:21	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 10:23		TAL TAM

9

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-48712-2

Date Collected: 07/06/12 09:29

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 17:45	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:36	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		4	126603	07/13/12 16:42	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 09:29		TAL TAM

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-48712-3

Date Collected: 07/06/12 11:24

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 17:49	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:39	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		1	126834	07/19/12 13:34	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 11:24		TAL TAM

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-48712-4

Date Collected: 07/06/12 10:50

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 17:52	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:43	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		4	126603	07/13/12 16:58	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 10:50		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-48683-1

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-48712-5

Date Collected: 07/06/12 11:56

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 18:02	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:44	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		1	126834	07/19/12 14:20	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 11:56		TAL TAM

9

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-48712-6

Date Collected: 07/06/12 12:23

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 18:06	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:45	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		1	126603	07/13/12 16:11	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 12:23		TAL TAM

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-48712-7

Date Collected: 07/06/12 10:01

Matrix: Ground Water

Date Received: 07/06/12 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			126370	07/09/12 08:39	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	126384	07/09/12 18:09	GF	TAL TAM
Total/NA	Analysis	350.1		1	126409	07/09/12 19:47	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	126547	07/12/12 11:37	TO	TAL TAM
Total/NA	Analysis	300.0		4	126603	07/13/12 17:13	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	126371	07/06/12 10:01		TAL TAM

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 600-48683-1

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	Federal		P330-11-00177

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

Method Summary

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

TestAmerica Job ID: 660-48683-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

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

TestAmerica Job ID: 660-48683-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-48683-1	TH-74	Ground Water	07/05/12 10:37	07/05/12 14:43
660-48683-2	TH-75	Ground Water	07/05/12 13:01	07/05/12 14:43
660-48683-3	TH-30	Ground Water	07/05/12 12:54	07/05/12 14:43
660-48683-4	TH-42	Ground Water	07/05/12 12:14	07/05/12 14:43
660-48683-5	DUPLICATE NOT BLANK	Ground Water	07/05/12 00:00	07/05/12 14:43
660-48683-6	BLANK EQUIPMENT	Ground Water	07/05/12 09:25	07/05/12 14:43
660-48683-7	TH-40	Ground Water	07/05/12 09:46	07/05/12 14:43
660-48683-8	TH-57	Ground Water	07/05/12 10:09	07/05/12 14:43
660-48712-1	TH-72 WACS# 27753	Ground Water	07/06/12 10:23	07/06/12 14:20
660-48712-2	TH-28A WACS# 19862	Ground Water	07/06/12 09:29	07/06/12 14:20
660-48712-3	TH-19 WACS# 821	Ground Water	07/06/12 11:24	07/06/12 14:20
660-48712-4	TH-58 WACS# 1571	Ground Water	07/06/12 10:50	07/06/12 14:20
660-48712-5	SUP 2 WACS# 27756	Ground Water	07/06/12 11:56	07/06/12 14:20
660-48712-6	SUP 1 WACS# 27755	Ground Water	07/06/12 12:23	07/06/12 14:20
660-48712-7	TH-73 WACS# 27754	Ground Water	07/06/12 10:01	07/06/12 14:20

1100-48683

**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: Ari Clayton REP. OF SOLID WASTE DEPT. 6.29.12 2:30LOCATION: TH-74 WACS# 28307 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2 INCH:TOTAL DEPTH OF WELL: 17.00 Ft.DEPTH TO WATER: 9.58 Ft.LENGTH OF WATER COL: 7.42 Ft.VOLUME TO PURGE: 1.19 Gal.PURGE STARTED: 7-5-12 10:25PURGE RATE: 0.20 GPM.

DATE | TIME

PURGE ENDED: 7-5-12 10:37ACT. VOL. PURGED: 2.40 GAL.Draw Down: 10.30

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:33	23.16	558	5.09	0.40	12.4 =
AB JC	10:35	23.10	521	5.02	0.33	7.91
AB JC	10:37	23.09	495	4.99	0.32	5.33

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

7-5-12 10:37

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 ☒SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Ari Clayton REP. OF SOLID WASTE DEPT. 7-5-12 2:43ACCEPTED BY: ST. Ruffo REP. OF CONTRACT LAB. 7-5-12 2:43COMMENT'S: W02# 0064

**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: Air Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30

LOCATION: TH-75 WACS# 28308 SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION W.A. Balloon LC ☐

WELL DIAMETER: 2 INCH:

TOTAL DEPTH OF WELL: 17.00 Ft.

DEPTH TO WATER: 7.46 Ft.

LENGTH OF WATER COL: 9.54 Ft.

VOLUME TO PURGE: 1.53 Gal.

PURGE STARTED: 7-5-12 | 10:50

PURGE RATE: 0.20 GPM.

PURGE ENDED: 7-5-12 | 11:01

ACT. VOL. PURGED: 2.20 GAL.

Draw Down: 7.70

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB LC	10:57	23.52	344	5.34	0.31	6.51 =
AB LC	10:59	23.52	344	5.34	0.25	6.49
AB LC	11:01	23.52	344	5.35	0.22	6.48

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

**COLLECTED
DATE | TIME**

7-5-12 | 11:01

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: Air Clayton REP. OF SOLID WASTE DEPT. 7-5-12 | 2:43

ACCEPTED BY: John Kelly REP. OF CONTRACT LAB. 7-5-12 | 2:43

COMMENT'S: WO #0064

4.8 CU-07

**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: Jim Clayton REP. OF SOLID WASTE DEPT. 6-29-12 | 2:30

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

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

WELL DIAMETER: 2.00 INCH:

TOTAL DEPTH OF WELL: 46.19 Ft.

DEPTH TO WATER: 23.70 Ft.

LENGTH OF WATER COL: 22.43 Ft.

VOLUME TO PURGE: 3.59 Gal.

PURGE STARTED: 7-5-12 | 12:36

PURGE RATE: 0.25 GPM.

PURGE ENDED: 7-5-12 | 12:54

ACT. VOL. PURGED: _____ GAL.

Draw Down: 24.00

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:50	23.51	458	3.83	0.17	3.02 =
AB JC	12:52	23.50	490	3.87	0.16	2.04
AB JC	12:54	23.50	462	3.94	0.15	1.83

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

**COLLECTED
DATE | TIME**

7-5-12 | 12:54

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: Jim Clayton REP. OF SOLID WASTE DEPT. 7-5-12 | 2:43

ACCEPTED BY: John Kelly REP. OF CONTRACT LAB. 7-5-12 | 2:43

COMMENTS: WO # 0064 H₂S

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30LOCATION: TH-42 WACS# 823 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 164.00 Ft.DEPTH TO WATER: 82.22 Ft.LENGTH OF WATER COL: 81.78 Ft.VOLUME TO PURGE: 13.08 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

7-5-12 | 11:520.70 GPM.

DATE | TIME

7-5-12 | 12:1415.40 GAL.90.45

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:10	24.03	455	6.36	0.91	9.42 =
AB JC	12:12	24.04	455	6.43	0.90	7.19
AB JC	12:14	24.04	454	6.50	0.84	7.14

SAMPLE CONTAINERS

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

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-5-12 | 12:14

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 ☒SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Jim ClaytonACCEPTED BY: St. Kelly

DATE | TIME

REP. OF SOLID WASTE DEPT. 7-5-12 | 2:43REP. OF CONTRACT LAB. 7-5-12 | 2:43COMMENTS: WO # 0064HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM4.8 cu-07

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: Jim Clayton REP. OF SOLID WASTE DEPT. 6-29-12 2:30

LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION : ☒ A. Balloon ☒ Je ☐ _____

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

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

13

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-5-12 —

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: Jim Clayton REP. OF SOLID WASTE DEPT. 7-5-12 2:43

ACCEPTED BY: JE Rensy REP. OF CONTRACT LAB. 7-5-12 2:43

COMMENT'S: WOT 0064

4.8 CU-07

**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: Jim Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30

LOCATION: BLANK, EQUIPMENT SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☐ _____

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

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

13

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
7.5.12 | 9:25

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: Jim Clayton REP. OF SOLID WASTE DEPT. DATE | TIME
7.5.12 | 2:43

ACCEPTED BY: Jim Clayton REP. OF CONTRACT LAB. 7.5.12 | 2:43

COMMENT'S: wo # OOG#

4.8 CV-07

**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: Jim Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30

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

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

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 165.90 Ft.

DEPTH TO WATER: 99.77 Ft.

LENGTH OF WATER COL: 66.13 Ft.

VOLUME TO PURGE: 10.58 Gal.

PURGE STARTED: 7-5-12 | 9:32

PURGE RATE: 1.00 GPM.

PURGE ENDED: 7-5-12 | 9:46

ACT. VOL. PURGED: 14 GAL.

Draw Down: 99.75

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:42	23.73	399	7.39	0.73	0.20 =
AB JC	9:44	23.75	395	7.41	0.63	0.15
AB JC	9:46	23.78	389	7.39	0.60	0.18

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-5-12 | 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:

RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 7-5-12 | 2:43

ACCEPTED BY: Steve Ruff REP. OF CONTRACT LAB. 7-6-12 | 2:43

COMMENT'S: WO # 0064

4.8 cuoz

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Aim Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30LOCATION: TH-57 WACS# 1570 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 26.83 Ft.DEPTH TO WATER: 18.46 Ft.LENGTH OF WATER COL: 8.37 Ft.VOLUME TO PURGE: 1.34 Gal.PURGE STARTED: 7-5-12 | 10:00PURGE RATE: 0.25 GPM.

DATE | TIME

PURGE ENDED: 7-5-12 | 10:09ACT. VOL. PURGED: 2.25 GAL.Draw Down: 18.72

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:05	24.30	289	5.15	0.54	1.77 =
AB JC	10:07	24.28	280	5.12	0.37	1.50
AB JC	10:09	24.28	274	5.11	0.27	1.12

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	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	

13

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-5-12 | 10:09

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 ☒ SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Aim Clayton REP. OF SOLID WASTE DEPT. 7-5-12 | 2:43ACCEPTED BY: Steve Kelly REP. OF CONTRACT LAB. 7-5-12 | 2:43COMMENT'S: WO# 0064 H₂SHILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

4.8 cu-07

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

PRECLEANED SAMPLE CONTAINERS:

660-48712

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

Jim Clayton

REP. OF SOLID WASTE DEPT. 6.29.12 2:30

LOCATION: TH-72 WACS# 27753

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JC ☐

WELL DIAMETER: 2 INCH:

TOTAL DEPTH OF WELL: 190.00 Ft.

DEPTH TO WATER: 103.99 Ft.

LENGTH OF WATER COL: 86.01 Ft.

VOLUME TO PURGE: 13.76 Gal.

PURGE STARTED: 7-6-12 9:45

PURGE RATE: 0.40 GPM.

PURGE ENDED: 7-6-12 10:23

ACT. VOL. PURGED: 15.20 GAL.

Draw Down: 103.73

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:19	23.51	904	6.51	0.25	0.21
AB JC	10:21	23.51	902	6.52	0.23	0.19
AB JC	11:23	23.52	900	6.54	0.23	0.40

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens

COLLECTED

DATE | TIME

7-6-12 10:23

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:

Jim Clayton

REP. OF SOLID WASTE DEPT. 7-6-12 2:20

ACCEPTED BY:

Jim Clayton

REP. OF CONTRACT LAB. 7-6-12 2:20

COMMENTS: W0#0064

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

660-98712

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

Jim Clayton

REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30

LOCATION: TH-28A WACS# 19862

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JC ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 34.30 Ft.

DEPTH TO WATER: 28.16 Ft.

LENGTH OF WATER COL: 6.14 Ft.

VOLUME TO PURGE: 0.98 Gal.

PURGE STARTED:

DATE | TIME

7-6-12 9:20

PURGE RATE:

0.28 GPM.

PURGE ENDED:

DATE | TIME

7-6-12 9:29

ACT. VOL. PURGED:

1.80 GAL.

Draw Down:

28.95

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:25	24.79	341	5.32	0.94	4.56 =
AB JC	9:27	24.78	348	5.28	0.63	4.06
AB JC	9:29	24.77	344	5.25	0.49	3.53

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-6-12 9:29

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:

Jim Clayton

REP. OF SOLID WASTE DEPT.

DATE | TIME

7-6-12 2:20

ACCEPTED BY:

John

REP. OF CONTRACT LAB.

7-6-12 2:20

COMMENT'S: WO # 0064

4.6 cu-07

13

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

660-48712

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

Lin Clayton

REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30

LOCATION: TH-19 WACS# 821

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JC ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 153.60 Ft.

DEPTH TO WATER: 103.90 Ft.

LENGTH OF WATER COL: 49.70 Ft.

VOLUME TO PURGE: 7.95 Gal.

PURGE STARTED:

DATE | TIME

7-6-12 | 11:13

PURGE RATE:

1.00 GPM.

PURGE ENDED:

DATE | TIME

7-6-12 | 11:24

ACT. VOL. PURGED:

11.00 GAL.

Draw Down:

104.90

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:20	23.63	305	6.71	0.71	1.30 =
AB JC	11:22	23.44	304	6.70	0.68	0.92
AB JC	11:24	23.49	304	6.69	0.63	0.42

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-6-12 | 11:24

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:

Lin Clayton

REP. OF SOLID WASTE DEPT.

DATE | TIME

7-6-12 | 2:20

ACCEPTED BY:

REP. OF CONTRACT LAB.

7-6-12 | 2:20

COMMENT'S: WO # 0061f

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

4.6 CU07

660-48712

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30LOCATION: TH-58 WACS# 1571 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 32.92 Ft.DEPTH TO WATER: 27.40 Ft.LENGTH OF WATER COL: 5.52 Ft.VOLUME TO PURGE: 0.88 Gal.PURGE STARTED: 7-6-12 | 10:39PURGE RATE: 0.15 GPM.

DATE | TIME

PURGE ENDED: 7-6-12 | 10:50ACT. VOL. PURGED: 1.65 GAL.Draw Down: 27.72

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:44	24.48	520	5.78	1.08	2.90 =
AB JC	10:48	24.45	548	5.74	0.78	2.53
AB JC	10:50	24.35	527	5.72	0.62	2.34

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-6-12 | 10:50

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 ☒ SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 7-6-12 | 2:20ACCEPTED BY: Fahr REP. OF CONTRACT LAB. 7-6-12 | 2:20COMMENTS: W01# 00604

660-48712

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: Jim Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30LOCATION: SUP 2 WACS# 27756 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 7-6-12 TIME 11:37ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:52	24.62	275	7.33	0.09	0.03 =
AB JC	11:54	24.66	275	7.34	0.08	0.04
AB JC	11:56	24.69	275	7.35	0.08	0.07

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

7-6-12 | 11:56

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 ☒ SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 7-6-12 | 2:20ACCEPTED BY: [Signature] REP. OF CONTRACT LAB. 7-6-12 | 2:20COMMENT'S: WQ# 0064 H₂S

4.6 CO-07

660-48712

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: Jim Clayton REP. OF SOLID WASTE DEPT. 6-29-12 | 2:30

LOCATION: SUP 1 WACS# 27755 SAMPLE MATRIX: WATER OTHER MATRIX: _____

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

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 7-6-12 TIME 12:04
 ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:19	24.59	243	7.24	0.07	0.04 =
AB JC	12:21	24.60	243	7.27	0.07	0.00
AB JC	12:23	24.61	243	7.27	0.07	0.02

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
 DATE | TIME
7-6-12 | 12:23

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. 7-6-12 | 2:20

ACCEPTED BY: [Signature] REP. OF CONTRACT LAB. 7-6-12 | 2:20

COMMENT'S: WO # 0064 1123

4.6 CW-07

660-48712

**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: Ann Clayton REP. OF SOLID WASTE DEPT. 6.29.12 | 2:30LOCATION: TH-73 WACS#27754 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION W/A. Balloon ☒ LC ☐WELL DIAMETER: 2 INCH:TOTAL DEPTH OF WELL: 43.40 Ft.DEPTH TO WATER: 91.82 Ft.LENGTH OF WATER COL: 11.58 Ft.VOLUME TO PURGE: 1.85 Gal.PURGE STARTED: 7-6-12 | 9:50PURGE RATE: 0.25 GPM.

DATE | TIME

PURGE ENDED: 7-6-12 | 10:01ACT. VOL. PURGED: 2.25 GAL.Draw Down: 32.42

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	12 9:57	24.44	238	4.88	0.40	12.4 =
AB	12 9:59	24.43	234	4.82	0.36	9.42
AB	12 10:01	24.43	232	4.77	0.31	9.00

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:Colors and Sheens #

--COLLECTED

DATE | TIME

7-6-12 | 10:01

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 ☒ SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Ann Clayton REP. OF SOLID WASTE DEPT. 7-6-12 | 2:20ACCEPTED BY: [Signature] REP. OF CONTRACT LAB. 7-6-12 | 2:20COMMENT'S: W0 # 0064

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48683-1

Login Number: 48683

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

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	
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: 660-48683-1

Login Number: 48712

List Source: TestAmerica Tampa

List Number: 1

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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	
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.	N/A	