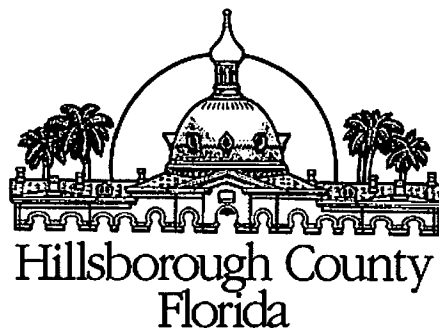


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November 10, 2011

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

**RE: Southeast County Landfill
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 14**

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of the continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address any potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. The monthly sampling event was conducted on October 5-7, 2011, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples of groundwater were collected from nine (9) on-site groundwater monitoring wells and two (2) on-site limited use potable supply wells. Samples for the groundwater monitoring wells and the on-site supply wells were analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters.

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

pH

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values range in value from 4.63 to 5.72 pH units. The pH values within the surficial aquifer at the SCLF have historically been below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in the four (4) upper Floridan monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and continue to be consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. The turbidity value in P-18S could not be reduced to below 20 NTU, therefore, a groundwater sample was again collected from TH-30. As previously discussed, the soils encountered during the installation of P-18S were primarily clays and clayey sands, which are known to exhibit turbid groundwater conditions. The turbidity value recorded in TH-42 was 11.5 NTU.

Conductivity

The conductivity values are relatively low and have remained consistent with historical values associated with the SCLF, except for TH-58. This well has exhibited elevated conductivity values over the past year, and it appears that an upward trend began in November of 2010. However, the values have shown significant upward and downward swings over the past year. The conductivity value observed in October was 1416 uhmos/cm, which represents an increase from the September sampling event. The conductivity values in this well will continue to be evaluated.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring well, TH-58, exhibited a TDS concentration of 1,100 mg/l, which is lower than the previous month's result of 1,200 mg/l. However, this value continues to exceed the SDWS of 500 mg/l. Over the period of record, TDS values began to trend upward during the June sampling event, but the decrease in value over the last two months may be indicative of water quality changes associated with the fluids introduced into the surficial aquifer during the sinkhole grouting activities.

Chloride

Surficial aquifer groundwater monitoring well, TH-58, exhibited chloride at a concentration of 400 mg/l, which is lower than the previous month's result of 570 mg/l. However, this value continues to exceed the SDWS of 250 mg/l. Over the period of record, chloride values began to trend upward during the June sampling event, but the decrease in values over the last two months may be indicative of changes in that trend. The chloride values in all the other wells are well below the SDWS.

Arsenic

The arsenic observed in TH-58 is 0.028 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present above the PDWS in TH-58 for several years, and the concentration has remained consistent while other parameters have exhibited changes. The County has maintained the position that the arsenic is naturally occurring within the soils surrounding the well and is likely being mobilized in the anaerobic environment below the lined landfill. Although changes in water quality have been observed in TH-58, the arsenic values have remained very stable. This observation supports the position that the arsenic is likely not attributable to the landfill or the sinkhole.

Iron

Iron concentrations in four (4) surficial aquifer wells and one upper Floridan well were observed above the SDWS of 0.3 mg/l. The concentrations of iron ranged from below the detection limit (BDL) to 9.1 mg/l. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are likely naturally occurring and/or the result of past strip mining activities. The iron value observed in TH-42 at 0.37 mg/l may be naturally occurring in the weathered limestone and clay strata.

Conclusions

Water quality observed in the groundwater samples collected as part of this sampling event remains consistent with the historical data set for the site, with the exception of the changes observed in the surficial aquifer monitoring well TH-58. The water quality in this well, and specifically the values for conductivity, total dissolved solids and chloride, indicate impacts from the sinkhole and/or the grouting activities. The County will continue to look for changes in water quality at all the wells sampled, but a focused evaluation of water quality in TH-58 will continue. The observed impacts remain in close proximity to the sinkhole within the surficial aquifer and are not present within the deeper upper Floridan aquifer. The two on-site supply wells continue to exhibit good water quality and no changes have been observed over the period of record.

Mr. John Morris, P.G.
November 10, 2011
Page 4

Recommendations

The County recommends continuation of the IAMP sampling program on the approved monthly schedule, and associated evaluation of water quality in the nine monitoring wells and two on-site supply wells. The County will continue to provide the IAMP reports within the specified time frames, and evaluate all available data as part of the ongoing assessment activities.

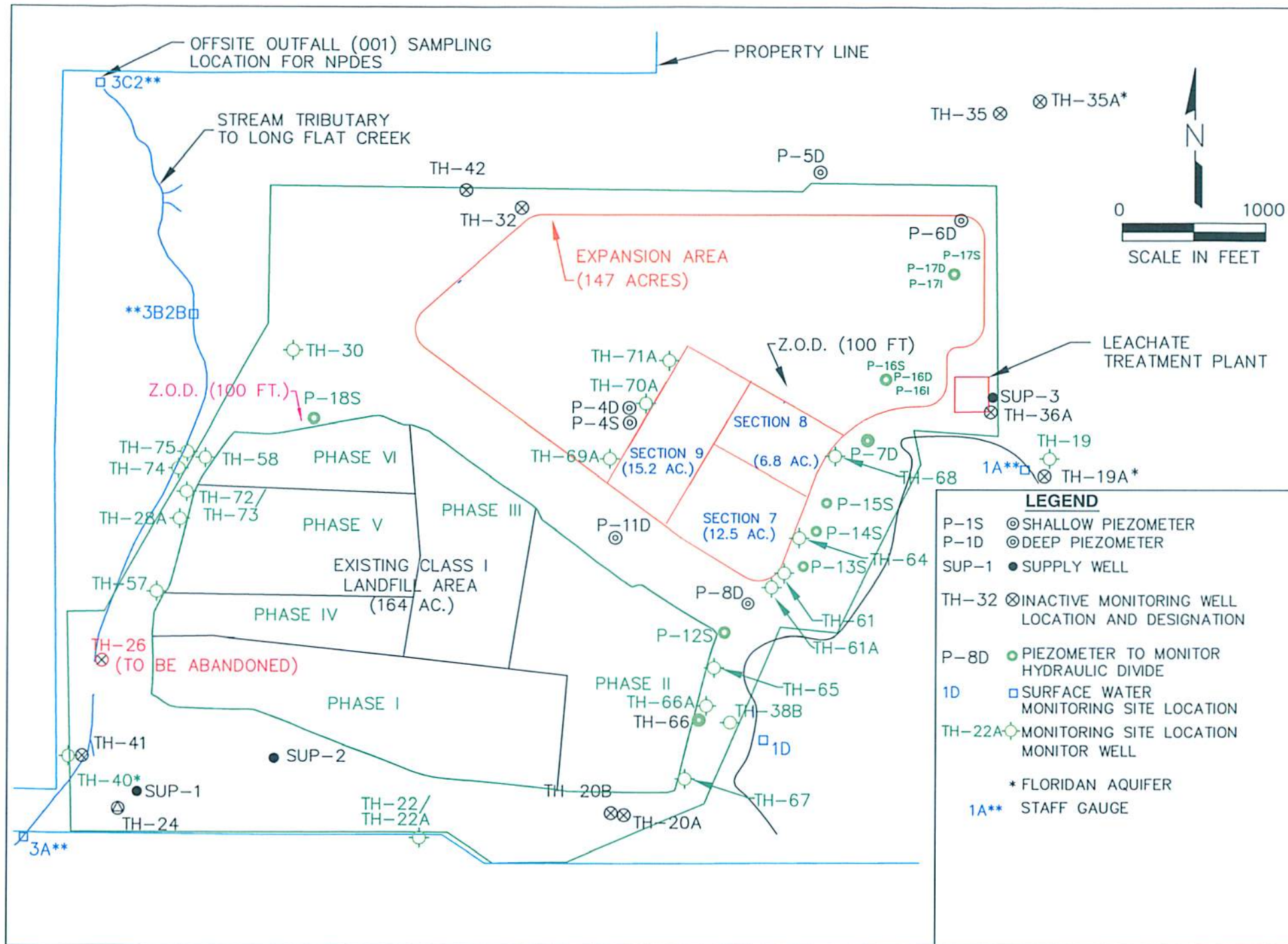
Enclosed for your review please find a site location map depicting the on-site wells, the water quality data summary table, a groundwater elevation data table and associated contour flow diagram, and the complete analytical data report from our contracted laboratory, Test America, Inc. Should you have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

Respectfully submitted,



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

xc: Paul Vanderploog, Director, Public Utilities Department
Patricia Berry, Public Utilities Department
Pamela Greene, Public Utilities Department
Larry Ruiz, Public Utilities Department
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Steve Morgan, FDEP, Southwest District
Andy Schipfer, EPC
Ernest Ely, WM
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services



Southeast County Landfill
Groundwater Monitoring Site Map – October 2011

Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
October 5-7, 2011

GENERAL (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
PARAMETERS												
conductivity (umhos/cm) (field)	335	195	231	291	421	144	1416	471	345	322	331	NS
dissolved oxygen (mg/l) (field)	0.44	1.26	0.17	0.51	0.25	0.21	0.67	1.69	0.89	0.18	0.45	NS
pH (field)	7.33	5.17	4.63	7.58	7.26	5.06	5.72	7.31	5.20	7.47	7.59	(6.5 - 8.5)**
temperature (°C) (field)	23.46	26.66	23.46	23.51	23.93	26.76	26.01	23.13	25.48	24.45	25.84	NS
turbidity (NTU) (field)	0.7	3.4	3.4	0.8	11.5	2.1	5.2	1.1	12	0.0	0.0	NS
total dissolved solids (mg/l)	210	130	160	190	230	110	1100	290	220	190	210	500**
chloride (mg/l)	7.3	46	70	6.5	15	38	400	31	96	9	11	250**
ammonia nitrogen (mg/l as N)	0.24	1	0.89	0.33	0.25	0.8	0.45	0.3	1.8	0.16	0.15	2.8***
Metals: (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	0.028	BDL	BDL	BDL	BDL	0.01*
iron	BDL	3	0.25	BDL	0.37	0.5	4.5	0.14 i	9.1	BDL	BDL	0.3**
sodium	14	18	22	16	16	14	96	34	33	9	8.9	160*
Note: Ref. Groundwater Guidance Concentrations, FDEP 2007 MCL=MAXIMUM CONTAMINANT LEVEL BDL=BELOW DETECTION LIMIT ND=NO DATA COLLECTED NTU=NEPHELOMETRIC TURBIDITY UNITS i = reported value between the laboratory method detection limit and the laboratory practical quantitation limit *=DENOTES PRIMARY DRINKING WATER STANDARD **=DENOTES SECONDARY DRINKING WATER STANDARD ***=DENOTES FLORIDA GUIDANCE CONCENTRATION 5.17 : EXCEEDS PRIMARY OR SECONDARY DRINKING WATER ug/l=MICROGRAMS PER LITER mg/l=MILLIGRAMS PER LITER NS=NO STANDARD (-) indicates that the sample was not analyzed for this parameter												

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

October 5, 2011

Measuring Point I.D.	T.O.C. Elevations (NGVD)	10/5/2011 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	21.52	119.26	11:40 AM
P-4S	140.95	Dry	Dry	11:39 AM
P-5D	151.94	Dry	Dry	11:07 AM
P-6D-A	148.01	25.72	122.29	11:14 AM
P-7D	138.92	17.06	121.86	11:56 AM
P-8D	138.34	17.69	120.65	12:08 PM
P-11D	138.02	16.85	121.17	11:49 AM
P-12S	134.97	13.70	121.27	12:09 PM
P-13S	140.21	18.39	121.82	12:04 PM
P-14S	138.56	16.55	122.01	12:01 PM
P-15S	139.19	17.32	121.87	11:59 AM
P-16S	143.38	16.10	127.28	10:55 AM
P-16I	144.15	23.54	120.61	10:54 AM
P-16D	143.84	23.25	120.59	10:53 AM
P-17S	137.35	13.50	123.85	11:02 AM
P-17I	137.32	15.69	121.63	11:01 AM
P-17D	137.22	15.84	121.38	10:59 AM
P-18S	129.86	18.25	111.61	10:15 AM
P-19	133.36	11.25	122.11	11:11 AM
P-20	132.38	11.79	120.59	11:19 AM
P-21	122.79	2.56	120.23	11:29 AM
P-22	128.35	8.15	120.20	11:32 AM
P-23	143.13	22.71	120.42	11:23 AM
TH-19*	130.27	94.58	35.69	10:47 AM
TH-20A	131.86	9.49	122.37	12:22 PM
TH-20B	132.57	10.40	122.17	12:29 PM
TH-22	128.82	4.81	124.01	9:08 AM
TH-22A	129.27	5.44	123.83	9:09 AM
TH-24A	128.23	4.88	123.35	9:14 AM
TH-28A	131.10	28.11	102.99	10:05 AM
TH-30	128.88	23.97	104.91	9:56 AM
TH-32	129.90	14.00	115.90	10:21 AM
TH-35	145.98	28.14	117.84	10:38 AM
TH-36A	152.70	32.80	119.90	10:50 AM
TH-38A	130.68	10.16	120.52	12:18 PM
TH-38B	131.81	10.91	120.90	12:17 PM
TH-40*	124.99	91.54	33.45	9:24 AM
TH-41*	125.00	94.49	30.51	9:23 AM
TH-42*	116.74	71.42	45.32	10:24 AM
TH-57	128.36	18.96	109.40	9:28 AM
TH-58	127.88	27.77	100.11	9:59 AM
TH-61	138.73	16.89	121.84	12:06 PM
TH-61A	139.45	17.40	122.05	12:07 PM
TH-64	139.64	16.84	122.80	12:02 PM
TH-65	135.40	14.18	121.22	12:12 PM
TH-66	130.58	8.80	121.78	12:15 PM
TH-66A	130.66	9.25	121.41	12:14 PM
TH-67	129.51	6.12	123.39	12:19 PM
TH-68	140.01	16.46	123.55	11:59 AM
TH-69A	144.97	25.06	119.91	11:45 AM
TH-70A	146.63	26.26	120.37	11:43 AM
TH-71A	146.95	25.86	121.09	11:36 AM
TH-72	130.96	99.45	31.51	10:02 AM
TH-73	131.07	31.16	99.91	10:03 AM
TH-74	ND	9.61	ND	9:33 AM
TH-75	ND	7.61	ND	9:36 AM
SW-3A	3.0'=125.53'	0.30	122.83	9:01 AM
SW-3B2B	3.0'=97.97'	1.52	96.94	9:43 AM
SW-3C2	6.0'=92.33'	1.28	87.61	9:48 AM
Mine Cut #1	4.0'=122.14'	2.22	120.36	11:53 AM
Mine Cut #2	6.0'=123.47'	2.70	120.17	10:43 AM
Mine Cut #3	4.0'=112.27'	1.80	110.07	10:26 AM
Mine Cut #4	5.0'=97.54'	1.42	93.96	10:31 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				

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: 660-43937-1
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:
10/20/2011 04:13:16 PM

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

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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.



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Definitions/Glossary

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

TestAmerica Job ID: 660-43937-1

3

Qualifiers

Metals

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

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.

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
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: 660-43937-1

Job ID: 660-43937-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-43937-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 116328 were 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 116006 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 116433 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-43937-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.47				SU	1		Field Sampling	Total/NA
Field Temperature	24.45				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	322				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	9.0		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	9.0		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.16		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA

5

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-43937-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.59				SU	1		Field Sampling	Total/NA
Field Temperature	25.84				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.45				mg/L	1		Field Sampling	Total/NA
Specific Conductance	331				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.9		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	11		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.15		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	210		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-43966-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.20				SU	1		Field Sampling	Total/NA
Field Temperature	25.48				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.89				mg/L	1		Field Sampling	Total/NA
Specific Conductance	345				umhos/cm	1		Field Sampling	Total/NA
Turbidity	12.0				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	9100		200	50	ug/L	1		6010B	Total Recovera
Sodium	33		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	96		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.8		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-43966-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.72				SU	1		Field Sampling	Total/NA
Field Temperature	26.01				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.67				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1416				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.2				NTU	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-43937-1

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

Lab Sample ID: 660-43966-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	28		10	4.0	ug/L	1			6010B	Total Recovera
Iron	4500		200	50	ug/L	1			6010B	Total Recovera
Sodium	96		0.50	0.31	mg/L	1			6010B	Total Recovera
Chloride	400		5.0	2.0	mg/L	10			300.0	Total/NA
Ammonia as N	0.45	J3	0.020	0.010	mg/L	1			350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Total Dissolved Solids	1100		50	50	mg/L	1			SM 2540C	Total/NA

5

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-43966-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil	Fac	D	Method	Prep Type
Field pH	4.63				SU	1			Field Sampling	Total/NA
Field Temperature	23.46				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.17				mg/L	1			Field Sampling	Total/NA
Specific Conductance	231				umhos/cm	1			Field Sampling	Total/NA
Turbidity	3.4				NTU	1			Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	250		200	50	ug/L	1			6010B	Total Recovera
Sodium	22		0.50	0.31	mg/L	1			6010B	Total Recovera
Chloride	70		1.0	0.40	mg/L	2			300.0	Total/NA
Ammonia as N	0.89		0.020	0.010	mg/L	1			350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Total Dissolved Solids	160		5.0	5.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-43966-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil	Fac	D	Method	Prep Type
Field pH	5.06				SU	1			Field Sampling	Total/NA
Field Temperature	26.76				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.21				mg/L	1			Field Sampling	Total/NA
Specific Conductance	144				umhos/cm	1			Field Sampling	Total/NA
Turbidity	2.1				NTU	1			Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	500		200	50	ug/L	1			6010B	Total Recovera
Sodium	14		0.50	0.31	mg/L	1			6010B	Total Recovera
Chloride	38	J3	0.50	0.20	mg/L	1			300.0	Total/NA
Ammonia as N	0.80		0.020	0.010	mg/L	1			350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Total Dissolved Solids	110		5.0	5.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-43966-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil	Fac	D	Method	Prep Type
Field pH	5.17				SU	1			Field Sampling	Total/NA
Field Temperature	26.66				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.26				mg/L	1			Field Sampling	Total/NA
Specific Conductance	195				umhos/cm	1			Field Sampling	Total/NA
Turbidity	3.4				NTU	1			Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	3000		200	50	ug/L	1			6010B	Total Recovera
Sodium	18		0.50	0.31	mg/L	1			6010B	Total Recovera
Chloride	46		0.50	0.20	mg/L	1			300.0	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-28A WACS# 19862 (Continued)

Lab Sample ID: 660-43966-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	1.0		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA

5

Client Sample ID: Duplicate 43966

Lab Sample ID: 660-43966-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1		6010B	Total Recovera
Iron	4500		200	50	ug/L	1		6010B	Total Recovera
Sodium	95		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	390		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	0.47		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	940		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-43986-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	23.13				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.69				mg/L	1		Field Sampling	Total/NA
Specific Conductance	471				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.1				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	140		200	50	ug/L	1		6010B	Total Recovera
Sodium	34		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	31		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.30		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	290		25	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-43986-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.26				SU	1		Field Sampling	Total/NA
Field Temperature	23.93				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Specific Conductance	421				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.5				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	370		200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	15		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.25		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	230		25	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS# 27752

Lab Sample ID: 660-43986-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.58				SU	1		Field Sampling	Total/NA
Field Temperature	23.51				Degrees C	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-40 WACS# 27752 (Continued)

Lab Sample ID: 660-43986-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.51				mg/L	1		Field Sampling	Total/NA
Specific Conductance	291				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	6.5		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.33		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA

5

Client Sample ID: TH-19 WACS# 822

Lab Sample ID: 660-43986-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	23.46				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.44				mg/L	1		Field Sampling	Total/NA
Specific Conductance	335				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.7				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.3		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.24		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	210		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-43937-1

Date Collected: 10/05/11 13:10

Matrix: Water

Date Received: 10/05/11 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 08:57	1
Iron	50	U	200	50	ug/L		10/13/11 09:30	10/14/11 08:57	1
Sodium	9.0		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 08:57	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		0.50	0.20	mg/L			10/18/11 13:27	1
Ammonia as N	0.16		0.020	0.010	mg/L			10/07/11 12:28	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			10/07/11 14:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.47				SU			10/05/11 13:10	1
Field Temperature	24.45				Degrees C			10/05/11 13:10	1
Oxygen, Dissolved	0.18				mg/L			10/05/11 13:10	1
Specific Conductance	322				umhos/cm			10/05/11 13:10	1
Turbidity	0.0				NTU			10/05/11 13:10	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-43937-2

Date Collected: 10/05/11 12:44

Matrix: Water

Date Received: 10/05/11 15:00

Method: 6010B - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:01	1
Iron	50	U	200	50	ug/L		10/13/11 09:30	10/14/11 09:01	1
Sodium	8.9		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:01	1

6

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		0.50	0.20	mg/L			10/18/11 13:43	1
Ammonia as N	0.15		0.020	0.010	mg/L			10/07/11 12:29	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/07/11 14:39	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.59				SU			10/05/11 12:44	1
Field Temperature	25.84				Degrees C			10/05/11 12:44	1
Oxygen, Dissolved	0.45				mg/L			10/05/11 12:44	1
Specific Conductance	331				umhos/cm			10/05/11 12:44	1
Turbidity	0.0				NTU			10/05/11 12:44	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-43966-1

Date Collected: 10/06/11 10:49

Matrix: Water

Date Received: 10/06/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:11	1
Iron	9100		200	50	ug/L		10/13/11 09:30	10/14/11 09:11	1
Sodium	33		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:11	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96		1.0	0.40	mg/L			10/14/11 17:23	2
Ammonia as N	1.8		0.020	0.010	mg/L			10/07/11 11:42	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			10/10/11 14:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.20				SU			10/06/11 10:49	1
Field Temperature	25.48				Degrees C			10/06/11 10:49	1
Oxygen, Dissolved	0.89				mg/L			10/06/11 10:49	1
Specific Conductance	345				umhos/cm			10/06/11 10:49	1
Turbidity	12.0				NTU			10/06/11 10:49	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-43966-2

Date Collected: 10/06/11 10:21

Matrix: Water

Date Received: 10/06/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		10	4.0	ug/L		10/13/11 09:30	10/14/11 09:14	1
Iron	4500		200	50	ug/L		10/13/11 09:30	10/14/11 09:14	1
Sodium	96		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:14	1



General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		5.0	2.0	mg/L			10/14/11 17:39	10
Ammonia as N	0.45	J3	0.020	0.010	mg/L			10/07/11 11:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		50	50	mg/L			10/10/11 14:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.72				SU			10/06/11 10:21	1
Field Temperature	26.01				Degrees C			10/06/11 10:21	1
Oxygen, Dissolved	0.67				mg/L			10/06/11 10:21	1
Specific Conductance	1416				umhos/cm			10/06/11 10:21	1
Turbidity	5.2				NTU			10/06/11 10:21	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-43966-3

Date Collected: 10/06/11 09:58

Matrix: Water

Date Received: 10/06/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:17	1
Iron	250		200	50	ug/L		10/13/11 09:30	10/14/11 09:17	1
Sodium	22		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:17	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70		1.0	0.40	mg/L			10/14/11 17:55	2
Ammonia as N	0.89		0.020	0.010	mg/L			10/07/11 12:03	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	5.0	mg/L			10/10/11 14:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.63				SU			10/06/11 09:58	1
Field Temperature	23.46				Degrees C			10/06/11 09:58	1
Oxygen, Dissolved	0.17				mg/L			10/06/11 09:58	1
Specific Conductance	231				umhos/cm			10/06/11 09:58	1
Turbidity	3.4				NTU			10/06/11 09:58	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-43966-4

Date Collected: 10/06/11 11:27

Matrix: Water

Date Received: 10/06/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:21	1
Iron	500		200	50	ug/L		10/13/11 09:30	10/14/11 09:21	1
Sodium	14		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:21	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38	J3	0.50	0.20	mg/L			10/14/11 18:10	1
Ammonia as N	0.80		0.020	0.010	mg/L			10/07/11 12:04	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			10/10/11 14:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.06				SU			10/06/11 11:27	1
Field Temperature	26.76				Degrees C			10/06/11 11:27	1
Oxygen, Dissolved	0.21				mg/L			10/06/11 11:27	1
Specific Conductance	144				umhos/cm			10/06/11 11:27	1
Turbidity	2.1				NTU			10/06/11 11:27	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-43966-5

Date Collected: 10/06/11 11:09

Matrix: Water

Date Received: 10/06/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:24	1
Iron	3000		200	50	ug/L		10/13/11 09:30	10/14/11 09:24	1
Sodium	18		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:24	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		0.50	0.20	mg/L			10/14/11 18:26	1
Ammonia as N	1.0		0.020	0.010	mg/L			10/07/11 12:05	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	5.0	mg/L			10/10/11 14:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.17				SU			10/06/11 11:09	1
Field Temperature	26.66				Degrees C			10/06/11 11:09	1
Oxygen, Dissolved	1.26				mg/L			10/06/11 11:09	1
Specific Conductance	195				umhos/cm			10/06/11 11:09	1
Turbidity	3.4				NTU			10/06/11 11:09	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: Duplicate 43966

Lab Sample ID: 660-43966-6

Date Collected: 10/06/11 00:00

Matrix: Water

Date Received: 10/06/11 13:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		10	4.0	ug/L		10/13/11 09:30	10/14/11 09:28	1
Iron	4500		200	50	ug/L		10/13/11 09:30	10/14/11 09:28	1
Sodium	95		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		5.0	2.0	mg/L			10/18/11 13:59	10
Ammonia as N	0.47		0.020	0.010	mg/L			10/07/11 12:06	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		50	50	mg/L			10/10/11 14:43	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-43986-1

Date Collected: 10/07/11 11:44

Matrix: Water

Date Received: 10/07/11 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 09:50	1
Iron	140	I	200	50	ug/L		10/12/11 09:06	10/13/11 09:50	1
Sodium	34		0.50	0.31	mg/L		10/12/11 09:06	10/13/11 09:50	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		0.50	0.20	mg/L			10/12/11 14:34	1
Ammonia as N	0.30		0.020	0.010	mg/L			10/18/11 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		25	25	mg/L			10/10/11 14:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.31				SU			10/07/11 11:44	1
Field Temperature	23.13				Degrees C			10/07/11 11:44	1
Oxygen, Dissolved	1.69				mg/L			10/07/11 11:44	1
Specific Conductance	471				umhos/cm			10/07/11 11:44	1
Turbidity	1.1				NTU			10/07/11 11:44	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-43986-2

Date Collected: 10/07/11 10:55

Matrix: Water

Date Received: 10/07/11 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 10:03	1
Iron	370		200	50	ug/L		10/12/11 09:06	10/13/11 10:03	1
Sodium	16		0.50	0.31	mg/L		10/12/11 09:06	10/13/11 10:03	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		0.50	0.20	mg/L			10/12/11 14:50	1
Ammonia as N	0.25		0.020	0.010	mg/L			10/18/11 14:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		25	25	mg/L			10/10/11 14:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.26				SU			10/07/11 10:55	1
Field Temperature	23.93				Degrees C			10/07/11 10:55	1
Oxygen, Dissolved	0.26				mg/L			10/07/11 10:55	1
Specific Conductance	421				umhos/cm			10/07/11 10:55	1
Turbidity	11.5				NTU			10/07/11 10:55	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-40 WACS# 27752

Lab Sample ID: 660-43986-3

Date Collected: 10/07/11 09:29

Matrix: Water

Date Received: 10/07/11 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 10:06	1
Iron	50	U	200	50	ug/L		10/12/11 09:06	10/13/11 10:06	1
Sodium	16		0.50	0.31	mg/L		10/12/11 09:06	10/13/11 10:06	1



General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		0.50	0.20	mg/L			10/12/11 15:06	1
Ammonia as N	0.33		0.020	0.010	mg/L			10/18/11 14:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			10/10/11 14:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.58				SU			10/07/11 09:29	1
Field Temperature	23.51				Degrees C			10/07/11 09:29	1
Oxygen, Dissolved	0.51				mg/L			10/07/11 09:29	1
Specific Conductance	291				umhos/cm			10/07/11 09:29	1
Turbidity	0.8				NTU			10/07/11 09:29	1

Client Sample Results

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-19 WACS# 822

Lab Sample ID: 660-43986-4

Date Collected: 10/07/11 10:05

Matrix: Water

Date Received: 10/07/11 13:40

Method: 6010B - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 10:10	1
Iron	50	U	200	50	ug/L		10/12/11 09:06	10/13/11 10:10	1
Sodium	14		0.50	0.31	mg/L		10/12/11 09:06	10/13/11 10:10	1

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General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		0.50	0.20	mg/L			10/12/11 15:21	1
Ammonia as N	0.24		0.020	0.010	mg/L			10/18/11 14:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/10/11 14:45	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.33				SU			10/07/11 10:05	1
Field Temperature	23.46				Degrees C			10/07/11 10:05	1
Oxygen, Dissolved	0.44				mg/L			10/07/11 10:05	1
Specific Conductance	336				umhos/cm			10/07/11 10:05	1
Turbidity	0.7				NTU			10/07/11 10:05	1

QC Sample Results

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

TestAmerica Job ID: 660-43937-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-116147/1-A
Matrix: Water
Analysis Batch: 116190

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 116147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 09:40	1
Iron	50	U	200	50	ug/L		10/12/11 09:06	10/13/11 09:40	1
Sodium	0.31	U	0.50	0.31	mg/L		10/12/11 09:06	10/13/11 09:40	1

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Lab Sample ID: LCS 660-116147/2-A
Matrix: Water
Analysis Batch: 116190

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 116147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	982		ug/L		98	75 - 125
Iron	1000	1040		ug/L		104	75 - 125
Sodium	10.0	10.1		mg/L		101	75 - 125

Lab Sample ID: 660-43986-1 MS
Matrix: Water
Analysis Batch: 116190

Client Sample ID: TH-72 WACS# 27753
Prep Type: Total Recoverable
Prep Batch: 116147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	4.0	U	1000	1010		ug/L		101	75 - 125
Iron	140	I	1000	1180		ug/L		104	75 - 125
Sodium	34		10.0	44.1		mg/L		101	75 - 125

Lab Sample ID: 660-43986-1 MSD
Matrix: Water
Analysis Batch: 116190

Client Sample ID: TH-72 WACS# 27753
Prep Type: Total Recoverable
Prep Batch: 116147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1010		ug/L		101	75 - 125	0	20
Iron	140	I	1000	1170		ug/L		104	75 - 125	1	20
Sodium	34		10.0	44.3		mg/L		104	75 - 125	0	20

Lab Sample ID: MB 660-116189/1-A
Matrix: Water
Analysis Batch: 116241

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 116189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 08:31	1
Iron	50	U	200	50	ug/L		10/13/11 09:30	10/14/11 08:31	1
Sodium	0.31	U	0.50	0.31	mg/L		10/13/11 09:30	10/14/11 08:31	1

Lab Sample ID: LCS 660-116189/2-A
Matrix: Water
Analysis Batch: 116241

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 116189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	983		ug/L		98	75 - 125
Iron	1000	1050		ug/L		105	75 - 125
Sodium	10.0	10.3		mg/L		103	75 - 125

QC Sample Results

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

TestAmerica Job ID: 660-43937-1

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

Lab Sample ID: 660-44047-C-1-B MS
Matrix: Water
Analysis Batch: 116241

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 116189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	5.4	I	1000	1020		ug/L		102	75 - 125
Iron	690		1000	1760		ug/L		107	75 - 125
Sodium	9.7		10.0	20.2		mg/L		105	75 - 125

Lab Sample ID: 660-44047-C-1-C MSD
Matrix: Water
Analysis Batch: 116241

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 116189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	5.4	I	1000	1010		ug/L		100	75 - 125	1	20
Iron	690		1000	1700		ug/L		101	75 - 125	4	20
Sodium	9.7		10.0	19.7		mg/L		100	75 - 125	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-116185/3
Matrix: Water
Analysis Batch: 116185

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			10/12/11 10:16	1

Lab Sample ID: LCS 660-116185/4
Matrix: Water
Analysis Batch: 116185

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	9.55		mg/L		96	90 - 110

Lab Sample ID: 660-43986-1 MS
Matrix: Water
Analysis Batch: 116185

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
Chloride	31		10.0	41.4		mg/L		104	90 - 110

Lab Sample ID: 660-43986-1 MSD
Matrix: Water
Analysis Batch: 116185

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
Chloride	31		10.0	40.5		mg/L		95	90 - 110	2	30

Lab Sample ID: MB 660-116328/3
Matrix: Water
Analysis Batch: 116328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			10/14/11 09:39	1

QC Sample Results

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

TestAmerica Job ID: 660-43937-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-116328/4
Matrix: Water
Analysis Batch: 116328

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	9.46		mg/L		95	90 - 110

Lab Sample ID: 660-43966-4 MS
Matrix: Water
Analysis Batch: 116328

Client Sample ID: TH-57 WACS# 1570
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	38	J3	10.0	45.8	J3	mg/L		82	90 - 110

Lab Sample ID: 660-43966-4 MSD
Matrix: Water
Analysis Batch: 116328

Client Sample ID: TH-57 WACS# 1570
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	38	J3	10.0	45.9	J3	mg/L		83	90 - 110	0	30

Lab Sample ID: MB 660-116472/10
Matrix: Water
Analysis Batch: 116472

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			10/18/11 12:10	1

Lab Sample ID: LCS 660-116472/11
Matrix: Water
Analysis Batch: 116472

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	9.59		mg/L		96	90 - 110

Lab Sample ID: 660-43937-1 MS
Matrix: Water
Analysis Batch: 116472

Client Sample ID: SUP 1 WACS# 27755
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	9.0		10.0	19.8		mg/L		108	90 - 110

Lab Sample ID: 660-43937-1 MSD
Matrix: Water
Analysis Batch: 116472

Client Sample ID: SUP 1 WACS# 27755
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	9.0		10.0	19.4		mg/L		103	90 - 110	2	30

QC Sample Results

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

TestAmerica Job ID: 660-43937-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-116002/3
Matrix: Water
Analysis Batch: 116002

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			10/07/11 11:09	1

Lab Sample ID: LCS 660-116002/4
Matrix: Water
Analysis Batch: 116002

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	0.511		mg/L		102	90 - 110

Lab Sample ID: 660-43882-C-7 MS
Matrix: Water
Analysis Batch: 116002

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.010	U	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: 660-43882-C-7 MSD
Matrix: Water
Analysis Batch: 116002

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ammonia as N	0.010	U	1.00	1.02		mg/L		102	90 - 110	0	30

Lab Sample ID: MB 660-116006/3
Matrix: Water
Analysis Batch: 116006

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			10/07/11 11:57	1

Lab Sample ID: LCS 660-116006/4
Matrix: Water
Analysis Batch: 116006

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	0.509		mg/L		102	90 - 110

Lab Sample ID: 660-43902-C-6 MS
Matrix: Water
Analysis Batch: 116006

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.010	U	1.00	0.976		mg/L		98	90 - 110

Lab Sample ID: 660-43902-C-6 MSD
Matrix: Water
Analysis Batch: 116006

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ammonia as N	0.010	U	1.00	0.981		mg/L		98	90 - 110	1	30

QC Sample Results

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

TestAmerica Job ID: 660-43937-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-43966-2 MS
Matrix: Water
Analysis Batch: 116006

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Ammonia as N	0.45	J3	1.00	1.18	J3	mg/L		73	90 - 110	

Lab Sample ID: 660-43966-2 MSD
Matrix: Water
Analysis Batch: 116006

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Ammonia as N	0.45	J3	1.00	1.18	J3	mg/L		73	90 - 110		0	30

Lab Sample ID: MB 660-116433/13
Matrix: Water
Analysis Batch: 116433

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	0.010	U	0.020	0.010	mg/L			10/18/11 14:05	1

Lab Sample ID: LCS 660-116433/14
Matrix: Water
Analysis Batch: 116433

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

Analyte	Spike	LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	
Ammonia as N	0.500	0.495		mg/L		99	90 - 110	

Lab Sample ID: 660-44012-D-11 MS
Matrix: Water
Analysis Batch: 116433

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Ammonia as N	0.025	J3	1.00	0.861	J3	mg/L		84	90 - 110	

Lab Sample ID: 660-44012-D-11 MSD
Matrix: Water
Analysis Batch: 116433

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Ammonia as N	0.025	J3	1.00	0.863	J3	mg/L		84	90 - 110		0	30

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

Lab Sample ID: MB 660-116016/1
Matrix: Water
Analysis Batch: 116016

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

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			10/07/11 14:34	1

QC Sample Results

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

TestAmerica Job ID: 660-43937-1

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

Lab Sample ID: LCS 660-116016/2
Matrix: Water
Analysis Batch: 116016

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

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

Lab Sample ID: 660-43914-D-1 DU
Matrix: Water
Analysis Batch: 116016

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	1300		1220		mg/L		5	20

Lab Sample ID: MB 660-116079/1
Matrix: Water
Analysis Batch: 116079

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			10/10/11 14:38	1

Lab Sample ID: LCS 660-116079/2
Matrix: Water
Analysis Batch: 116079

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	9930		mg/L		99	80 - 120

Lab Sample ID: 660-43961-E-1 DU
Matrix: Water
Analysis Batch: 116079

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	74		76.0		mg/L		3	20

QC Association Summary

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

TestAmerica Job ID: 660-43937-1

Metals

Prep Batch: 116147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43986-1	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43986-1 MS	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43986-1 MSD	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43986-2	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-43986-3	TH-40 WACS# 27752	Total Recoverable	Water	3005A	
660-43986-4	TH-19 WACS# 822	Total Recoverable	Water	3005A	
LCS 660-116147/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-116147/1-A	Method Blank	Total Recoverable	Water	3005A	

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Prep Batch: 116189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43937-1	SUP 1 WACS# 27755	Total Recoverable	Water	3005A	
660-43937-2	SUP 2 WACS# 27756	Total Recoverable	Water	3005A	
660-43966-1	TH-73 WACS# 27754	Total Recoverable	Water	3005A	
660-43966-2	TH-58 WACS# 1571	Total Recoverable	Water	3005A	
660-43966-3	TH-30 WACS# 1065	Total Recoverable	Water	3005A	
660-43966-4	TH-57 WACS# 1570	Total Recoverable	Water	3005A	
660-43966-5	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
660-43966-6	Duplicate 43966	Total Recoverable	Water	3005A	
660-44047-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-44047-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 660-116189/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-116189/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 116190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43986-1	TH-72 WACS# 27753	Total Recoverable	Water	6010B	116147
660-43986-1 MS	TH-72 WACS# 27753	Total Recoverable	Water	6010B	116147
660-43986-1 MSD	TH-72 WACS# 27753	Total Recoverable	Water	6010B	116147
660-43986-2	TH-42 WACS# 823	Total Recoverable	Water	6010B	116147
660-43986-3	TH-40 WACS# 27752	Total Recoverable	Water	6010B	116147
660-43986-4	TH-19 WACS# 822	Total Recoverable	Water	6010B	116147
LCS 660-116147/2-A	Lab Control Sample	Total Recoverable	Water	6010B	116147
MB 660-116147/1-A	Method Blank	Total Recoverable	Water	6010B	116147

Analysis Batch: 116241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43937-1	SUP 1 WACS# 27755	Total Recoverable	Water	6010B	116189
660-43937-2	SUP 2 WACS# 27756	Total Recoverable	Water	6010B	116189
660-43966-1	TH-73 WACS# 27754	Total Recoverable	Water	6010B	116189
660-43966-2	TH-58 WACS# 1571	Total Recoverable	Water	6010B	116189
660-43966-3	TH-30 WACS# 1065	Total Recoverable	Water	6010B	116189
660-43966-4	TH-57 WACS# 1570	Total Recoverable	Water	6010B	116189
660-43966-5	TH-28A WACS# 19862	Total Recoverable	Water	6010B	116189
660-43966-6	Duplicate 43966	Total Recoverable	Water	6010B	116189
660-44047-C-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	116189
660-44047-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	116189
LCS 660-116189/2-A	Lab Control Sample	Total Recoverable	Water	6010B	116189
MB 660-116189/1-A	Method Blank	Total Recoverable	Water	6010B	116189

QC Association Summary

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

TestAmerica Job ID: 660-43937-1

General Chemistry

Analysis Batch: 116002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43882-C-7 MS	Matrix Spike	Total/NA	Water	350.1	
660-43882-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-43966-1	TH-73 WACS# 27754	Total/NA	Water	350.1	
LCS 660-116002/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-116002/3	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 116006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43902-C-6 MS	Matrix Spike	Total/NA	Water	350.1	
660-43902-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	350.1	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	350.1	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-43966-2 MS	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-43966-2 MSD	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	350.1	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	350.1	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-43966-6	Duplicate 43966	Total/NA	Water	350.1	
LCS 660-116006/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-116006/3	Method Blank	Total/NA	Water	350.1	

8

Analysis Batch: 116016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43914-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	SM 2540C	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	
LCS 660-116016/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-116016/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 116079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43961-E-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-43966-1	TH-73 WACS# 27754	Total/NA	Water	SM 2540C	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	SM 2540C	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	SM 2540C	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	SM 2540C	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-43966-6	Duplicate 43966	Total/NA	Water	SM 2540C	
660-43986-1	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	
660-43986-2	TH-42 WACS# 823	Total/NA	Water	SM 2540C	
660-43986-3	TH-40 WACS# 27752	Total/NA	Water	SM 2540C	
660-43986-4	TH-19 WACS# 822	Total/NA	Water	SM 2540C	
LCS 660-116079/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-116079/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 116185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43986-1	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-43986-1 MS	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-43986-1 MSD	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-43986-2	TH-42 WACS# 823	Total/NA	Water	300.0	

QC Association Summary

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

TestAmerica Job ID: 660-43937-1

General Chemistry (Continued)

Analysis Batch: 116185 (Continued)

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43986-3	TH-40 WACS# 27752	Total/NA	Water	300.0	
660-43986-4	TH-19 WACS# 822	Total/NA	Water	300.0	
LCS 660-116185/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-116185/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 116328

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43966-1	TH-73 WACS# 27754	Total/NA	Water	300.0	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	300.0	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	300.0	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-43966-4 MS	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-43966-4 MSD	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	300.0	
LCS 660-116328/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-116328/3	Method Blank	Total/NA	Water	300.0	

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Analysis Batch: 116433

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43986-1	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-43986-2	TH-42 WACS# 823	Total/NA	Water	350.1	
660-43986-3	TH-40 WACS# 27752	Total/NA	Water	350.1	
660-43986-4	TH-19 WACS# 822	Total/NA	Water	350.1	
660-44012-D-11 MS	Matrix Spike	Total/NA	Water	350.1	
660-44012-D-11 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
LCS 660-116433/14	Lab Control Sample	Total/NA	Water	350.1	
MB 660-116433/13	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 116472

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-43937-1 MS	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-43937-1 MSD	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	300.0	
660-43966-6	Duplicate 43966	Total/NA	Water	300.0	
LCS 660-116472/11	Lab Control Sample	Total/NA	Water	300.0	
MB 660-116472/10	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 116108

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	Field Sampling	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	Field Sampling	
660-43966-1	TH-73 WACS# 27754	Total/NA	Water	Field Sampling	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	Field Sampling	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	Field Sampling	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	Field Sampling	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	
660-43986-1	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-43986-2	TH-42 WACS# 823	Total/NA	Water	Field Sampling	
660-43986-3	TH-40 WACS# 27752	Total/NA	Water	Field Sampling	

QC Association Summary

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

TestAmerica Job ID: 660-43937-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 116108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43986-4	TH-19 WACS# 822	Total/NA	Water	Field Sampling	



Lab Chronicle

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: SUP 1 WACS# 27755

Date Collected: 10/05/11 13:10

Date Received: 10/05/11 15:00

Lab Sample ID: 660-43937-1

Matrix: Water

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 08:57	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:28	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116016	10/07/11 14:39	TO	TAL TAM
Total/NA	Analysis	300.0		1	116472	10/18/11 13:27	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/05/11 13:10		TAL TAM

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Client Sample ID: SUP 2 WACS# 27756

Date Collected: 10/05/11 12:44

Date Received: 10/05/11 15:00

Lab Sample ID: 660-43937-2

Matrix: Water

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:01	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:29	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116016	10/07/11 14:39	TO	TAL TAM
Total/NA	Analysis	300.0		1	116472	10/18/11 13:43	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/05/11 12:44		TAL TAM

Client Sample ID: TH-73 WACS# 27754

Date Collected: 10/06/11 10:49

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-1

Matrix: Water

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:11	GF	TAL TAM
Total/NA	Analysis	350.1		1	116002	10/07/11 11:42	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:41	TO	TAL TAM
Total/NA	Analysis	300.0		2	116328	10/14/11 17:23	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 10:49		TAL TAM

Client Sample ID: TH-58 WACS# 1571

Date Collected: 10/06/11 10:21

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-2

Matrix: Water

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:14	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 11:59	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:41	TO	TAL TAM
Total/NA	Analysis	300.0		10	116328	10/14/11 17:39	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 10:21		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-43966-3

Date Collected: 10/06/11 09:58

Matrix: Water

Date Received: 10/06/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:17	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:03	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:42	TO	TAL TAM
Total/NA	Analysis	300.0		2	116328	10/14/11 17:55	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 09:58		TAL TAM

9

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-43966-4

Date Collected: 10/06/11 11:27

Matrix: Water

Date Received: 10/06/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:21	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:04	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:42	TO	TAL TAM
Total/NA	Analysis	300.0		1	116328	10/14/11 18:10	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 11:27		TAL TAM

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-43966-5

Date Collected: 10/06/11 11:09

Matrix: Water

Date Received: 10/06/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:24	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:05	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:43	TO	TAL TAM
Total/NA	Analysis	300.0		1	116328	10/14/11 18:26	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 11:09		TAL TAM

Client Sample ID: Duplicate 43966

Lab Sample ID: 660-43966-6

Date Collected: 10/06/11 00:00

Matrix: Water

Date Received: 10/06/11 13:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:28	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:06	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:43	TO	TAL TAM
Total/NA	Analysis	300.0		10	116472	10/18/11 13:59	TS	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-43986-1

Date Collected: 10/07/11 11:44

Matrix: Water

Date Received: 10/07/11 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 09:50	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:44	TO	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 14:34	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:30	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 11:44		TAL TAM

9

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-43986-2

Date Collected: 10/07/11 10:55

Matrix: Water

Date Received: 10/07/11 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 10:03	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:44	TO	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 14:50	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:31	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 10:55		TAL TAM

Client Sample ID: TH-40 WACS# 27752

Lab Sample ID: 660-43986-3

Date Collected: 10/07/11 09:29

Matrix: Water

Date Received: 10/07/11 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 10:06	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:45	TO	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 15:06	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:32	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 09:29		TAL TAM

Client Sample ID: TH-19 WACS# 822

Lab Sample ID: 660-43986-4

Date Collected: 10/07/11 10:05

Matrix: Water

Date Received: 10/07/11 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 10:10	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:45	TO	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 15:21	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:34	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 10:05		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-43937-1

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: 660-43937-1

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

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

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Method Summary

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

TestAmerica Job ID: 660-43937-1

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: 660-43937-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-43937-1	SUP 1 WACS# 27755	Water	10/05/11 13:10	10/05/11 15:00
660-43937-2	SUP 2 WACS# 27756	Water	10/05/11 12:44	10/05/11 15:00
660-43966-1	TH-73 WACS# 27754	Water	10/06/11 10:49	10/06/11 13:28
660-43966-2	TH-58 WACS# 1571	Water	10/06/11 10:21	10/06/11 13:28
660-43966-3	TH-30 WACS# 1065	Water	10/06/11 09:58	10/06/11 13:28
660-43966-4	TH-57 WACS# 1570	Water	10/06/11 11:27	10/06/11 13:28
660-43966-5	TH-28A WACS# 19862	Water	10/06/11 11:09	10/06/11 13:28
660-43966-6	Duplicate 43966	Water	10/06/11 00:00	10/06/11 13:28
660-43986-1	TH-72 WACS# 27753	Water	10/07/11 11:44	10/07/11 13:40
660-43986-2	TH-42 WACS# 823	Water	10/07/11 10:55	10/07/11 13:40
660-43986-3	TH-40 WACS# 27752	Water	10/07/11 09:29	10/07/11 13:40
660-43986-4	TH-19 WACS# 822	Water	10/07/11 10:05	10/07/11 13:40

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660-43957

**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: ABREP. OF SOLID WASTE DEPT. 9-29-11 2:49LOCATION: SUP 1 WACS# 27755SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

N.A. Balloon ✓ ✓ ☐WELL VOLUME TO PURGE: 15 MIN:PURGE STARTED: DATE 10-5-11 TIME 12:51ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
AB	5C	1:04	24.45	322	7.46	.19	0.0
AB	5C	1:08	24.46	322	7.47	.18	0.0
AB	5C	1:10	24.45	322	7.47	.18	0.0

SAMPLE CONTAINERS

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

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

10-5-11 1:10

ANALYSIS REQUESTED:

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB DATE | TIMEACCEPTED BY: Carol McHugh REP. OF SOLID WASTE DEPT. 10-5-11 3:00REP. OF CONTRACT LAB. 10-5-11 3:00COMMENT'S: u07#00502.5c 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:

REP. OF SOLID WASTE DEPT. 9-29-11 | 2:43

LOCATION: SUP 2 WACS# 27756

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon

☒ JC

☐

WELL VOLUME TO PURGE: 15 MIN:

PURGE STARTED: DATE 10-5-11 TIME 12:25

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>BC</u>	<u>12:40</u>	<u>25.82</u>	<u>332</u>	<u>7.59</u>	<u>0.53</u>	<u>0.0</u>
<u>JC</u>	<u>12:42</u>	<u>25.80</u>	<u>333</u>	<u>7.59</u>	<u>0.45</u>	<u>0.3</u>
<u>JC</u>	<u>12:44</u>	<u>25.84</u>	<u>331</u>	<u>7.59</u>	<u>0.45</u>	<u>0.0</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
<u>1</u>	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	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	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

10-5-11 | 12:44

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0

YES

SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

REP. OF SOLID WASTE DEPT.

DATE | TIME

10-5-11 | 3:00

ACCEPTED BY:

REP. OF CONTRACT LAB.

10-5-11 | 3:00

COMMENT'S: W07# 0050

2.5° CU-07

660-43966

**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: ALREP. OF SOLID WASTE DEPT. 9-29-11 | 2:43LOCATION: TH-73 WACS#27754SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

U.A. Balloon 50 ☐WELL DIAMETER: 2 INCH:TOTAL DEPTH OF WELL: 43.40 Ft.DEPTH TO WATER: 31.04 Ft.LENGTH OF WATER COL: 12.34 Ft.VOLUME TO PURGE: 1.97 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

10-6-11 | 10:350.20 GPM.

DATE | TIME

10-6-11 | 10:492.5 GAL.33.79FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>AL</u>	<u>10:45</u>	<u>25.54</u>	<u>349</u>	<u>5.29</u>	<u>.86</u>	<u>11.4</u> =
<u>AL</u>	<u>10:47</u>	<u>25.51</u>	<u>346</u>	<u>5.23</u>	<u>.88</u>	<u>9.0</u>
<u>AL</u>	<u>10:49</u>	<u>25.48</u>	<u>345</u>	<u>5.20</u>	<u>.89</u>	<u>12.0</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
<u>1</u>	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml. GLASS		125 ml. GLASS	
	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	

4

TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

10-6-11 | 10:49ANALYSIS REQUESTED:AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AL REP. OF SOLID WASTE DEPT. 10-6-11 | 1:28ACCEPTED BY: Carol McHally REP. OF CONTRACT LAB. 10-9-11 | 1:28COMMENT'S: W0#00504.4 c CU07

**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: ABC REP. OF SOLID WASTE DEPT. 9-29-11 2:43

LOCATION: 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: 27.72 Ft.

LENGTH OF WATER COL: 5.20 Ft.

VOLUME TO PURGE: 0.83 Gal.

PURGE STARTED: 10-6-11 10:13

PURGE RATE: 0.20 GPM.

PURGE ENDED: 10-6-11 10:21

ACT. VOL. PURGED: 1.4 GAL.

Draw Down: 28.17

FIELD PARAMETERS:

	BY	TIME	TEMP	COND	PH	DO	TURB
1	JC	10:17	24.02	1419	5.75	.69	8.4 =
2	JC	10:19	24.02	1417	5.73	.69	7.3
3	JC	10:21	24.01	1414	5.72	.67	5.2

13

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10-6-11 10:21

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: ABC REP. OF SOLID WASTE DEPT. 10-6-11 1:28

ACCEPTED BY: Carol McInally REP. OF CONTRACT LAB. 10-6-11 1:28

COMMENT'S: W080050

**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: ASL REP. OF SOLID WASTE DEPT. 9-29-11 2:43

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

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

WELL DIAMETER: <u>2.00</u> INCH:		DATE TIME
TOTAL DEPTH OF WELL: <u>46.19</u> Ft.	PURGE STARTED: <u>10-6-11 9:40</u>	
DEPTH TO WATER: <u>23.94</u> Ft.	PURGE RATE: <u>0.25</u> GPM.	
LENGTH OF WATER COL: <u>22.23</u> Ft.	DATE TIME	
VOLUME TO PURGE: <u>3.36</u> Gal.	PURGE ENDED: <u>10-6-11 9:58</u>	
	ACT. VOL. PURGED: <u>4.5</u> GAL.	
	Draw Down: <u>24.00</u>	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>ASL</u>	<u>9:54</u>	<u>23.46</u>	<u>229</u>	<u>4.66</u>	<u>0.19</u>	<u>2.9</u>
<u>ASL</u>	<u>9:54</u>	<u>23.46</u>	<u>230</u>	<u>4.64</u>	<u>0.18</u>	<u>3.7</u>
<u>JL</u>	<u>9:58</u>	<u>23.44</u>	<u>231</u>	<u>4.43</u>	<u>0.17</u>	<u>3.4</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
<u>1</u>	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	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	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10-6-11 9:58

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: _____
RELINQUISHED BY: ASL REP. OF SOLID WASTE DEPT. 10-6-11 1:28
ACCEPTED BY: Carol McHally REP. OF CONTRACT LAB. 10-6-11 1:28

COMMENT'S: 600 #0050 H₂S odor

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-29-11 2:43

LOCATION: 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: 18.90 Ft.

LENGTH OF WATER COL: 7.93 Ft.

VOLUME TO PURGE: 1.30 Gal.

PURGE STARTED:

DATE | TIME

10-6-11 11:18

PURGE RATE:

0.25 GPM.

DATE | TIME

PURGE ENDED:

10-6-11 11:27

ACT. VOL. PURGED:

2.25 GAL.

Draw Down:

19.58

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	JC 11:23	24.78	147	5.03	0.28	2.1
AB	JC 11:25	24.79	145	5.03	0.27	1.7
AB	JC 11:27	24.76	144	5.06	0.21	2.1

SAMPLE CONTAINERS

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

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

10-6-11 11:27

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES

SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: _____

REP. OF SOLID WASTE DEPT. 10-6-11 1:28

ACCEPTED BY: Carol McHally

REP. OF CONTRACT LAB. 10-6-11 1:28

COMMENT'S: WO#0050

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-29-11 2:43

LOCATION: TH-28A WACS# 19862

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ J. C. ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 34.30 Ft.

DEPTH TO WATER: 28.11 Ft.

LENGTH OF WATER COL: 6.19 Ft.

VOLUME TO PURGE: 0.99 Gal.

PURGE STARTED: 10-6-11 11:00

PURGE RATE: 0.20 GPM.

PURGE ENDED: 10-6-11 11:09

ACT. VOL. PURGED: 1.8 GAL.

Draw Down: 28.64

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB J. C.	11:05	24.62	197	5.22	1.31	4.4 =
AB J. C.	11:07	24.64	194	5.20	1.28	4.1
AB J. C.	11:09	24.66	195	5.17	1.24	3.4

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10-6-11 11:09

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 10-6-11 1:28

ACCEPTED BY: Carol McHale REP. OF CONTRACT LAB. 10-6-11 1:28

COMMENT'S: W02#0080

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: ABC REP. OF SOLID WASTE DEPT. 9-29-11 2:43

LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: _____

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

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10-9-11 -

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: _____ DATE | TIME

RELINQUISHED BY: ABC REP. OF SOLID WASTE DEPT. 10-6-11 1:28

ACCEPTED BY: Carol McHally REP. OF CONTRACT LAB. 10-6-11 1:28

COMMENT'S: WO #0250

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

PRECLEANED SAMPLE CONTAINERS: 660-43986 DATE | TIME _____
 RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____
 ACCEPTED BY: ABC REP. OF SOLID WASTE DEPT. 9-29-11 2:43
 LOCATION: TH-72 WACS# 27753 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☐ _____

WELL DIAMETER: 2 INCH: _____ DATE | TIME _____
 TOTAL DEPTH OF WELL: 190.00 Ft. PURGE STARTED: 10-7-11 11:10
 DEPTH TO WATER: 100.90 Ft. PURGE RATE: 0.55 GPM.
 LENGTH OF WATER COL: 89.00 Ft. DATE | TIME _____
 VOLUME TO PURGE: 14.24 Gal. PURGE ENDED: 10-7-11 11:44
 ACT. VOL. PURGED: 18.70 GAL.
 Draw Down: 100.90

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>AB</u>	<u>5C 11:40</u>	<u>23.18</u>	<u>470</u>	<u>7.34</u>	<u>1.64</u>	<u>1.0</u>
<u>AB</u>	<u>5C 11:42</u>	<u>23.16</u>	<u>470</u>	<u>7.33</u>	<u>1.62</u>	<u>1.0</u>
<u>AB</u>	<u>5C 11:44</u>	<u>23.13</u>	<u>471</u>	<u>7.31</u>	<u>1.69</u>	<u>1.1</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
<u>1</u>	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	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	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED
DATE | TIME
10-7-11 11:44

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: _____ DATE | TIME _____
 RELINQUISHED BY: ABC REP. OF SOLID WASTE DEPT. 10-7-11 1:40
 ACCEPTED BY: Chad McHulley REP. OF CONTRACT LAB. 10-7-11 1:40

COMMENT'S: W0#0050 2.5c CU-07

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

PRECLEANED SAMPLE CONTAINERS:

660-43986

DATE | TIME

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB

REP. OF SOLID WASTE DEPT. 9-29-11 | 2:43

LOCATION: TH-42 WACS# 823

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JE ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 164.00 Ft.

DEPTH TO WATER: 72.00 Ft.

LENGTH OF WATER COL: 92.00 Ft.

VOLUME TO PURGE: 14.72 Gal.

PURGE STARTED:

DATE | TIME
10-7-11 | 10:25

PURGE RATE:

0.55 GPM.

PURGE ENDED:

DATE | TIME
10-7-11 | 10:55

ACT. VOL. PURGED:

14.5 GAL.

Draw Down:

90.26

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>AB</u>	<u>GC</u>	<u>10:51</u>	<u>23.90</u>	<u>421</u>	<u>7.23</u>	<u>0.29</u>
<u>AB</u>	<u>JE</u>	<u>10:53</u>	<u>23.92</u>	<u>421</u>	<u>7.23</u>	<u>0.29</u>
<u>AB</u>	<u>JE</u>	<u>10:55</u>	<u>23.93</u>	<u>421</u>	<u>7.26</u>	<u>0.25</u>

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml. VIAL		40 ml. VIAL	
<u>1</u>	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml. GLASS		125 ml. GLASS	
	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	

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

10-7-11 | 10:55

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic Dissolved Sodium

Dissolved Iron Dissolved Arsenic

PRESERVED SAMPLES PH < 2.0 7/ES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB

REP. OF SOLID WASTE DEPT. 10-7-11 | 1:40

ACCEPTED BY: Carol McPherson

REP. OF CONTRACT LAB. 10-7-11 | 1:40

COMMENT'S: W0 #0050

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

PRECLEANED SAMPLE CONTAINERS:

660-43986

DATE | TIME

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: _____

REP. OF SOLID WASTE DEPT. 9-29-11 2:43

LOCATION: TH-40
2-103 WACS# 27752

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

CL A. Balloon ☒ JC ☐

WELL DIAMETER: 2.0 INCH: 165.90

TOTAL DEPTH OF WELL: 42.50 Ft.

DEPTH TO WATER: 92.80 Ft.

LENGTH OF WATER COL: 73.1 Ft.

VOLUME TO PURGE: 15.70 Gal.

PURGE STARTED: 10-7-11 9:15 DATE | TIME

PURGE RATE: 1.00 GPM.

PURGE ENDED: 10-7-11 9:29 DATE | TIME

ACT. VOL. PURGED: 14 GAL.

Draw Down: _____

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>JC</u>	<u>9:25</u>	<u>23.50</u>	<u>299</u>	<u>7.57</u>	<u>.40</u>	<u>1.1</u>
<u>JC</u>	<u>9:27</u>	<u>23.50</u>	<u>295</u>	<u>7.57</u>	<u>.54</u>	<u>1.3</u>
<u>JC</u>	<u>9:29</u>	<u>23.51</u>	<u>291</u>	<u>7.58</u>	<u>.51</u>	<u>1.8</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
<u>1</u>	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	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	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

10-7-11 9:29

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: _____

REP. OF SOLID WASTE DEPT. 10-7-11 1:40 DATE | TIME

ACCEPTED BY: _____

REP. OF CONTRACT LAB. 10-7-11 1:40

COMMENT'S: W070050

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

PRECLEANED SAMPLE CONTAINERS: 660-43986 DATE | TIME _____
 RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____
 ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 9-29-11 2:43
 LOCATION: TH-46 ¹⁹ WACS# 822 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JL ☐

WELL DIAMETER: 2.0 INCH: 153.40
 TOTAL DEPTH OF WELL: 165.90 Ft. PURGE STARTED: 10-7-11 9:52
 DEPTH TO WATER: 95.72 Ft. PURGE RATE: 1.00 GPM.
 LENGTH OF WATER COL: 57.88 Ft. DATE | TIME _____
 VOLUME TO PURGE: 9.24 Gal. PURGE ENDED: 10-7-11 10:05
 ACT. VOL. PURGED: 13 GAL.
 Draw Down: 95.85

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	JL 10:01	23.45	335	7.34	0.49	0.8 =
AB	CD 10:03	23.46	335	7.32	0.47	0.9
AB	JL 10:05	23.46	335	7.33	0.44	0.7

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10-7-11 10:05

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: _____ DATE | TIME _____
 RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 10-7-11 1:40
 ACCEPTED BY: Carol McMillan REP. OF CONTRACT LAB. 10-7-11 1:40

COMMENT'S: W.D.# 0050

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-43937-1

Login Number: 43937

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

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	2.5 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-43937-1

Login Number: 43966

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.4 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-43937-1

Login Number: 43986

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

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	2.5c CU07
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.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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