Hillsborough County
Florida

Office of the County Administrator
Michael S. Merrill

January 17, 2012

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

RE: **Southeast County Landfill**
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 16

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 the potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. The monthly sampling event was conducted on December 8-9, 2011, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples were collected from eleven (11) on-site groundwater monitoring wells and two (2) on-site limited use potable supply wells. Samples for the groundwater monitoring wells and the on-site supply wells were analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters. The following paragraphs summarize the findings from this sampling event, and the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

pH

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values in the surficial range from 4.66 to 5.86 pH units. The pH values within the surficial aquifer across the SCLF have historically been observed below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in the four (4) upper Floridan monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. P-18S was not pumped to evaluate turbidity during this sampling event, and the groundwater sample was collected from TH-30. The Field Sampling Team has been instructed to always pump P-18S in an attempt to collect a representative sample, and this will be done in the next sampling event in February. The turbidity value recorded in TH-42 was 11.9 NTU, which is a significant reduction over the past year.

Conductivity

The conductivity values in most of the wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. Surficial aquifer monitoring well, TH-58 has exhibited elevated conductivity values trending upward over the past year. The conductivity value during this sampling event was 1307 uhmos/cm. In addition, the conductivity value in surficial aquifer monitoring well TH-73 has increased to 1499 umhos/cm and exhibited an overall upward trend since October. These observed impacts remain in close proximity to the sinkhole within the surficial aquifer and are not observed within the deeper upper Floridan aquifer monitoring wells. The conductivity value observed in TH-72 at 528 uhmos/cm is slightly elevated when compared to the other Floridan wells. However, it should be noted that conductivity in this well has consistently been around 500 uhmos/cm over the period of record.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring wells, TH-58 and TH-73, exhibited TDS concentrations of 570 mg/l and 820 mg/l, respectively, and exceed the SDWS of 500 mg/l. The County will continue to closely observe and evaluate TDS values in the surficial aquifer. The TDS value in the upper Floridan well TH-72 exhibited a concentration of 320 mg/l, which is slightly above the other upper Floridan wells, but still below the SDWS.

Chloride

Surficial aquifer groundwater monitoring wells, TH-58 and TH-73, exhibited chloride concentrations of 260 and 500 mg/l, which exceed the SDWS of 250 mg/l. Over the past several sampling events, chloride values have decreased in value in TH-58. However, a potential increasing trend in chloride continues to be apparent in TH-73, which is closest to the sinkhole area. The chloride values in all the other wells are well below the SDWS.

Arsenic

The arsenic observed in TH-58 is 0.026 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present in TH-58 at almost the same concentration for several years. 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. 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.

Iron

Iron concentrations in six (6) surficial aquifer wells and one (1) upper Floridan well were observed above the SDWS of 0.3 mg/l. The concentrations of iron ranged from below the detectable limits to 27 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. Based on the relative location, the iron value observed in TH-42 at 0.47 mg/l may be naturally occurring in the weathered limestone and clay strata within the production zone of this well.

Total Ammonia

Ammonia concentrations were observed in surficial groundwater monitoring wells TH-73 at 3 mg/l, slightly exceeding the Groundwater Cleanup Target Level (GCTL) of 2.8 mg/l. This result is a decrease from the 7.3 mg/l concentration observed in November. These results may be indicative of water quality impacts from the sinkhole and/or the grouting fluids. The concentrations observed in TH-58, TH-74, and TH-75 were below the GCTL. Overall, the remaining concentrations of ammonia within the surficial aquifer appear consistent with the water quality observations to date and the County will continue to evaluate this component of water quality.

Conclusions

The water quality observed in the December 2011 sampling event continue to indicate the wells closest to the sinkhole exhibit changes in conductivity, total dissolved solids, chloride, and total ammonia. These impacts are likely a result of the sinkhole and/or the grouting activities. 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.

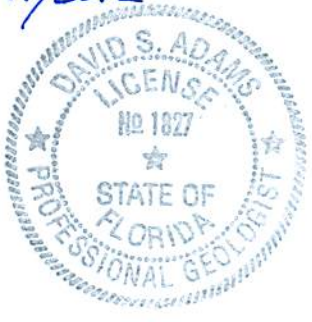
Recommendations

The County recommends continuation of the IAMP sampling program on the approved monthly schedule, and associated evaluation of water quality in the eleven 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 1/17/2012

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



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Andy Schipfer, EPC
Ernest Ely, WM
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services

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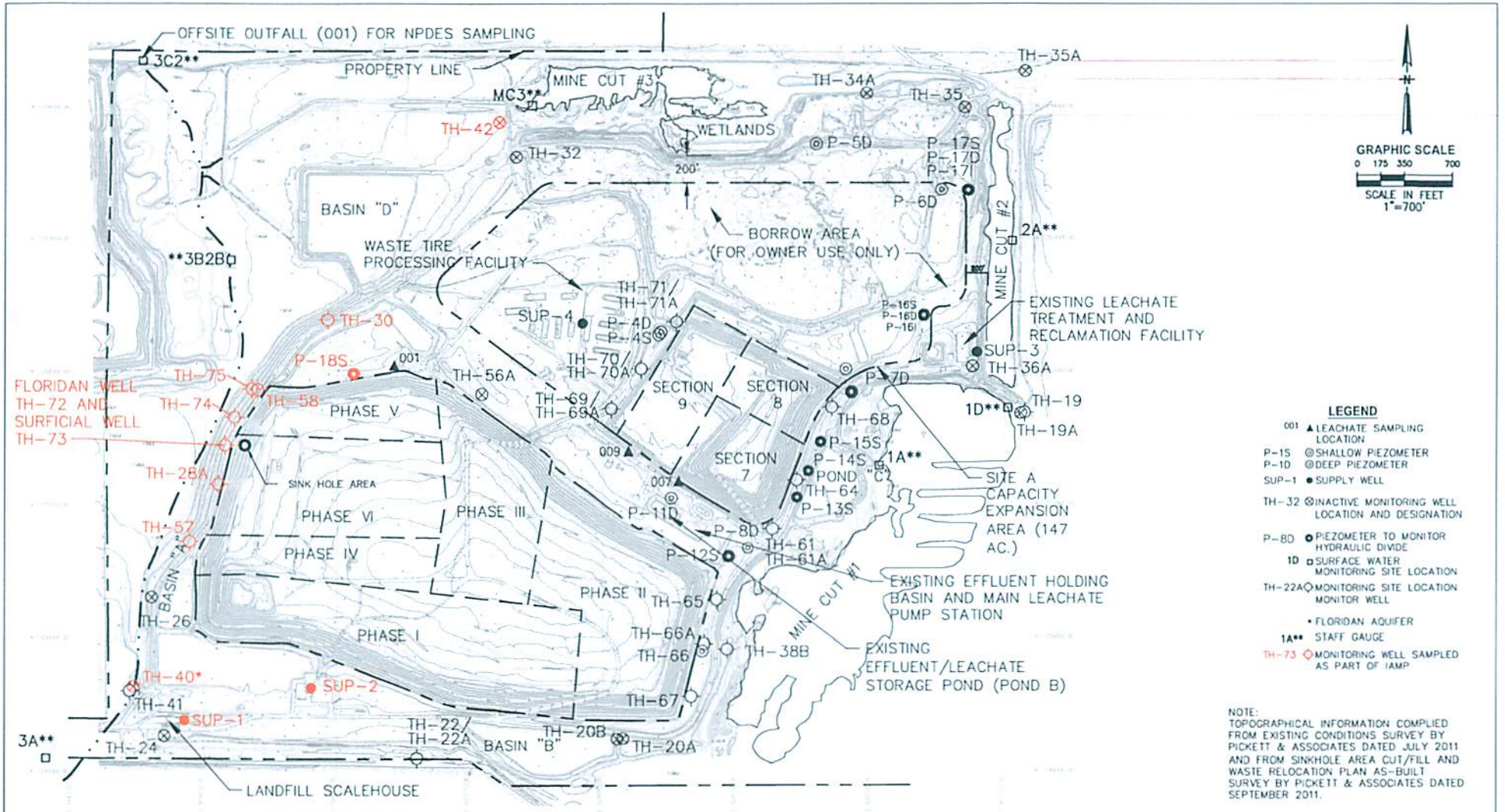
Final copy scanned to LFS/Southeast/Sinkhole/SCLF – IAMP Report No 16.



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

Hillsborough County Florida

SHEET TITLE

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

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

C:\pwworking\tpa\d0206713\Well Location Map - Revised 12-21-11.dwg, Plot, 12/21/2011 10:08:10 AM, bradjohn

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

GENERAL (mg/l)														
PARAMETERS	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	TH-74	TH-75	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
conductivity (umhos/cm) (field)	378	234	283	367	475	187	1307	528	1499	445	301	328	339	NS
dissolved oxygen (mg/l) (field)	0.26	1.12	0.16	0.54	0.21	0.26	0.99	1.92	0.62	0.89	0.46	0.07	0.37	NS
pH (field)	7.30	**5.30**	**4.66**	7.58	7.18	**5.32**	**5.86**	7.31	**5.30**	**5.64**	**5.57**	7.52	7.44	(6.5 - 8.5)**
temperature (°C) (field)	23.43	25.10	23.62	23.03	23.72	26.55	24.98	22.90	25.24	22.90	22.90	24.51	24.75	NS
turbidity (NTU) (field)	0.37	6.13	1.81	0.51	11.9	0.41	11.78	0.73	2.64	14.70	20.1	0.14	0.33	NS
total dissolved solids (mg/l)	220	120	160	170	280	96	**570**	320	**820**	270	150	200	190	500**
chloride (mg/l)	7.2	45	71	7.2	16	37	**260**	29	**500**	40	23	8.6	9.6	250**
ammonia nitrogen (mg/l as N)	0.26	1.2	1.2	0.33	0.21	1	0.77	0.32	**3**	2.3	1.1	0.16	0.19	2.8***
Metals: (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	TH-74	TH-75	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
arsenic	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	**0.026**	0.004 u	0.004 u	0.0042 i	**0.011**	0.004 u	0.004 u	0.01*
iron	0.05 u	**3.2**	0.24	0.05 u	**0.47**	**0.39**	**3.6**	0.13 i	**26**	**27**	**8.9**	0.05 u	0.05 u	0.3**
sodium	14	18	22	16	15	13	65	33	110	21	11	8.6	8.6	160*

Note: Ref. Groundwater Guidance Concentrations, FDEP 2007
MCL=MAXIMUM CONTAMINANT LEVEL
BDL=BELOW DETECTION LIMIT
NTU=NEPHELOMETRIC TURBIDITY UNITS
i = reported value between the laboratory method detection limit and the laboratory practical quantitation limit
u = parameter was analyzed but not detected.
*=DENOTES PRIMARY DRINKING WATER STANDARD
**=DENOTES SECONDARY DRINKING WATER STANDARD
***=DENOTES FLORIDA GUIDANCE CONCENTRATION
5.30 : EXCEEDS PRIMARY OR SECONDARY DRINKING WATER
ug/l=MICROGRAMS PER LITER
mg/l=MILLIGRAMS PER LITER
NS=NO STANDARD

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

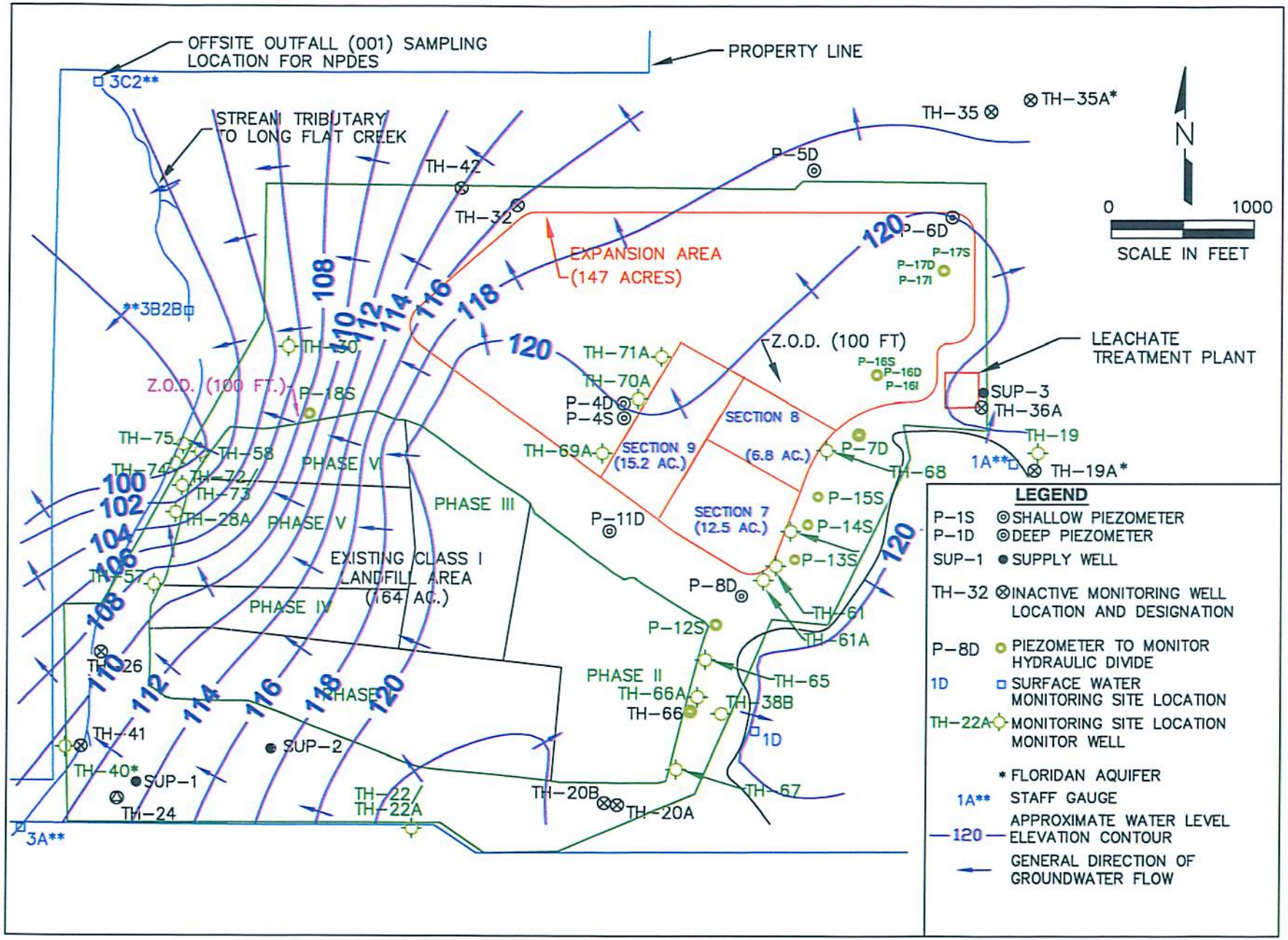
GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

December 7, 2011

Measuring Point I.D.	T.O.C. Elevations (NGVD)	12.7.11 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	21.69	119.09	10:27 AM
P-4S	140.95	Dry	Dry	10:28 AM
P-5D	151.94	Dry	Dry	11:01 AM
P-6D-A	148.01	27.25	120.76	10:55 AM
P-7D	138.92	17.82	121.10	11:32 AM
P-8D	138.34	18.11	120.23	11:52 AM
P-11D	138.02	17.20	120.82	10:19 AM
P-12S	134.97	14.20	120.77	11:54 AM
P-13S	140.21	19.28	120.93	11:46 AM
P-14S	138.56	17.55	121.01	11:42 AM
P-15S	139.19	18.20	120.99	11:40 AM
P-16S	143.38	16.40	126.98	10:48 AM
P-16I	144.15	23.97	120.18	10:47 AM
P-16D	143.84	23.70	120.14	10:46 AM
P-17S	137.35	15.62	121.73	11:08 AM
P-17I	137.32	17.00	120.32	11:09 AM
P-17D	137.22	17.04	120.18	11:10 AM
P-18S	129.86	18.44	111.42	10:14 AM
P-19	133.36	13.25	120.11	10:58 AM
P-20	132.38	12.73	119.65	10:50 AM
P-21	122.79	3.40	119.39	10:34 AM
P-22	128.35	8.79	119.56	10:38 AM
P-23	143.13	23.21	119.92	10:42 AM
TH-19*	130.27	101.64	28.63	11:20 AM
TH-20A	131.86	10.21	121.65	12:07 PM
TH-20B	132.57	11.20	121.37	12:08 PM
TH-22	128.82	5.62	123.20	9:02 AM
TH-22A	129.27	6.24	123.03	9:01 AM
TH-24A	128.23	6.09	122.14	9:08 AM
TH-28A	131.10	28.70	102.40	9:40 AM
TH-30	128.88	23.95	104.93	9:32 AM
TH-32	129.90	13.82	116.08	10:08 AM
TH-35	145.98	28.69	117.29	11:13 AM
TH-36A	152.70	33.10	119.60	11:23 AM
TH-38A	130.68	10.55	120.13	12:01 PM
TH-38B	131.81	11.36	120.45	12:02 PM
TH-40*	124.99	98.90	26.09	9:17 AM
TH-41*	125.00	102.02	22.98	9:16 AM
TH-42*	116.74	77.64	39.10	10:05 AM
TH-57	128.36	19.59	108.77	9:21 AM
TH-58	127.88	28.26	99.62	9:35 AM
TH-61	138.73	17.50	121.23	11:49 AM
TH-61A	139.45	18.10	121.35	11:50 AM
TH-64	139.64	17.74	121.90	11:44 AM
TH-65	135.40	14.60	120.80	11:56 AM
TH-66	130.58	9.47	121.11	11:58 AM
TH-66A	130.66	9.91	120.75	11:59 AM
TH-67	129.51	6.99	122.52	12:04 PM
TH-68	140.01	16.95	123.06	11:35 AM
TH-69A	144.97	25.19	119.78	10:22 AM
TH-70A	146.63	26.65	119.98	10:25 AM
TH-71A	146.95	26.35	120.60	10:31 AM
TH-72	130.96	106.80	24.16	9:38 AM
TH-73	131.07	31.96	99.11	9:37 AM
TH-74	109.08	10.11	98.97	9:26 AM
TH-75	106.92	7.90	99.02	9:28 AM
SW-3A	3.0'=125.53'	0.20	122.73	8:56 AM
SW-3B2B	3.0'=97.97'	Dry	Dry	9:47 AM
SW-3C2	6.0'=92.33'	1.18	87.51	9:52 AM
Mine Cut #1	4.0'=122.14'	2.00	120.14	11:38 AM
Mine Cut #2	6.0'=123.47'	2.50	119.97	11:16 AM
Mine Cut #3	4.0'=112.27'	1.90	110.17	10:03 AM
Mine Cut #4	5.0'=97.54'	1.48	94.02	9:59 AM

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



Southeast County Landfill

Groundwater Elevation Contour Diagram – December 7, 2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 660-45116-1
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:
12/22/2011 1:37:17 PM

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

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

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

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

Table of Contents

Definitions/Glossary

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

TestAmerica Job ID: 660-45116-1

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
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 660-45116-1

Laboratory: TestAmerica Tampa

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Narrative

Job Narrative
660-45116-1

Comments
No additional comments.

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

Metals
No analytical or quality issues were noted.

General Chemistry
Method 300.0: The matrix spike (MS) recovery for batch 118871 was outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 118920 were outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 118718 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 118710 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: 660-45116-1

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Client Sample ID: Blank, Equipment 45116 — Lab Sample ID: 660-45116-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	0.16		0.020	0.010	mg/L	1		350.1	Total/NA

Client Sample ID: Duplicate 45116 — Lab Sample ID: 660-45116-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.2		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.34		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS# 822 — Lab Sample ID: 660-45116-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.2		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
Total Dissolved Solids	170		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.58				SU	1		Field Sampling	Total/NA
Field Temperature	23.03				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.54				mg/L	1		Field Sampling	Total/NA
Specific Conductance	367				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.51				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-57 WACS# 1570 — Lab Sample ID: 660-45116-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	390		200	50	ug/L	1		6010B	Total Recovera
Sodium	13		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	37		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.0		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	96		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.32				SU	1		Field Sampling	Total/NA
Field Temperature	26.55				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.26				mg/L	1		Field Sampling	Total/NA
Specific Conductance	187				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.41				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-28A WACS# 19862 — Lab Sample ID: 660-45116-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3200		200	50	ug/L	1		6010B	Total Recovera
Sodium	18		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	45		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.2		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.30				SU	1		Field Sampling	Total/NA
Field Temperature	25.10				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.12				mg/L	1		Field Sampling	Total/NA
Specific Conductance	234				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.13				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-73 WACS# 27754 — Lab Sample ID: 660-45116-6

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Client Sample ID: TH-73 WACS# 27754 (Continued) — Lab Sample ID: 660-45116-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	26000		200	50	ug/L	1		6010B	Total Recovera
Sodium	110		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	500		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	3.0		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	820		25	25	mg/L	1		SM 2540C	Total/NA
Field pH	5.30				SU	1		Field Sampling	Total/NA
Field Temperature	25.24				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.62				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1499				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.64				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-58 WACS# 1571 — Lab Sample ID: 660-45116-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1		6010B	Total Recovera
Iron	3600		200	50	ug/L	1		6010B	Total Recovera
Sodium	65		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	260		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	0.77		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	570		25	25	mg/L	1		SM 2540C	Total/NA
Field pH	5.86				SU	1		Field Sampling	Total/NA
Field Temperature	24.98				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.99				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1307				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.78				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-30 WACS# 1065 — Lab Sample ID: 660-45116-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	240		200	50	ug/L	1		6010B	Total Recovera
Sodium	22		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	71		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.2		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.66				SU	1		Field Sampling	Total/NA
Field Temperature	23.62				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.16				mg/L	1		Field Sampling	Total/NA
Specific Conductance	283				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.81				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-72 WACS# 27753 — Lab Sample ID: 660-45132-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	130	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	33		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	29		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.32		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	320		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	22.90				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.92				mg/L	1		Field Sampling	Total/NA
Specific Conductance	528				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.73				NTU	1		Field Sampling	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-45116-1

5

Client Sample ID: SUP 1 WACS# 27755 — Lab Sample ID: 660-45132-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.6		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	8.6		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
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Temperature	24.51				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	328				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.14				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-19 WACS# 821 — Lab Sample ID: 660-45132-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.2		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.26		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.30				SU	1		Field Sampling	Total/NA
Field Temperature	23.43				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.26				mg/L	1		Field Sampling	Total/NA
Specific Conductance	378				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.37				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-42 WACS# 823 — Lab Sample ID: 660-45132-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	470		200	50	ug/L	1		6010B	Total Recovera
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	16		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.21		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Field Temperature	23.72				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.21				mg/L	1		Field Sampling	Total/NA
Specific Conductance	475				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.90				NTU	1		Field Sampling	Total/NA

Client Sample ID: SUP 2 WACS# 27756 — Lab Sample ID: 660-45132-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.6		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	9.6		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.19		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.44				SU	1		Field Sampling	Total/NA
Field Temperature	24.75				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.37				mg/L	1		Field Sampling	Total/NA
Specific Conductance	339				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.33				NTU	1		Field Sampling	Total/NA

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: Blank, Equipment 45116
Date Collected: 12/08/11 09:11
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:09	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 14:09	1
Sodium	0.31	U	0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			12/15/11 17:58	1
Ammonia as N	0.16		0.020	0.010	mg/L			12/14/11 11:34	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/15/11 16:26	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: Duplicate 45116
Date Collected: 12/08/11 00:00
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 13:56	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 13:56	1
Sodium	16		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 13:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		0.50	0.20	mg/L			12/15/11 18:15	1
Ammonia as N	0.34		0.020	0.010	mg/L			12/14/11 11:35	1
Total Dissolved Solids	190		10	10	mg/L			12/15/11 16:26	1

6

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-40 WACS# 822
Date Collected: 12/08/11 09:26
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-3
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:13	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 14:13	1
Sodium	16		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		0.50	0.20	mg/L			12/15/11 18:31	1
Ammonia as N	0.33		0.020	0.010	mg/L			12/14/11 11:36	1
Total Dissolved Solids	170		10	10	mg/L			12/15/11 16:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.58				SU			12/08/11 09:26	1
Field Temperature	23.03				Degrees C			12/08/11 09:26	1
Oxygen, Dissolved	0.54				mg/L			12/08/11 09:26	1
Specific Conductance	367				umhos/cm			12/08/11 09:26	1
Turbidity	0.51				NTU			12/08/11 09:26	1

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-57 WACS# 1570
Date Collected: 12/08/11 09:50
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-4
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:23	1
Iron	390		200	50	ug/L		12/15/11 11:19	12/16/11 14:23	1
Sodium	13		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		0.50	0.20	mg/L			12/15/11 18:48	1
Ammonia as N	1.0		0.020	0.010	mg/L			12/14/11 11:37	1
Total Dissolved Solids	96		5.0	5.0	mg/L			12/15/11 16:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.32				SU			12/08/11 09:50	1
Field Temperature	26.55				Degrees C			12/08/11 09:50	1
Oxygen, Dissolved	0.26				mg/L			12/08/11 09:50	1
Specific Conductance	187				umhos/cm			12/08/11 09:50	1
Turbidity	0.41				NTU			12/08/11 09:50	1

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-28A WACS# 19862
Date Collected: 12/08/11 10:10
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-5
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:26	1
Iron	3200		200	50	ug/L		12/15/11 11:19	12/16/11 14:26	1
Sodium	18		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		0.50	0.20	mg/L			12/15/11 19:04	1
Ammonia as N	1.2		0.020	0.010	mg/L			12/14/11 11:39	1
Total Dissolved Solids	120		5.0	5.0	mg/L			12/15/11 16:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.30				SU			12/08/11 10:10	1
Field Temperature	25.10				Degrees C			12/08/11 10:10	1
Oxygen, Dissolved	1.12				mg/L			12/08/11 10:10	1
Specific Conductance	234				umhos/cm			12/08/11 10:10	1
Turbidity	6.13				NTU			12/08/11 10:10	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-73 WACS# 27754
Date Collected: 12/08/11 10:34
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-6
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:29	1
Iron	26000		200	50	ug/L		12/15/11 11:19	12/16/11 14:29	1
Sodium	110		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		5.0	2.0	mg/L			12/19/11 10:59	10
Ammonia as N	3.0		0.020	0.010	mg/L			12/14/11 11:40	1
Total Dissolved Solids	820		25	25	mg/L			12/15/11 16:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.30				SU			12/08/11 10:34	1
Field Temperature	25.24				Degrees C			12/08/11 10:34	1
Oxygen, Dissolved	0.62				mg/L			12/08/11 10:34	1
Specific Conductance	1499				umhos/cm			12/08/11 10:34	1
Turbidity	2.64				NTU			12/08/11 10:34	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-58 WACS# 1571
Date Collected: 12/08/11 10:55
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-7
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		10	4.0	ug/L		12/15/11 11:19	12/16/11 14:33	1
Iron	3600		200	50	ug/L		12/15/11 11:19	12/16/11 14:33	1
Sodium	66		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.0	2.0	mg/L			12/15/11 19:37	10
Ammonia as N	0.77		0.020	0.010	mg/L			12/14/11 11:41	1
Total Dissolved Solids	570		25	25	mg/L			12/15/11 16:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.86				SU			12/08/11 10:55	1
Field Temperature	24.98				Degrees C			12/08/11 10:55	1
Oxygen, Dissolved	0.99				mg/L			12/08/11 10:55	1
Specific Conductance	1307				umhos/cm			12/08/11 10:55	1
Turbidity	11.78				NTU			12/08/11 10:55	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-30 WACS# 1065
Date Collected: 12/08/11 11:27
Date Received: 12/08/11 13:20

Lab Sample ID: 660-45116-8
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:36	1
Iron	240		200	50	ug/L		12/15/11 11:19	12/16/11 14:36	1
Sodium	22		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71		1.0	0.40	mg/L			12/15/11 19:54	2
Ammonia as N	1.2		0.020	0.010	mg/L			12/14/11 13:52	1
Total Dissolved Solids	160		5.0	5.0	mg/L			12/15/11 16:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.66				SU			12/08/11 11:27	1
Field Temperature	23.62				Degrees C			12/08/11 11:27	1
Oxygen, Dissolved	0.16				mg/L			12/08/11 11:27	1
Specific Conductance	283				umhos/cm			12/08/11 11:27	1
Turbidity	1.81				NTU			12/08/11 11:27	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-72 WACS# 27753
Date Collected: 12/09/11 09:55
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45132-1
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:40	1
Iron	130	I	200	50	ug/L		12/15/11 11:19	12/16/11 14:40	1
Sodium	33		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		0.50	0.20	mg/L			12/15/11 22:39	1
Ammonia as N	0.32		0.020	0.010	mg/L			12/14/11 14:00	1
Total Dissolved Solids	320		10	10	mg/L			12/16/11 12:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.31				SU			12/09/11 09:55	1
Field Temperature	22.90				Degrees C			12/09/11 09:55	1
Oxygen, Dissolved	1.92				mg/L			12/09/11 09:55	1
Specific Conductance	528				umhos/cm			12/09/11 09:55	1
Turbidity	0.73				NTU			12/09/11 09:55	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: SUP 1 WACS# 27755
Date Collected: 12/09/11 13:42
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45132-2
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:43	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 14:43	1
Sodium	8.6		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.6		0.50	0.20	mg/L			12/15/11 22:55	1
Ammonia as N	0.16		0.020	0.010	mg/L			12/14/11 14:01	1
Total Dissolved Solids	200		10	10	mg/L			12/16/11 12:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.52				SU			12/09/11 13:42	1
Field Temperature	24.51				Degrees C			12/09/11 13:42	1
Oxygen, Dissolved	0.07				mg/L			12/09/11 13:42	1
Specific Conductance	328				umhos/cm			12/09/11 13:42	1
Turbidity	0.14				NTU			12/09/11 13:42	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-19 WACS# 821
Date Collected: 12/09/11 11:08
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45132-3
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:46	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 14:46	1
Sodium	14		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		0.50	0.20	mg/L			12/15/11 23:12	1
Ammonia as N	0.26		0.020	0.010	mg/L			12/14/11 14:03	1
Total Dissolved Solids	220		10	10	mg/L			12/16/11 12:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.30				SU			12/09/11 11:08	1
Field Temperature	23.43				Degrees C			12/09/11 11:08	1
Oxygen, Dissolved	0.26				mg/L			12/09/11 11:08	1
Specific Conductance	378				umhos/cm			12/09/11 11:08	1
Turbidity	0.37				NTU			12/09/11 11:08	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: TH-42 WACS# 823
Date Collected: 12/09/11 10:37
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45132-4
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:50	1
Iron	470		200	50	ug/L		12/15/11 11:19	12/16/11 14:50	1
Sodium	15		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		0.50	0.20	mg/L			12/15/11 23:28	1
Ammonia as N	0.21		0.020	0.010	mg/L			12/14/11 14:04	1
Total Dissolved Solids	280		10	10	mg/L			12/16/11 12:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.18				SU			12/09/11 10:37	1
Field Temperature	23.72				Degrees C			12/09/11 10:37	1
Oxygen, Dissolved	0.21				mg/L			12/09/11 10:37	1
Specific Conductance	475				umhos/cm			12/09/11 10:37	1
Turbidity	11.90				NTU			12/09/11 10:37	1

Client Sample Results

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: SUP 2 WACS# 27756
Date Collected: 12/09/11 13:16
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45132-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 14:53	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 14:53	1
Sodium	8.6		0.50	0.31	mg/L		12/15/11 11:19	12/16/11 14:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		0.50	0.20	mg/L			12/15/11 23:45	1
Ammonia as N	0.19		0.020	0.010	mg/L			12/14/11 14:05	1
Total Dissolved Solids	190		10	10	mg/L			12/16/11 12:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.44				SU			12/09/11 13:16	1
Field Temperature	24.75				Degrees C			12/09/11 13:16	1
Oxygen, Dissolved	0.37				mg/L			12/09/11 13:16	1
Specific Conductance	339				umhos/cm			12/09/11 13:16	1
Turbidity	0.33				NTU			12/09/11 13:16	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-118772/1-A
Matrix: Water
Analysis Batch: 118834

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 118772

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/15/11 11:19	12/16/11 13:46	1
Iron	50	U	200	50	ug/L		12/15/11 11:19	12/16/11 13:46	1
Sodium	0.31	U	0.50	0.31	mg/L		12/15/11 11:19	12/16/11 13:46	1

Lab Sample ID: LCS 660-118772/2-A
Matrix: Water
Analysis Batch: 118834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 118772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1010		ug/L		101	75 - 125
Iron	1000	1030		ug/L		103	75 - 125
Sodium	10.0	9.87		mg/L		99	75 - 125

Lab Sample ID: 660-45116-2 MS
Matrix: Water
Analysis Batch: 118834

Client Sample ID: Duplicate 45116
Prep Type: Total Recoverable
Prep Batch: 118772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1020		ug/L		102	75 - 125
Iron	50	U	1000	1060		ug/L		106	75 - 125
Sodium	16		10.0	26.0		mg/L		100	75 - 125

Lab Sample ID: 660-45116-2 MSD
Matrix: Water
Analysis Batch: 118834

Client Sample ID: Duplicate 45116
Prep Type: Total Recoverable
Prep Batch: 118772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1030		ug/L		103	75 - 125	1	20
Iron	50	U	1000	1050		ug/L		105	75 - 125	1	20
Sodium	16		10.0	25.7		mg/L		97	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-118871/3
Matrix: Water
Analysis Batch: 118871

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			12/15/11 17:25	1

Lab Sample ID: LCS 660-118871/4
Matrix: Water
Analysis Batch: 118871

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	9.39		mg/L		94	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-45093-B-2 MS ^1060 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	83	J3	10600	20000	J3	mg/L		188	90 - 110

Lab Sample ID: 660-45093-B-2 MSD ^10 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	83	J3	100	188	J3	mg/L		105	90 - 110	196	30

Lab Sample ID: 660-45093-B-3 MS ^10 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	90		100	195		mg/L		106	90 - 110

Lab Sample ID: 660-45093-B-3 MSD ^10 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	90		100	193		mg/L		103	90 - 110	1	30

Lab Sample ID: MB 660-118920/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118920

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			12/19/11 07:57	1

Lab Sample ID: LCS 660-118920/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: 660-45090-H-1 MS ^10 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	360	J3	100	441	J3	mg/L		79	90 - 110

Lab Sample ID: 660-45090-H-1 MSD ^10 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 118920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	360	J3	100	428	J3	mg/L		65	90 - 110	3	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-118710/11
Matrix: Water
Analysis Batch: 118710

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			12/14/11 11:08	1

Lab Sample ID: LCS 660-118710/12
Matrix: Water
Analysis Batch: 118710

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	0.503		mg/L		101	90 - 110

Lab Sample ID: 660-45032-D-1 MS
Matrix: Water
Analysis Batch: 118710

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	0.45	J3	1.00	1.32	J3	mg/L		87	90 - 110

Lab Sample ID: 660-45032-D-1 MSD
Matrix: Water
Analysis Batch: 118710

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	0.45	J3	1.00	1.32	J3	mg/L		87	90 - 110	0	30

Lab Sample ID: MB 660-118718/11
Matrix: Water
Analysis Batch: 118718

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			12/14/11 13:36	1

Lab Sample ID: LCS 660-118718/12
Matrix: Water
Analysis Batch: 118718

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	0.505		mg/L		101	90 - 110

Lab Sample ID: 660-45131-A-1 MS
Matrix: Water
Analysis Batch: 118718

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	2.3	J3	1.00	3.10	J3	mg/L		79	90 - 110

Lab Sample ID: 660-45131-A-1 MSD
Matrix: Water
Analysis Batch: 118718

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	2.3	J3	1.00	3.14	J3	mg/L		83	90 - 110	1	30

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

Lab Sample ID: MB 660-118807/1
Matrix: Water
Analysis Batch: 118807

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/15/11 16:25	1

Lab Sample ID: LCS 660-118807/2
Matrix: Water
Analysis Batch: 118807

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	9900		mg/L		99	80 - 120

Lab Sample ID: 660-45116-2 DU
Matrix: Water
Analysis Batch: 118807

Client Sample ID: Duplicate 45116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		180		mg/L		4	20

Lab Sample ID: MB 660-118854/1
Matrix: Water
Analysis Batch: 118854

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/16/11 12:06	1

Lab Sample ID: LCS 660-118854/2
Matrix: Water
Analysis Batch: 118854

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	10000		mg/L		100	80 - 120

Lab Sample ID: 660-45131-D-1 DU
Matrix: Water
Analysis Batch: 118854

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	270		268		mg/L		0	20

Metals

Prep Batch: 118772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45116-1	Blank, Equipment 45116	Total Recoverable	Water	3005A	
660-45116-2	Duplicate 45116	Total Recoverable	Water	3005A	
660-45116-2 MS	Duplicate 45116	Total Recoverable	Water	3005A	
660-45116-2 MSD	Duplicate 45116	Total Recoverable	Water	3005A	
660-45116-3	TH-40 WACS# 822	Total Recoverable	Water	3005A	
660-45116-4	TH-57 WACS# 1570	Total Recoverable	Water	3005A	
660-45116-5	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
660-45116-6	TH-73 WACS# 27754	Total Recoverable	Water	3005A	
660-45116-7	TH-58 WACS# 1571	Total Recoverable	Water	3005A	
660-45116-8	TH-30 WACS# 1065	Total Recoverable	Water	3005A	
660-45132-1	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-45132-2	SUP 1 WACS# 27755	Total Recoverable	Water	3005A	
660-45132-3	TH-19 WACS# 821	Total Recoverable	Water	3005A	
660-45132-4	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-45132-5	SUP 2 WACS# 27756	Total Recoverable	Water	3005A	
LCS 660-118772/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-118772/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 118834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45116-1	Blank, Equipment 45116	Total Recoverable	Water	6010B	118772
660-45116-2	Duplicate 45116	Total Recoverable	Water	6010B	118772
660-45116-2 MS	Duplicate 45116	Total Recoverable	Water	6010B	118772
660-45116-2 MSD	Duplicate 45116	Total Recoverable	Water	6010B	118772
660-45116-3	TH-40 WACS# 822	Total Recoverable	Water	6010B	118772
660-45116-4	TH-57 WACS# 1570	Total Recoverable	Water	6010B	118772
660-45116-5	TH-28A WACS# 19862	Total Recoverable	Water	6010B	118772
660-45116-6	TH-73 WACS# 27754	Total Recoverable	Water	6010B	118772
660-45116-7	TH-58 WACS# 1571	Total Recoverable	Water	6010B	118772
660-45116-8	TH-30 WACS# 1065	Total Recoverable	Water	6010B	118772
660-45132-1	TH-72 WACS# 27753	Total Recoverable	Water	6010B	118772
660-45132-2	SUP 1 WACS# 27755	Total Recoverable	Water	6010B	118772
660-45132-3	TH-19 WACS# 821	Total Recoverable	Water	6010B	118772
660-45132-4	TH-42 WACS# 823	Total Recoverable	Water	6010B	118772
660-45132-5	SUP 2 WACS# 27756	Total Recoverable	Water	6010B	118772
LCS 660-118772/2-A	Lab Control Sample	Total Recoverable	Water	6010B	118772
MB 660-118772/1-A	Method Blank	Total Recoverable	Water	6010B	118772

General Chemistry

Analysis Batch: 118710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45032-D-1 MS	Matrix Spike	Total/NA	Water	350.1	
660-45032-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-45116-1	Blank, Equipment 45116	Total/NA	Water	350.1	
660-45116-2	Duplicate 45116	Total/NA	Water	350.1	
660-45116-3	TH-40 WACS# 822	Total/NA	Water	350.1	
660-45116-4	TH-57 WACS# 1570	Total/NA	Water	350.1	
660-45116-5	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-45116-6	TH-73 WACS# 27754	Total/NA	Water	350.1	
660-45116-7	TH-58 WACS# 1571	Total/NA	Water	350.1	
LCS 660-118710/12	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 118710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-118710/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 118718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45116-8	TH-30 WACS# 1065	Total/NA	Water	350.1	
660-45131-A-1 MS	Matrix Spike	Total/NA	Water	350.1	
660-45131-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-45132-1	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-45132-2	SUP 1 WACS# 27755	Total/NA	Water	350.1	
660-45132-3	TH-19 WACS# 821	Total/NA	Water	350.1	
660-45132-4	TH-42 WACS# 823	Total/NA	Water	350.1	
660-45132-5	SUP 2 WACS# 27756	Total/NA	Water	350.1	
LCS 660-118718/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-118718/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 118807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45116-1	Blank, Equipment 45116	Total/NA	Water	SM 2540C	
660-45116-2	Duplicate 45116	Total/NA	Water	SM 2540C	
660-45116-2 DU	Duplicate 45116	Total/NA	Water	SM 2540C	
660-45116-3	TH-40 WACS# 822	Total/NA	Water	SM 2540C	
660-45116-4	TH-57 WACS# 1570	Total/NA	Water	SM 2540C	
660-45116-5	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-45116-6	TH-73 WACS# 27754	Total/NA	Water	SM 2540C	
660-45116-7	TH-58 WACS# 1571	Total/NA	Water	SM 2540C	
660-45116-8	TH-30 WACS# 1065	Total/NA	Water	SM 2540C	
LCS 660-118807/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-118807/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 118854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45131-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-45132-1	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	
660-45132-2	SUP 1 WACS# 27755	Total/NA	Water	SM 2540C	
660-45132-3	TH-19 WACS# 821	Total/NA	Water	SM 2540C	
660-45132-4	TH-42 WACS# 823	Total/NA	Water	SM 2540C	
660-45132-5	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	
LCS 660-118854/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-118854/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 118871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45093-B-2 MS ^1060	Matrix Spike	Total/NA	Water	300.0	
660-45093-B-2 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-45093-B-3 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-45093-B-3 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-45116-1	Blank, Equipment 45116	Total/NA	Water	300.0	
660-45116-2	Duplicate 45116	Total/NA	Water	300.0	
660-45116-3	TH-40 WACS# 822	Total/NA	Water	300.0	
660-45116-4	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-45116-5	TH-28A WACS# 19862	Total/NA	Water	300.0	
660-45116-7	TH-58 WACS# 1571	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 118871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45116-8	TH-30 WACS# 1065	Total/NA	Water	300.0	
660-45132-1	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-45132-2	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-45132-3	TH-19 WACS# 821	Total/NA	Water	300.0	
660-45132-4	TH-42 WACS# 823	Total/NA	Water	300.0	
660-45132-5	SUP 2 WACS# 27756	Total/NA	Water	300.0	
LCS 660-118871/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-118871/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 118920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45090-H-1 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-45090-H-1 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-45116-6	TH-73 WACS# 27754	Total/NA	Water	300.0	
LCS 660-118920/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-118920/3	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 118688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45116-3	TH-40 WACS# 822	Total/NA	Water	Field Sampling	
660-45116-4	TH-57 WACS# 1570	Total/NA	Water	Field Sampling	
660-45116-5	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	
660-45116-6	TH-73 WACS# 27754	Total/NA	Water	Field Sampling	
660-45116-7	TH-58 WACS# 1571	Total/NA	Water	Field Sampling	
660-45116-8	TH-30 WACS# 1065	Total/NA	Water	Field Sampling	
660-45132-1	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-45132-2	SUP 1 WACS# 27755	Total/NA	Water	Field Sampling	
660-45132-3	TH-19 WACS# 821	Total/NA	Water	Field Sampling	
660-45132-4	TH-42 WACS# 823	Total/NA	Water	Field Sampling	
660-45132-5	SUP 2 WACS# 27756	Total/NA	Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: Blank, Equipment 45116

Lab Sample ID: 660-45116-1
Matrix: Water

Date Collected: 12/08/11 09:11
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:09	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:34	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:26	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 17:58	TS	TAL TAM

9

Client Sample ID: Duplicate 45116

Lab Sample ID: 660-45116-2
Matrix: Water

Date Collected: 12/08/11 00:00
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 13:56	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:35	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:26	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 18:15	TS	TAL TAM

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-45116-3
Matrix: Water

Date Collected: 12/08/11 09:26
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:13	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:36	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:27	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 18:31	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/08/11 09:26		TAL TAM

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-45116-4
Matrix: Water

Date Collected: 12/08/11 09:50
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:23	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:37	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:28	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 18:48	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/08/11 09:50		TAL TAM

Client Sample ID: TH-28A WACS# 19862 — **Lab Sample ID: 660-45116-5**
Date Collected: 12/08/11 10:10 — **Matrix: Water**
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:26	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:39	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:28	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 19:04	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/08/11 10:10		TAL TAM

Client Sample ID: TH-73 WACS# 27754 — **Lab Sample ID: 660-45116-6**
Date Collected: 12/08/11 10:34 — **Matrix: Water**
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:29	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:40	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:29	TO	TAL TAM
Total/NA	Analysis	300.0		10	118920	12/19/11 10:59	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/08/11 10:34		TAL TAM

Client Sample ID: TH-58 WACS# 1571 — **Lab Sample ID: 660-45116-7**
Date Collected: 12/08/11 10:55 — **Matrix: Water**
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:33	SR	TAL TAM
Total/NA	Analysis	350.1		1	118710	12/14/11 11:41	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:30	TO	TAL TAM
Total/NA	Analysis	300.0		10	118871	12/15/11 19:37	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/08/11 10:55		TAL TAM

Client Sample ID: TH-30 WACS# 1065 — **Lab Sample ID: 660-45116-8**
Date Collected: 12/08/11 11:27 — **Matrix: Water**
Date Received: 12/08/11 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:36	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 13:52	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118807	12/15/11 16:30	TO	TAL TAM
Total/NA	Analysis	300.0		2	118871	12/15/11 19:54	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/08/11 11:27		TAL TAM

Client Sample ID: TH-72 WACS# 27753 — **Lab Sample ID: 660-45132-1**
Date Collected: 12/09/11 09:55 — **Matrix: Water**
Date Received: 12/09/11 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:40	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 14:00	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:13	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 22:39	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 09:55		TAL TAM

9

Client Sample ID: SUP 1 WACS# 27755 — **Lab Sample ID: 660-45132-2**
Date Collected: 12/09/11 13:42 — **Matrix: Water**
Date Received: 12/09/11 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:43	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 14:01	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:14	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 22:55	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 13:42		TAL TAM

Client Sample ID: TH-19 WACS# 821 — **Lab Sample ID: 660-45132-3**
Date Collected: 12/09/11 11:08 — **Matrix: Water**
Date Received: 12/09/11 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:46	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 14:03	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:14	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 23:12	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 11:08		TAL TAM

Client Sample ID: TH-42 WACS# 823 — **Lab Sample ID: 660-45132-4**
Date Collected: 12/09/11 10:37 — **Matrix: Water**
Date Received: 12/09/11 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:50	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 14:04	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:15	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 23:28	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 10:37		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-45116-1

Client Sample ID: SUP 2 WACS# 27756
Date Collected: 12/09/11 13:16
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45132-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118772	12/15/11 11:19	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118834	12/16/11 14:53	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 14:05	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:15	TO	TAL TAM
Total/NA	Analysis	300.0		1	118871	12/15/11 23:45	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 13:16		TAL TAM

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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: 660-45116-1

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

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

Method Summary

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

TestAmerica Job ID: 660-45116-1

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: 660-45116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-45116-1	Blank, Equipment 45116	Water	12/08/11 09:11	12/08/11 13:20
660-45116-2	Duplicate 45116	Water	12/08/11 00:00	12/08/11 13:20
660-45116-3	TH-40 WACS# 822	Water	12/08/11 09:26	12/08/11 13:20
660-45116-4	TH-57 WACS# 1570	Water	12/08/11 09:50	12/08/11 13:20
660-45116-5	TH-28A WACS# 19862	Water	12/08/11 10:10	12/08/11 13:20
660-45116-6	TH-73 WACS# 27754	Water	12/08/11 10:34	12/08/11 13:20
660-45116-7	TH-58 WACS# 1571	Water	12/08/11 10:55	12/08/11 13:20
660-45116-8	TH-30 WACS# 1065	Water	12/08/11 11:27	12/08/11 13:20
660-45132-1	TH-72 WACS# 27753	Water	12/09/11 09:55	12/09/11 15:25
660-45132-2	SUP 1 WACS# 27755	Water	12/09/11 13:42	12/09/11 15:25
660-45132-3	TH-19 WACS# 821	Water	12/09/11 11:08	12/09/11 15:25
660-45132-4	TH-42 WACS# 823	Water	12/09/11 10:37	12/09/11 15:25
660-45132-5	SUP 2 WACS# 27756	Water	12/09/11 13:16	12/09/11 15:25

660-45116

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

FIELD PARAMETERS: N/A

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SAMPLE CONTAINERS

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

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

COLLECTED DATE | TIME
12.8.11 | 9:11

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENT`S: WO # 0053

3.1° C cool

660-45116

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

MONITORING WELLS DUPLICATE SAMPLE

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

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

ACCEPTED BY: Jim Clyatt REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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	

13

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

COLLECTED
DATE | TIME
12.8.11 | —

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clyatt REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENT`S: WO # 0053

660-45116

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: Lisa Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 165.90 Ft.
DEPTH TO WATER: 99.21 Ft.
LENGTH OF WATER COL: 66.69 Ft.
VOLUME TO PURGE: 10.67 Gal.

	DATE	TIME
PURGE STARTED:	12.8.11	9:11
PURGE RATE:	1:01	GPM.
PURGE ENDED:	12.8.11	9:29
ACT. VOL. PURGED:	15.00	GAL.
Draw Down:	99.19	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:22	23.09	348	7.57	0.53	0.52 =
↓	9:24	22.96	344	7.58	0.54	0.49
↓	9:24	23.03	347	7.58	0.54	0.51

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
12.8.11 | 9:29

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Lisa Clayton REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENT`S: WO # 0053

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660-45116

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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: 19.69 Ft.
LENGTH OF WATER COL: 7.14 Ft.
VOLUME TO PURGE: 1.14 Gal.

	DATE	TIME
PURGE STARTED:	12.8.11	9:40
PURGE RATE:	0.20 GPM.	
	DATE	TIME
PURGE ENDED:	12.8.11	9:50
ACT. VOL. PURGED:	2.00 GAL.	
Draw Down:	20.70	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:46	24.49	178	5.30	0.27	0.48 =
↓	9:48	26.53	183	5.32	0.27	0.49
↓	9:50	26.55	187	5.32	0.26	0.49

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	

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

COLLECTED
DATE | TIME
12.8.11 | 9:50

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Cassi Mehuley REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENTS: WO# 00053
H_2S odor

13

660-45116

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: Lin Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 34.30 Ft.
DEPTH TO WATER: 28.78 Ft.
LENGTH OF WATER COL: 5.43 Ft.
VOLUME TO PURGE: 0.87 Gal.

	DATE	TIME
PURGE STARTED:	12.8.11	10:00
PURGE RATE:	0.20 GPM.	
PURGE ENDED:	12.8.11	10:10
ACT. VOL. PURGED:	2.00 GAL.	
Draw Down:	29.30	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:06	25.06	235	5.34	1.15	4.28 =
↓	10:08	25.03	234	5.33	1.13	4.35
↓	10:10	25.10	234	5.30	1.12	4.13

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
12.8.11 | 10:10

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Lin Clayton REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Caroline Nulty REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENTS: WO # 0053

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660-45116

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

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

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: 2 INCH:
TOTAL DEPTH OF WELL: 43.40 Ft.
DEPTH TO WATER: 32.10 Ft.
LENGTH OF WATER COL: 11.30 Ft.
VOLUME TO PURGE: 1.80 Gal.

	DATE	TIME
PURGE STARTED:	12.8.11	10:23
PURGE RATE:	0.25	GPM.
PURGE ENDED:	12.8.11	10:34
ACT. VOL. PURGED:	2.72	GAL.
Draw Down:	32.25	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:30	25.33	1484	5.31	0.64	2.68 =
	10:32	25.27	1491	5.31	0.63	2.67
↓	10:34	25.29	1499	5.30	0.62	2.64

SAMPLE CONTAINERS

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

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

Colors and Sheens _____

COLLECTED
DATE | TIME
12.8.11 | 10:34

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Carl Mahaffey REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENT`S: WO # 0053

660-45116

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 32.92 Ft.
DEPTH TO WATER: 28.33 Ft.
LENGTH OF WATER COL: 4.59 Ft.
VOLUME TO PURGE: 0.73 Gal.

	DATE	TIME
PURGE STARTED:	12.8.11	10:47
PURGE RATE:		GPM.
PURGE ENDED:	12.8.11	10:55
ACT. VOL. PURGED:	1.60	GAL.
Draw Down:	28.45	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:51	24.99	1312	5.90	1.01	14.00 =
	10:53	25.04	1308	5.87	1.01	12.41
↓	10:55	24.98	1307	5.84	0.99	11.78

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
12.8.11 | 10:55

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. DATE | TIME 12.8.11 | 1:20
ACCEPTED BY: Ann McNulty REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENT`S: WO # 0053

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660-45116

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

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

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00 p

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

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

WELL DIAMETER: 2.00 INCH:
TOTAL DEPTH OF WELL: 46.19 Ft.
DEPTH TO WATER: 24.00 Ft.
LENGTH OF WATER COL: 22.19 Ft.
VOLUME TO PURGE: 3.55 Gal.

	DATE	TIME
PURGE STARTED:	12.8.11	11:09
PURGE RATE:	0.25 GPM.	
PURGE ENDED:	12.8.11	11:27
ACT. VOL. PURGED:	4.5 GAL.	
Draw Down:	24.14	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:23	23.60	280	4.69	0.20	1.83 =
|	11:25	23.60	281	4.68	0.16	1.79
↓	11:27	23.62	283	4.66	0.16	1.81

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
12.8.11 | 11:27

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.8.11 | 1:20
ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 12.8.11 | 1:20

COMMENT`S: WO # 0053
H2S Odor

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: 660-45732 DATE | TIME

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

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: 2 INCH:

TOTAL DEPTH OF WELL: 190.00 Ft.

DEPTH TO WATER: 107.23 Ft.

LENGTH OF WATER COL: 82.77 Ft.

VOLUME TO PURGE: 13.24 Gal.

	DATE	TIME
PURGE STARTED:	12.9.11	9:29
PURGE RATE:	0.40 GPM.	
PURGE ENDED:	12.9.11	9:55
ACT. VOL. PURGED:	15.4 GAL.	
Draw Down:	107.25	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:51	22.90	527	7.24	1.61	6.72 =
↓	9:53	22.91	527	7.32	1.93	0.72
↓	9:55	22.90	528	7.31	1.92	0.73

SAMPLE CONTAINERS

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

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

Colors and Sheens _____

COLLECTED
DATE | TIME
12.9.11 | 9:55

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. DATE 12.9.11 | TIME 3:25

ACCEPTED BY: _____ REP. OF CONTRACT LAB. DATE 12.9.11 | TIME 3:25

COMMENT`S: WO # 0053 3.1° CL-07

~~TPH~~ H2S odor

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

PRECLEANED SAMPLE CONTAINERS: 610-45132 DATE | TIME

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

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 12.9.11 TIME 1:23
ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	1:38	24.48	328	7.52	0.07	0.33 =
↓	1:40	24.48	328	7.53	0.07	0.59
↓	1:42	24.51	328	7.52	0.07	0.14

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
12.9.11	1:42

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.9.11 | 3:25
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 12.9.11 | 3:25

COMMENT`S: WO# 0053

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

PRECLEANED SAMPLE CONTAINERS: 660-45132 DATE | TIME

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

ACCEPTED BY: Jim Clyatt REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: **2.0** INCH:
TOTAL DEPTH OF WELL: **153.60** Ft.
DEPTH TO WATER: 102.11 Ft.
LENGTH OF WATER COL: 51.49 Ft.
VOLUME TO PURGE: 8.24 Gal.

	DATE	TIME
PURGE STARTED:	12.9.11	10:54
PURGE RATE:	1.00 GPM.	
PURGE ENDED:	12.9.11	11:08
ACT. VOL. PURGED:	14.00 GAL.	
Draw Down:	102.46	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:04	23.43	378	7.32	0.29	0.81 =
↓	11:06	23.43	378	7.30	0.27	0.42
↓	11:08	23.43	378	7.30	0.24	0.37

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
12.9.11 | 11:08

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: Jim Clyatt REP. OF SOLID WASTE DEPT. 12.9.11 | 3:25
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 12.9.11 | 3:25

COMMENT`S: WO # 0053

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

PRECLEANED SAMPLE CONTAINERS: 660-45132 DATE | TIME

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

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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

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

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 164.00 Ft.
DEPTH TO WATER: 77.81 Ft.
LENGTH OF WATER COL: 86.19 Ft.
VOLUME TO PURGE: 13.79 Gal.

	DATE	TIME
PURGE STARTED:	12.9.11	10:10
PURGE RATE:	0.40 GPM.	
	DATE	TIME
PURGE ENDED:	12.9.11	10:37
ACT. VOL. PURGED:	14.20 GAL.	
Draw Down:	101.22	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:33	23.69	475	7.18	0.21	8.97
↓	10:35	23.70	475	7.17	0.21	10.20
↓	10:37	23.72	475	7.18	0.21	11.90

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
12.9.11 | 10:37

ANALYSIS REQUESTED:

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

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.9.11 | 3:25
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 12.9.11 | 3:25

COMMENT`S: WO# 0053

13

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

PRECLEANED SAMPLE CONTAINERS: 660-45132 DATE | TIME

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

ACCEPTED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

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 12.9.11 TIME 12:57
ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	1:12	24.72	341	7.43	0.45	0.35 =
	1:14	24.68	340	7.43	0.42	0.23
↓	1:16	24.75	339	7.44	0.37	0.33

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	

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

COLLECTED
DATE | TIME
12.9.11 | 1:16

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: Jim Clayton REP. OF SOLID WASTE DEPT. 12.9.11 | 3:25
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 12.9.11 | 3:25

COMMENTS: WO # 0053

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-45116-1

Login Number: 45116
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1c 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	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-45116-1

Login Number: 45132
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1c 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	

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: 660-45131-1
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:
12/22/2011 1:35:33 PM

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

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

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

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

Table of Contents

Definitions/Glossary

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

TestAmerica Job ID: 660-45131-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
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
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 660-45131-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-45131-1

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 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 118718 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-45131-1

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Client Sample ID: TH-74 — Lab Sample ID: 660-45131-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2	I	10	4.0	ug/L	1		6010B	Total Recovera
Iron	27000		200	50	ug/L	1		6010B	Total Recovera
Sodium	21		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	40		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	2.3	J3	0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	270		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.64				SU	1		Field Sampling	Total/NA
Field Temperature	22.90				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.89				mg/L	1		Field Sampling	Total/NA
Specific Conductance	445				umhos/cm	1		Field Sampling	Total/NA
Turbidity	14.70				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-75 — Lab Sample ID: 660-45131-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		10	4.0	ug/L	1		6010B	Total Recovera
Iron	8900		200	50	ug/L	1		6010B	Total Recovera
Sodium	11		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	23		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.1		0.020	0.010	mg/L	1		350.1	Total/NA
Total Dissolved Solids	150		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.57				SU	1		Field Sampling	Total/NA
Field Temperature	22.90				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.46				mg/L	1		Field Sampling	Total/NA
Specific Conductance	301				umhos/cm	1		Field Sampling	Total/NA
Turbidity	20.1				NTU	1		Field Sampling	Total/NA

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

TestAmerica Job ID: 660-45131-1

Client Sample ID: TH-74
Date Collected: 12/09/11 11:39
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45131-1
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	I	10	4.0	ug/L		12/13/11 09:25	12/14/11 14:03	1
Iron	27000		200	50	ug/L		12/13/11 09:25	12/14/11 14:03	1
Sodium	21		0.50	0.31	mg/L		12/13/11 09:25	12/14/11 14:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40		5.0	2.0	mg/L			12/15/11 15:30	10
Ammonia as N	2.3	J3	0.020	0.010	mg/L			12/14/11 13:55	1
Total Dissolved Solids	270		10	10	mg/L			12/16/11 12:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.64				SU			12/09/11 11:39	1
Field Temperature	22.90				Degrees C			12/09/11 11:39	1
Oxygen, Dissolved	0.89				mg/L			12/09/11 11:39	1
Specific Conductance	445				umhos/cm			12/09/11 11:39	1
Turbidity	14.70				NTU			12/09/11 11:39	1

Client Sample Results

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

TestAmerica Job ID: 660-45131-1

Client Sample ID: TH-75
Date Collected: 12/09/11 12:04
Date Received: 12/09/11 15:25

Lab Sample ID: 660-45131-2
Matrix: Water

6

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		10	4.0	ug/L		12/13/11 09:25	12/14/11 14:06	1
Iron	8900		200	50	ug/L		12/13/11 09:25	12/14/11 14:06	1
Sodium	11		0.50	0.31	mg/L		12/13/11 09:25	12/14/11 14:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		0.50	0.20	mg/L			12/15/11 15:46	1
Ammonia as N	1.1		0.020	0.010	mg/L			12/14/11 13:59	1
Total Dissolved Solids	150		10	10	mg/L			12/16/11 12:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.57				SU			12/09/11 12:04	1
Field Temperature	22.90				Degrees C			12/09/11 12:04	1
Oxygen, Dissolved	0.46				mg/L			12/09/11 12:04	1
Specific Conductance	301				umhos/cm			12/09/11 12:04	1
Turbidity	20.1				NTU			12/09/11 12:04	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-118621/1-A
Matrix: Water
Analysis Batch: 118713

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 118621

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		12/13/11 09:25	12/14/11 12:39	1
Iron	50	U	200	50	ug/L		12/13/11 09:25	12/14/11 12:39	1
Sodium	0.31	U	0.50	0.31	mg/L		12/13/11 09:25	12/14/11 12:39	1

Lab Sample ID: LCS 660-118621/2-A
Matrix: Water
Analysis Batch: 118713

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 118621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1010		ug/L		101	75 - 125
Iron	1000	1040		ug/L		104	75 - 125
Sodium	10.0	9.87		mg/L		99	75 - 125

Lab Sample ID: 660-45064-C-7-B MS
Matrix: Water
Analysis Batch: 118713

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 118621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1030		ug/L		103	75 - 125
Iron	290		1000	1330		ug/L		104	75 - 125
Sodium	11		10.0	20.5		mg/L		96	75 - 125

Lab Sample ID: 660-45064-C-7-C MSD
Matrix: Water
Analysis Batch: 118713

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 118621

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1030		ug/L		103	75 - 125	0	20
Iron	290		1000	1320		ug/L		103	75 - 125	0	20
Sodium	11		10.0	20.6		mg/L		96	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-118792/3
Matrix: Water
Analysis Batch: 118792

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			12/15/11 09:26	1

Lab Sample ID: LCS 660-118792/4
Matrix: Water
Analysis Batch: 118792

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	9.31		mg/L		93	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-45106-F-1 MS ^10
Matrix: Water
Analysis Batch: 118792

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	330		100	432		mg/L		99	90 - 110

Lab Sample ID: 660-45106-F-1 MSD ^10
Matrix: Water
Analysis Batch: 118792

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	330		100	429		mg/L		97	90 - 110	1	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-118718/11
Matrix: Water
Analysis Batch: 118718

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			12/14/11 13:36	1

Lab Sample ID: LCS 660-118718/12
Matrix: Water
Analysis Batch: 118718

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	0.505		mg/L		101	90 - 110

Lab Sample ID: 660-45131-1 MS
Matrix: Water
Analysis Batch: 118718

Client Sample ID: TH-74
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.3	J3	1.00	3.10	J3	mg/L		79	90 - 110

Lab Sample ID: 660-45131-1 MSD
Matrix: Water
Analysis Batch: 118718

Client Sample ID: TH-74
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	2.3	J3	1.00	3.14	J3	mg/L		83	90 - 110	1	30

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

Lab Sample ID: MB 660-118854/1
Matrix: Water
Analysis Batch: 118854

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/16/11 12:06	1

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

Lab Sample ID: LCS 660-118854/2
Matrix: Water
Analysis Batch: 118854

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	10000		mg/L		100	80 - 120

Lab Sample ID: 660-45131-1 DU
Matrix: Water
Analysis Batch: 118854

Client Sample ID: TH-74
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	270		268		mg/L		0	20

Metals

Prep Batch: 118621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45064-C-7-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-45064-C-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-45131-1	TH-74	Total Recoverable	Water	3005A	
660-45131-2	TH-75	Total Recoverable	Water	3005A	
LCS 660-118621/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-118621/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 118713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45064-C-7-B MS	Matrix Spike	Total Recoverable	Water	6010B	118621
660-45064-C-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	118621
660-45131-1	TH-74	Total Recoverable	Water	6010B	118621
660-45131-2	TH-75	Total Recoverable	Water	6010B	118621
LCS 660-118621/2-A	Lab Control Sample	Total Recoverable	Water	6010B	118621
MB 660-118621/1-A	Method Blank	Total Recoverable	Water	6010B	118621

General Chemistry

Analysis Batch: 118718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45131-1	TH-74	Total/NA	Water	350.1	
660-45131-1 MS	TH-74	Total/NA	Water	350.1	
660-45131-1 MSD	TH-74	Total/NA	Water	350.1	
660-45131-2	TH-75	Total/NA	Water	350.1	
LCS 660-118718/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-118718/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 118792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45106-F-1 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-45106-F-1 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-45131-1	TH-74	Total/NA	Water	300.0	
660-45131-2	TH-75	Total/NA	Water	300.0	
LCS 660-118792/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-118792/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 118854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45131-1	TH-74	Total/NA	Water	SM 2540C	
660-45131-1 DU	TH-74	Total/NA	Water	SM 2540C	
660-45131-2	TH-75	Total/NA	Water	SM 2540C	
LCS 660-118854/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-118854/1	Method Blank	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 118688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-45131-1	TH-74	Total/NA	Water	Field Sampling	
660-45131-2	TH-75	Total/NA	Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-45131-1

Client Sample ID: TH-74

Lab Sample ID: 660-45131-1

Date Collected: 12/09/11 11:39
Matrix: Water
Date Received: 12/09/11 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118621	12/13/11 09:25	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118713	12/14/11 14:03	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 13:55	TO	TAL TAM
Total/NA	Analysis	300.0		10	118792	12/15/11 15:30	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:10	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 11:39		TAL TAM

9

Client Sample ID: TH-75

Lab Sample ID: 660-45131-2

Date Collected: 12/09/11 12:04
Matrix: Water
Date Received: 12/09/11 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			118621	12/13/11 09:25	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	118713	12/14/11 14:06	SR	TAL TAM
Total/NA	Analysis	350.1		1	118718	12/14/11 13:59	TO	TAL TAM
Total/NA	Analysis	300.0		1	118792	12/15/11 15:46	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	118854	12/16/11 12:13	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	118688	12/09/11 12:04		TAL TAM

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 660-45131-1

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

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

Method Summary

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

TestAmerica Job ID: 660-45131-1

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: 660-45131-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-45131-1	TH-74	Water	12/09/11 11:39	12/09/11 15:25
660-45131-2	TH-75	Water	12/09/11 12:04	12/09/11 15:25

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

PRECLEANED SAMPLE CONTAINERS: 660-45131 DATE | TIME

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

ACCEPTED BY: Jim Clapp REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

LOCATION: TH-74 WACS# SAMPLE MATRIX: WATER OTHER MATRIX: ____

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

WELL DIAMETER: 2 INCH:
TOTAL DEPTH OF WELL: 17.00 Ft.
DEPTH TO WATER: 10.19 Ft.
LENGTH OF WATER COL: 6.81 Ft.
VOLUME TO PURGE: 1.09 Gal.

	DATE	TIME
PURGE STARTED:	12.9.11	11:30
PURGE RATE:	0.20	GPM.
PURGE ENDED:	12.9.11	11:39
ACT. VOL. PURGED:	1.80	GAL.
Draw Down:	10.85	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
AB JC	11:35	22.91	445	5.65	0.92	15.80	=
	11:37	22.91	445	5.63	0.83	15.00	
↓	11:39	22.96	445	5.64	0.89	14.76	

SAMPLE CONTAINERS

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

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

Colors and Sheens _____

COLLECTED
DATE | TIME
12.9.11 | 11:39

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:
RELINQUISHED BY: Jim Clapp REP. OF SOLID WASTE DEPT. DATE | TIME 12.9.11 | 3:25
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 12.9.11 | 3:25

COMMENTS: WO# 60053 3.1% Ch-07

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

PRECLEANED SAMPLE CONTAINERS: 660-45131 DATE | TIME

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

ACCEPTED BY: Lin Clayton REP. OF SOLID WASTE DEPT. 12.2.11 | 1:00

LOCATION: TH-75 WACS# SAMPLE MATRIX: WATER OTHER MATRIX: ____

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

WELL DIAMETER: 2 INCH:
TOTAL DEPTH OF WELL: 17.00 Ft.
DEPTH TO WATER: 7.98 Ft.
LENGTH OF WATER COL: 9.02 Ft.
VOLUME TO PURGE: 1.44 Gal.

	DATE	TIME
PURGE STARTED:	12.9.11	11:53
PURGE RATE:	0.20	GPM.
	DATE	TIME
PURGE ENDED:	12.9.11	12:04
ACT. VOL. PURGED:	2.20	GAL.
Draw Down:	8.22	~~1.44~~

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:00	22.90	309	5.56	0.45	24.8 =
↓	12:02	22.90	307	5.55	0.45	21.5
↓	12:04	22.90	309	5.57	0.46	20.1

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SAMPLE CONTAINERS

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

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

Colors and Sheens _____

COLLECTED
DATE | TIME
12.9.11 | 12:04

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

			DATE	TIME
RELINQUISHED BY:	Lin Clayton	REP. OF SOLID WASTE DEPT.	12.9.11	3:25
ACCEPTED BY:	[signature]	REP. OF CONTRACT LAB.	12.9.11	3:25

COMMENT`S: WO # 0053

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-45131-1

Login Number: 45131
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1c 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	