Hillsborough County
Florida

Office of the County Administrator
Michael S. Merrill

September 2, 2011

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

RE: **Southeast County Landfill**
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 12

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of the continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address any potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. The monthly sampling event was conducted on August 4-5, 2011, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

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

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

pH

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values range in value from 4.49 to 5.60 pH units. As previously discussed, the pH values within the surficial aquifer at the site have historically been below the acceptable range, and the observed values are consistent with the historical and background water qualities at the SCLF. The pH values observed in the four (4) upper Floridan monitoring wells and the two (2) on-site supply wells were all within the SDWS acceptable range during this sampling event, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. The turbidity values in P-18S and TH-42 have been elevated since they were first sampled as part of the IAMP. However, the values have been steadily declining in these two wells over the period of record. The turbidity value in P-18S could not be reduced to below 20 NTU, so the sample was collected from TH-30. As previously discussed, the soils encountered during the installation of P-18S were primarily clays and clayey sands, which are known to create very turbid groundwater conditions. Although purging and further development of this former piezometer has significantly reduced the turbidity, it is unlikely that turbidity will be reduced to below the 20 NTU value in P-18S. The turbidity value recorded in TH-42 was 18.3 NTU, indicating that the development of this previously unused monitoring well has been effective.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring well, TH-58, exhibited a TDS concentration of 1,700 mg/l, which exceeds the SDWS of 500 mg/l and is a significant increase from last months value of 580 mg/l. Over the period of record, TDS values began to trend upward during the June sampling event and have steadily increased since. The values may be attributable to the initial stabilization grouting and the associated liquids pumped into the subsurface at the sinkhole; however, the County will continue to evaluate the water quality in TH-58, separate from the work being conducted as part of the IAMP.

Chloride

Surficial aquifer groundwater monitoring well, TH-58, exhibited chloride at a concentration of 660 mg/l, which is above the SDWS of 250 mg/l. Over the period of record, TDS values began to trend upward during the June sampling event and have steadily increased since. The values may be attributable to the initial stabilization grouting and the associated liquids pumped into the subsurface at the sinkhole. The County continues to evaluate the water quality in TH-58, separate from the work being conducted as part of the IAMP. The chloride values in all the other wells are well below the SDWS.

Arsenic

The arsenic observed in TH-58 is 0.028 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present above the PDWS in TH-58 for several years. The County has maintained the position that the arsenic is naturally occurring within the soils surrounding the well and is likely being mobilized in the anaerobic environment below the lined landfill. Although changes in water quality have been observed in TH-58, the arsenic values have remained comparatively stable. The County intends to further evaluate water quality and the direction of flow within the surficial aquifer in the vicinity of TH-58.

Iron

Iron concentrations in four (4) surficial aquifer wells and one upper Floridan well were observed above the SDWS of 0.3 mg/l. The concentrations of iron ranged from below the detection limit (BDL) to 16 mg/l. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are likely naturally occurring and/or the result of past strip mining activities. The iron value observed in TH-42 at 0.52 mg/l appears to be attributable to potential turbidity associated bias.

Conclusions

The water quality observed in the samples collected as part of the IAMP at the Southeast County Landfill remains consistent with the historical data set for the site. However, the County is currently evaluating the changes in water quality at TH-58, and is working to install additional surficial aquifer monitoring wells in the down gradient direction to evaluate the lateral extent of the impacts observed in TH-58. The proposed construction details of these wells and their locations have recently been approved by the FDEP, and the County will be conducting this work in the month of September.

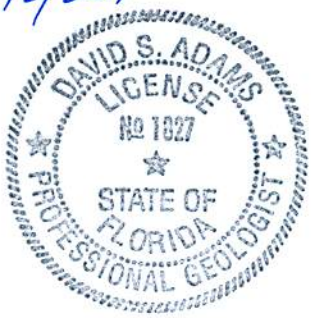
Recommendations

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

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

Respectfully submitted,

David S. Adams, P.G 9/2/2011
Environmental Manager
Public Utilities Department



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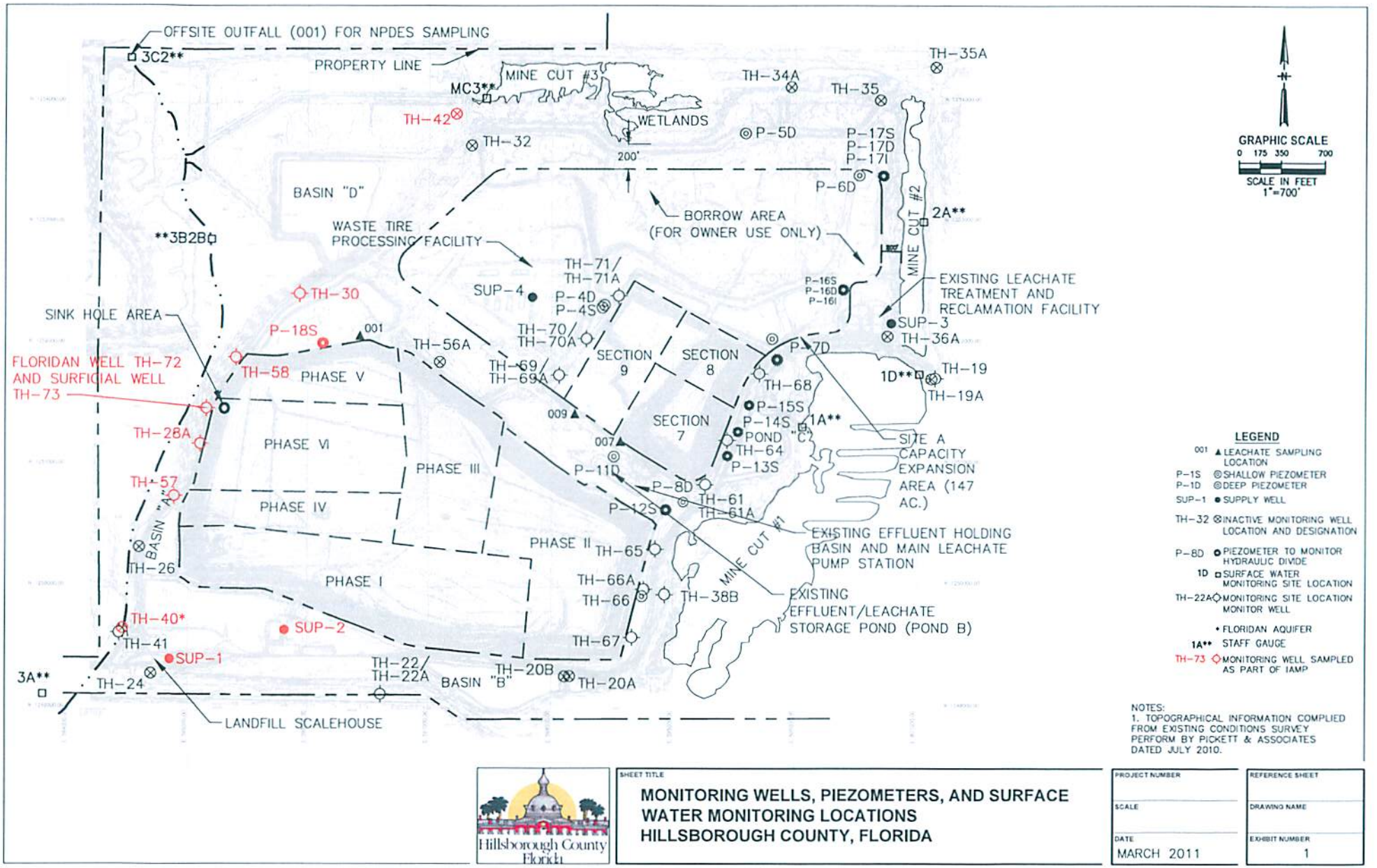
Final copy scanned to LFS/Southeast/Sinkhole/SCLF – IAMP Report No 12.



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

Hillsborough County Florida

SHEET TITLE

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

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

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

Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
August 4-5, 2011

GENERAL (mg/l) PARAMETERS	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
conductivity (umhos/cm) (field)	391	206	244	361	493	211	2167	564	262	337	348	NS
dissolved oxygen (mg/l) (field)	0.30	0.97	0.17	0.34	0.13	0.15	0.39	0.33	0.89	0.03	0.10	NS
pH (field)	7.22	**5.20**	**4.49**	7.52	7.23	**5.02**	**5.60**	7.29	**5.12**	7.49	7.56	(6.5 - 8.5)**
temperature (°C) (field)	23.55	27.28	23.43	23.64	24.02	26.26	26.10	23.18	25.44	24.54	25.87	NS
turbidity (NTU) (field)	0	11.5	3.3	0	18.3	0.3	2.1	0.4	19.9	0.1	0	NS
total dissolved solids (mg/l)	250	130	160	220	300	150	**1700**	360	140	230	240	500**
chloride (mg/l)	7.5 v	43	63 v	7.3 v	17 v	47	**660 v**	33	60	9.1 v	11 v	250**
ammonia nitrogen (mg/l as N)	0.32	0.67	1.5	0.4	0.094	0.76	1.6	0.21	1.2	0.27	0.2	2.8***
Metals: (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	(MCL) STANDARD F.A.C. 62-550
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	**0.028**	BDL	BDL	BDL	BDL	0.01*
iron	BDL	**3.1**	0.23	BDL	**0.52**	**0.63**	**16**	0.18 i	**8.2**	BDL	BDL	0.3**
sodium	14	16	21	16	16	13	150	34	24	8.4	11	160*

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

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

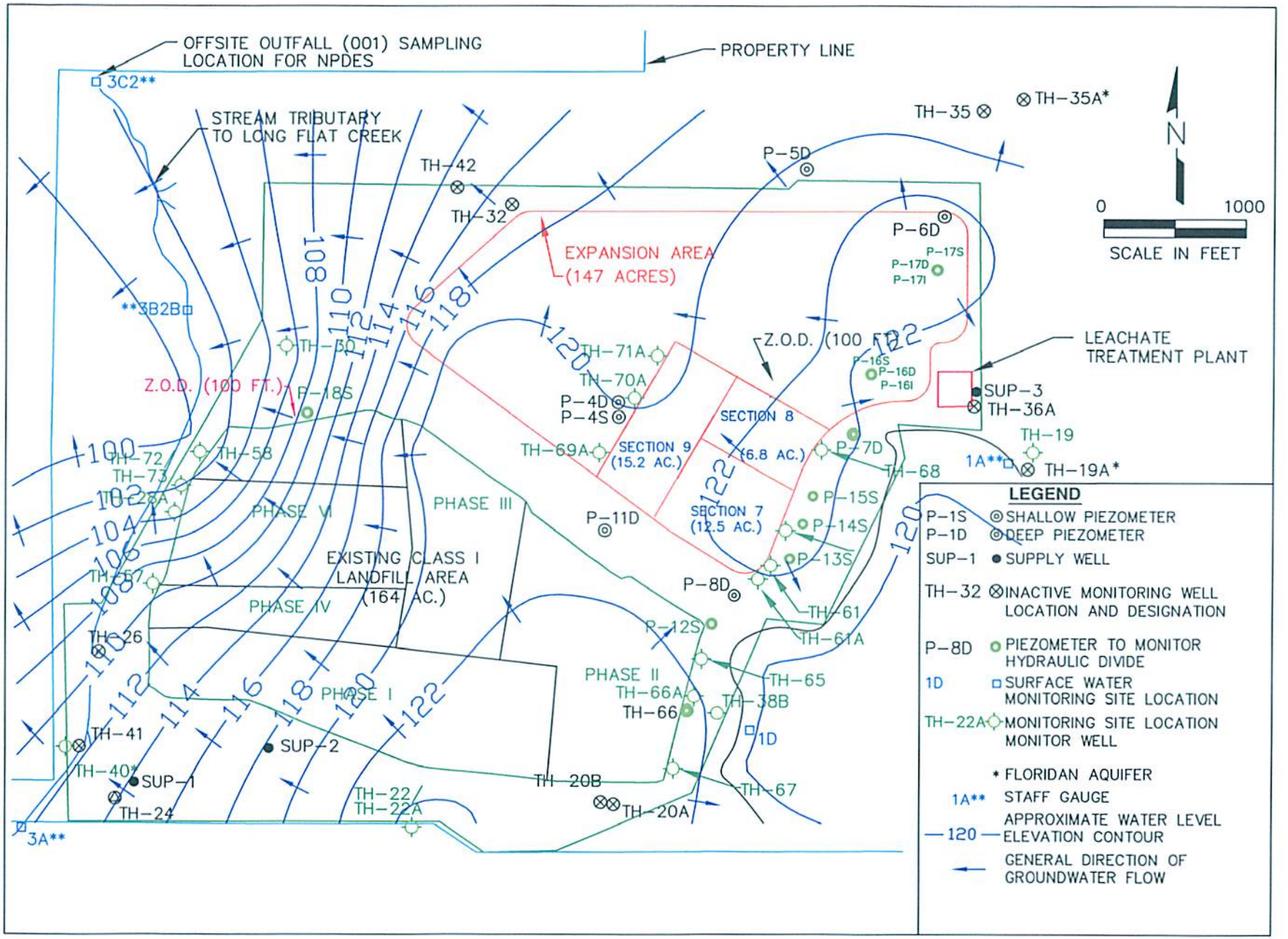
GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

August 3, 2011

Measuring Point I.D.	T.O.C. Elevations (NGVD)	8/3/2011 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	21.85	118.93	9:51 AM
P-4S	140.95	Dry	Dry	9:50 AM
P-5D	151.94	Dry	Dry	10:24 AM
P-6D-A	148.01	24.22	123.79	10:15 AM
P-7D	138.92	16.40	122.52	11:02 AM
P-8D	138.34	17.52	120.82	9:36 AM
P-11D	138.02	16.98	121.04	9:38 AM
P-12S	134.97	13.52	121.45	9:35 AM
P-13S	140.21	17.45	122.76	10:49 AM
P-14S	138.56	15.61	122.95	10:52 AM
P-15S	139.19	16.55	122.64	10:55 AM
P-16S	143.38	16.20	127.18	10:41 AM
P-16I	144.15	23.30	120.85	10:42 AM
P-16D	143.84	23.02	120.82	10:43 AM
P-17S	137.35	11.90	125.45	10:37 AM
P-17I	137.32	14.75	122.57	10:36 AM
P-17D	137.22	15.06	122.16	10:35 AM
P-18S	129.86	18.25	111.61	11:34 AM
P-19	133.36	9.60	123.76	10:19 AM
P-20	132.38	11.00	121.38	10:11 AM
P-21	122.79	1.54	121.25	10:00 AM
P-22	128.35	7.24	121.11	10:03 AM
P-23	143.13	22.20	120.93	10:06 AM
TH-19*	130.27	99.25	31.02	11:09 AM
TH-20A	131.86	8.72	123.14	9:20 AM
TH-20B	132.57	9.58	122.99	9:21 AM
TH-22	128.82	4.28	124.54	9:01 AM
TH-22A	129.27	4.89	124.38	9:00 AM
TH-24A	128.23	3.80	124.43	8:56 AM
TH-26	125.65	Dry	Dry	12:03 PM
TH-28A	131.10	27.95	103.15	11:59 AM
TH-30	128.88	23.84	105.04	11:51 AM
TH-32	129.90	12.99	116.91	11:29 AM
TH-35	145.98	27.59	118.39	10:30 AM
TH-36A	152.70	32.82	119.88	11:05 AM
TH-38A	130.68	9.95	120.73	9:30 AM
TH-38B	131.81	10.61	121.20	9:29 AM
TH-40*	124.99	95.76	29.23	9:06 AM
TH-41*	125.00	98.15	26.85	9:07 AM
TH-42*	116.74	78.31	38.43	11:26 AM
TH-57	128.36	19.20	109.16	12:01 PM
TH-58	127.88	27.61	100.27	11:54 AM
TH-61	138.73	16.49	122.24	10:46 AM
TH-61A	139.45	16.64	122.81	10:47 AM
TH-64	139.64	16.00	123.64	10:51 AM
TH-65	135.40	14.10	121.30	9:32 AM
TH-66	130.58	8.10	122.48	9:27 AM
TH-66A	130.66	8.50	122.16	9:28 AM
TH-67	129.51	4.60	124.91	9:24 AM
TH-68	140.01	13.69	126.32	11:00 AM
TH-69A	144.97	25.52	119.45	9:42 AM
TH-70A	146.63	26.60	120.03	9:46 AM
TH-71A	146.95	25.52	121.43	9:54 AM
TH-72	130.96	103.31	27.65	11:56 AM
TH-73	131.07	31.40	99.67	11:57 AM
SW-3A	3.0'=125.53'	0.52	123.05	8:51 AM
SW-3B2B	3.0'=97.97'	1.65	96.62	11:47 AM
SW-3C2	6.0'=92.33'	1.50	87.83	11:42 AM
Mine Cut #1	4.0'=122.14'	2.16	120.30	10:58 AM
Mine Cut #2	6.0'=123.47'	2.38	119.85	11:12 AM
Mine Cut #3	4.0'=112.27'	2.08	110.35	11:24 AM
Mine Cut #4	5.0'=97.54'	1.52	94.06	11:20 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 – August 3, 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: 660-42754-1
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:
08/23/2011 01:33:13 PM

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

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Definitions/Glossary

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

TestAmerica Job ID: 660-42754-1

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Qualifiers

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 660-42754-1

Job ID: 660-42754-1

Laboratory: TestAmerica Tampa

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Narrative

Job Narrative
660-42754-1

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 method blank for batch 113721 and 11380 contained an estimated result at the MDL for chloride. Any associated sample with a positive result is flagged with V.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 113567 were outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 113606 were 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 113800 were 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 113847 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 113415 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: 660-42754-1

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Client Sample ID: TH-42 WACS# 823 — Lab Sample ID: 660-42754-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.23				SU	1		Field Sampling	Total/NA
Field Temperature	24.02				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Specific Conductance	493				umhos/cm	1		Field Sampling	Total/NA
Turbidity	18.3				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	520		200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	17	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.094		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	300		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Duplicate — Lab Sample ID: 660-42754-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	620		200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	17	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.10		0.020	0.010	mg/L	1		350.1	Total/NA

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

Client Sample ID: TH-19 WACS# 821 — Lab Sample ID: 660-42754-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.22				SU	1		Field Sampling	Total/NA
Field Temperature	23.55				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	391				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.6	V	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

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	250		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS# 822 — Lab Sample ID: 660-42754-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Temperature	23.64				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.34				mg/L	1		Field Sampling	Total/NA
Specific Conductance	361				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.3	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.40		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-42754-1

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Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-42754-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.60				SU	1		Field Sampling	Total/NA
Field Temperature	26.10				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.39				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2167				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.1				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	28		10	4.0	ug/L	1		6010B	Total Recovera
Iron	16000		200	50	ug/L	1		6010B	Total Recovera
Sodium	150		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	660	V	10	4.0	mg/L	20		300.0	Total/NA
Ammonia as N	1.6		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1700		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-42754-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.49				SU	1		Field Sampling	Total/NA
Field Temperature	23.43				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.17				mg/L	1		Field Sampling	Total/NA
Specific Conductance	244				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	230		200	50	ug/L	1		6010B	Total Recovera
Sodium	21		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	63	V	1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	1.5		0.020	0.010	mg/L	1		350.1	Total/NA

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

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-42754-7

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.56				SU	1		Field Sampling	Total/NA
Field Temperature	25.87				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	348				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA

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

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Blank, Equipment

Lab Sample ID: 660-42754-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	0.064		0.020	0.010	mg/L	1		350.1	Total/NA

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-42754-9

5

Client Sample ID: SUP 1 WACS# 27755 (Continued)

Lab Sample ID: 660-42754-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.49				SU	1		Field Sampling	Total/NA
Field Temperature	24.54				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.03				mg/L	1		Field Sampling	Total/NA
Specific Conductance	337				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.1				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.4		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	9.1	V	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.27		0.020	0.010	mg/L	1		350.1	Total/NA

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

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-42765-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.20				SU	1		Field Sampling	Total/NA
Field Temperature	27.28				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.97				mg/L	1		Field Sampling	Total/NA
Specific Conductance	206				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.5				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3100		200	50	ug/L	1		6010B	Total Recovera
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	43	J3	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.67	J3	0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-42765-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.02				SU	1		Field Sampling	Total/NA
Field Temperature	26.26				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.15				mg/L	1		Field Sampling	Total/NA
Specific Conductance	211				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.3				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	630		200	50	ug/L	1		6010B	Total Recovera
Sodium	13		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	47		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.76		0.020	0.010	mg/L	1		350.1	Total/NA

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

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-42765-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	23.18				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.33				mg/L	1		Field Sampling	Total/NA
Specific Conductance	564				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.4				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-72 WACS# 27753 (Continued)

Lab Sample ID: 660-42765-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	180	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	34		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	33		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.21		0.020	0.010	mg/L	1		350.1	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	360		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-42765-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.12				SU	1		Field Sampling	Total/NA
Field Temperature	25.44				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.89				mg/L	1		Field Sampling	Total/NA
Specific Conductance	262				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.9				NTU	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8200		200	50	ug/L	1		6010B	Total Recovera
Sodium	24		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	60		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

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample Results

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-42 WACS# 823
Date Collected: 08/04/11 10:44
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-1
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:13	1
Iron	520		200	50	ug/L		08/09/11 09:07	08/11/11 12:13	1
Sodium	16		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	V	0.50	0.20	mg/L			08/15/11 10:44	1
Ammonia as N	0.094		0.020	0.010	mg/L			08/08/11 14:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	5.0	mg/L			08/08/11 11:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.23				SU			08/04/11 10:44	1
Field Temperature	24.02				Degrees C			08/04/11 10:44	1
Oxygen, Dissolved	0.13				mg/L			08/04/11 10:44	1
Specific Conductance	493				umhos/cm			08/04/11 10:44	1
Turbidity	18.3				NTU			08/04/11 10:44	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: Duplicate
Date Collected: 08/04/11 00:00
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-2
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:26	1
Iron	620		200	50	ug/L		08/09/11 09:07	08/11/11 12:26	1
Sodium	16		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	V	0.50	0.20	mg/L			08/15/11 11:00	1
Ammonia as N	0.10		0.020	0.010	mg/L			08/08/11 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	5.0	mg/L			08/08/11 11:18	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-19 WACS# 821
Date Collected: 08/04/11 11:42
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-3
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:29	1
Iron	50	U	200	50	ug/L		08/09/11 09:07	08/11/11 12:29	1
Sodium	14		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6	V	0.50	0.20	mg/L			08/15/11 11:17	1
Ammonia as N	0.32		0.020	0.010	mg/L			08/15/11 14:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		5.0	5.0	mg/L			08/08/11 11:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.22				SU			08/04/11 11:42	1
Field Temperature	23.55				Degrees C			08/04/11 11:42	1
Oxygen, Dissolved	0.30				mg/L			08/04/11 11:42	1
Specific Conductance	391				umhos/cm			08/04/11 11:42	1
Turbidity	0.0				NTU			08/04/11 11:42	1

Client Sample Results

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-40 WACS# 822
Date Collected: 08/04/11 09:26
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-4
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:33	1
Iron	50	U	200	50	ug/L		08/09/11 09:07	08/11/11 12:33	1
Sodium	16		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3	V	0.50	0.20	mg/L			08/15/11 11:33	1
Ammonia as N	0.40		0.020	0.010	mg/L			08/15/11 14:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	5.0	mg/L			08/08/11 11:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.52				SU			08/04/11 09:26	1
Field Temperature	23.64				Degrees C			08/04/11 09:26	1
Oxygen, Dissolved	0.34				mg/L			08/04/11 09:26	1
Specific Conductance	361				umhos/cm			08/04/11 09:26	1
Turbidity	0.0				NTU			08/04/11 09:26	1

Client Sample Results

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-58 WACS# 1571
Date Collected: 08/04/11 11:13
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-5
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		10	4.0	ug/L		08/09/11 09:07	08/11/11 12:43	1
Iron	16000		200	50	ug/L		08/09/11 09:07	08/11/11 12:43	1
Sodium	150		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660	V	10	4.0	mg/L			08/17/11 01:15	20
Ammonia as N	1.6		0.020	0.010	mg/L			08/15/11 14:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		5.0	5.0	mg/L			08/08/11 11:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.60				SU			08/04/11 11:13	1
Field Temperature	26.10				Degrees C			08/04/11 11:13	1
Oxygen, Dissolved	0.39				mg/L			08/04/11 11:13	1
Specific Conductance	2167				umhos/cm			08/04/11 11:13	1
Turbidity	2.1				NTU			08/04/11 11:13	1

Client Sample Results

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-30 WACS# 1065
Date Collected: 08/04/11 10:01
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-6
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:46	1
Iron	230		200	50	ug/L		08/09/11 09:07	08/11/11 12:46	1
Sodium	21		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63	V	1.0	0.40	mg/L			08/16/11 12:03	2
Ammonia as N	1.6		0.020	0.010	mg/L			08/15/11 14:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	5.0	mg/L			08/08/11 11:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.49				SU			08/04/11 10:01	1
Field Temperature	23.43				Degrees C			08/04/11 10:01	1
Oxygen, Dissolved	0.17				mg/L			08/04/11 10:01	1
Specific Conductance	244				umhos/cm			08/04/11 10:01	1
Turbidity	3.3				NTU			08/04/11 10:01	1

Client Sample Results

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: SUP 2 WACS# 27756
Date Collected: 08/04/11 12:16
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-7
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:49	1
Iron	50	U	200	50	ug/L		08/09/11 09:07	08/11/11 12:49	1
Sodium	11		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11	V	0.50	0.20	mg/L			08/15/11 12:23	1
Ammonia as N	0.20		0.020	0.010	mg/L			08/15/11 14:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		5.0	5.0	mg/L			08/11/11 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.56				SU			08/04/11 12:16	1
Field Temperature	25.87				Degrees C			08/04/11 12:16	1
Oxygen, Dissolved	0.10				mg/L			08/04/11 12:16	1
Specific Conductance	348				umhos/cm			08/04/11 12:16	1
Turbidity	0.0				NTU			08/04/11 12:16	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: Blank, Equipment
Date Collected: 08/04/11 09:12
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-8
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:53	1
Iron	50	U	200	50	ug/L		08/09/11 09:07	08/11/11 12:53	1
Sodium	0.31	U	0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			08/17/11 10:53	1
Ammonia as N	0.064		0.020	0.010	mg/L			08/15/11 14:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/11/11 11:54	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: SUP 1 WACS# 27755
Date Collected: 08/04/11 12:41
Date Received: 08/04/11 12:20

Lab Sample ID: 660-42754-9
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 12:56	1
Iron	50	U	200	50	ug/L		08/09/11 09:07	08/11/11 12:56	1
Sodium	8.4		0.50	0.31	mg/L		08/09/11 09:07	08/11/11 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1	V	0.50	0.20	mg/L			08/15/11 12:56	1
Ammonia as N	0.27		0.020	0.010	mg/L			08/15/11 15:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		5.0	5.0	mg/L			08/11/11 11:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.49				SU			08/04/11 12:41	1
Field Temperature	24.54				Degrees C			08/04/11 12:41	1
Oxygen, Dissolved	0.03				mg/L			08/04/11 12:41	1
Specific Conductance	337				umhos/cm			08/04/11 12:41	1
Turbidity	0.1				NTU			08/04/11 12:41	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-28A WACS# 19862
Date Collected: 08/05/11 10:20
Date Received: 08/05/11 13:30

Lab Sample ID: 660-42765-1
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/08/11 12:48	08/09/11 09:04	1
Iron	3100		200	50	ug/L		08/08/11 12:48	08/09/11 09:04	1
Sodium	16		0.50	0.31	mg/L		08/08/11 12:48	08/09/11 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43	J3	0.50	0.20	mg/L			08/10/11 11:19	1
Ammonia as N	0.67	J3	0.020	0.010	mg/L			08/08/11 14:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	5.0	mg/L			08/11/11 11:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.20				SU			08/05/11 10:20	1
Field Temperature	27.28				Degrees C			08/05/11 10:20	1
Oxygen, Dissolved	0.97				mg/L			08/05/11 10:20	1
Specific Conductance	206				umhos/cm			08/05/11 10:20	1
Turbidity	11.5				NTU			08/05/11 10:20	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-57 WACS# 1570
Date Collected: 08/05/11 10:41
Date Received: 08/05/11 13:30

Lab Sample ID: 660-42765-2
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/08/11 12:48	08/09/11 09:08	1
Iron	630		200	50	ug/L		08/08/11 12:48	08/09/11 09:08	1
Sodium	13		0.50	0.31	mg/L		08/08/11 12:48	08/09/11 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		0.50	0.20	mg/L			08/10/11 11:35	1
Ammonia as N	0.76		0.020	0.010	mg/L			08/08/11 14:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		5.0	5.0	mg/L			08/11/11 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.02				SU			08/05/11 10:41	1
Field Temperature	26.26				Degrees C			08/05/11 10:41	1
Oxygen, Dissolved	0.15				mg/L			08/05/11 10:41	1
Specific Conductance	211				umhos/cm			08/05/11 10:41	1
Turbidity	0.3				NTU			08/05/11 10:41	1

Client Sample Results

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-72 WACS# 27753
Date Collected: 08/05/11 10:00
Date Received: 08/05/11 13:30

Lab Sample ID: 660-42765-3
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/08/11 12:48	08/09/11 09:11	1
Iron	180	I	200	50	ug/L		08/08/11 12:48	08/09/11 09:11	1
Sodium	34		0.50	0.31	mg/L		08/08/11 12:48	08/09/11 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		0.50	0.20	mg/L			08/10/11 11:52	1
Ammonia as N	0.21		0.020	0.010	mg/L			08/08/11 14:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	360		5.0	5.0	mg/L			08/11/11 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.29				SU			08/05/11 10:00	1
Field Temperature	23.18				Degrees C			08/05/11 10:00	1
Oxygen, Dissolved	0.33				mg/L			08/05/11 10:00	1
Specific Conductance	564				umhos/cm			08/05/11 10:00	1
Turbidity	0.4				NTU			08/05/11 10:00	1

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-73 WACS# 27754
Date Collected: 08/05/11 08:43
Date Received: 08/05/11 13:30

Lab Sample ID: 660-42765-4
Matrix: Water

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/08/11 12:48	08/09/11 09:15	1
Iron	8200		200	50	ug/L		08/08/11 12:48	08/09/11 09:15	1
Sodium	24		0.50	0.31	mg/L		08/08/11 12:48	08/09/11 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		1.0	0.40	mg/L			08/11/11 13:35	2
Ammonia as N	1.2		0.020	0.010	mg/L			08/08/11 14:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	5.0	mg/L			08/11/11 11:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.12				SU			08/05/11 08:43	1
Field Temperature	25.44				Degrees C			08/05/11 08:43	1
Oxygen, Dissolved	0.89				mg/L			08/05/11 08:43	1
Specific Conductance	262				umhos/cm			08/05/11 08:43	1
Turbidity	19.9				NTU			08/05/11 08:43	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-113400/1-A
Matrix: Water
Analysis Batch: 113451

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 113400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/08/11 12:48	08/09/11 08:08	1
Iron	50	U	200	50	ug/L		08/08/11 12:48	08/09/11 08:08	1
Sodium	0.31	U	0.50	0.31	mg/L		08/08/11 12:48	08/09/11 08:08	1

Lab Sample ID: LCS 660-113400/2-A
Matrix: Water
Analysis Batch: 113451

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 113400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1030		ug/L		103	75 - 125
Iron	1000	1030		ug/L		103	75 - 125
Sodium	10.0	9.89		mg/L		99	75 - 125

Lab Sample ID: 660-42782-A-1-B MS
Matrix: Water
Analysis Batch: 113451

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 113400

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	200		1000	1220		ug/L		101	75 - 125
Sodium	1.2		10.0	11.1		mg/L		99	75 - 125

Lab Sample ID: 660-42782-A-1-C MSD
Matrix: Water
Analysis Batch: 113451

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 113400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1040		ug/L		104	75 - 125	0	20
Iron	200		1000	1220		ug/L		101	75 - 125	0	20
Sodium	1.2		10.0	11.1		mg/L		99	75 - 125	0	20

Lab Sample ID: MB 660-113442/1-A
Matrix: Water
Analysis Batch: 113585

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 113442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		08/09/11 09:07	08/11/11 13:51	1
Iron	50	U	200	50	ug/L		08/09/11 09:07	08/11/11 13:51	1
Sodium	0.31	U	0.50	0.31	mg/L		08/09/11 09:07	08/11/11 13:51	1

Lab Sample ID: LCS 660-113442/2-A
Matrix: Water
Analysis Batch: 113585

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 113442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	1000	1060		ug/L		106	75 - 125
Iron	1000	1030		ug/L		103	75 - 125
Sodium	10.0	9.95		mg/L		100	75 - 125

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

Lab Sample ID: 660-42754-1 MS
Matrix: Water
Analysis Batch: 113585

Client Sample ID: TH-42 WACS# 823
Prep Type: Total Recoverable
Prep Batch: 113442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	4.0	U	1000	1070		ug/L		107	75 - 125
Iron	520		1000	1690		ug/L		117	75 - 125
Sodium	16		10.0	26.3		mg/L		105	75 - 125

Lab Sample ID: 660-42754-1 MSD
Matrix: Water
Analysis Batch: 113585

Client Sample ID: TH-42 WACS# 823
Prep Type: Total Recoverable
Prep Batch: 113442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1060		ug/L		106	75 - 125	1	20
Iron	520		1000	1680		ug/L		116	75 - 125	1	20
Sodium	16		10.0	25.8		mg/L		100	75 - 125	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-113567/3
Matrix: Water
Analysis Batch: 113567

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			08/10/11 10:13	1

Lab Sample ID: LCS 660-113567/4
Matrix: Water
Analysis Batch: 113567

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	9.64		mg/L		96	90 - 110

Lab Sample ID: 660-42765-1 MS
Matrix: Water
Analysis Batch: 113567

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	43	J3	10.0	50.5	L J3	mg/L		78	90 - 110

Lab Sample ID: 660-42765-1 MSD
Matrix: Water
Analysis Batch: 113567

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	43	J3	10.0	50.8	L J3	mg/L		82	90 - 110	1	30

Lab Sample ID: MB 660-113606/3
Matrix: Water
Analysis Batch: 113606

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			08/11/11 11:48	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-113606/4
Matrix: Water
Analysis Batch: 113606

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	9.62		mg/L		96	90 - 110

Lab Sample ID: 660-42834-A-1 MS ^10
Matrix: Water
Analysis Batch: 113606

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	210	J3	100	324	J3	mg/L		111	90 - 110

Lab Sample ID: 660-42834-A-1 MSD ^10
Matrix: Water
Analysis Batch: 113606

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	210	J3	100	301	J3	mg/L		88	90 - 110	7	30

Lab Sample ID: MB 660-113721/3
Matrix: Water
Analysis Batch: 113721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.298	I	0.50	0.20	mg/L			08/15/11 10:11	1

Lab Sample ID: LCS 660-113721/4
Matrix: Water
Analysis Batch: 113721

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	9.60		mg/L		96	90 - 110

Lab Sample ID: 660-42754-1 MS
Matrix: Water
Analysis Batch: 113721

Client Sample ID: TH-42 WACS# 823
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	17	V	10.0	27.0		mg/L		102	90 - 110

Lab Sample ID: 660-42754-1 MSD
Matrix: Water
Analysis Batch: 113721

Client Sample ID: TH-42 WACS# 823
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	17	V	10.0	27.0		mg/L		102	90 - 110	0	30

Lab Sample ID: MB 660-113800/3
Matrix: Water
Analysis Batch: 113800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.300	I	0.50	0.20	mg/L			08/16/11 10:13	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-113800/4
Matrix: Water
Analysis Batch: 113800

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	9.93		mg/L		99	90 - 110

Lab Sample ID: 660-42846-B-10 MS
Matrix: Water
Analysis Batch: 113800

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	8.7	V	10.0	18.4		mg/L		97	90 - 110

Lab Sample ID: 660-42846-B-10 MSD
Matrix: Water
Analysis Batch: 113800

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	8.7	V	10.0	17.8		mg/L		91	90 - 110	3	30

Lab Sample ID: 660-42923-G-2 MS
Matrix: Water
Analysis Batch: 113800

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	39	V J3	10.0	47.1	J3	mg/L		82	90 - 110

Lab Sample ID: 660-42923-G-2 MSD
Matrix: Water
Analysis Batch: 113800

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	39	V J3	10.0	47.5	J3	mg/L		86	90 - 110	1	30

Lab Sample ID: MB 660-113847/6
Matrix: Water
Analysis Batch: 113847

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			08/17/11 10:37	1

Lab Sample ID: LCS 660-113847/5
Matrix: Water
Analysis Batch: 113847

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

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

Lab Sample ID: 660-42846-B-4 MS ^10
Matrix: Water
Analysis Batch: 113847

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	130	J3	100	265	J3	mg/L		130	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-42846-B-4 MSD ^10
Matrix: Water
Analysis Batch: 113847

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	130	J3	100	263	J3	mg/L		128	90 - 110	1	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-113415/15
Matrix: Water
Analysis Batch: 113415

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			08/08/11 13:53	1

Lab Sample ID: LCS 660-113415/16
Matrix: Water
Analysis Batch: 113415

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	0.513		mg/L		103	90 - 110

Lab Sample ID: 660-42765-1 MS
Matrix: Water
Analysis Batch: 113415

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.67	J3	1.00	1.46	J3	mg/L		79	90 - 110

Lab Sample ID: 660-42765-1 MSD
Matrix: Water
Analysis Batch: 113415

Client Sample ID: TH-28A WACS# 19862
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	0.67	J3	1.00	1.48	J3	mg/L		81	90 - 110	1	30

Lab Sample ID: MB 660-113709/11
Matrix: Water
Analysis Batch: 113709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.010	U	0.020	0.010	mg/L			08/15/11 14:48	1

Lab Sample ID: LCS 660-113709/12
Matrix: Water
Analysis Batch: 113709

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	0.512		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-42754-3 MS
Matrix: Water
Analysis Batch: 113709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.32		1.00	1.40		mg/L		108	90 - 110

Lab Sample ID: 660-42754-3 MSD
Matrix: Water
Analysis Batch: 113709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ammonia as N	0.32		1.00	1.41		mg/L		109	90 - 110	1	30

Lab Sample ID: 660-42754-9 MS
Matrix: Water
Analysis Batch: 113709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia as N	0.27		1.00	1.24		mg/L		97	90 - 110

Lab Sample ID: 660-42754-9 MSD
Matrix: Water
Analysis Batch: 113709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ammonia as N	0.27		1.00	1.25		mg/L		98	90 - 110	1	30

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

Lab Sample ID: MB 660-113390/1
Matrix: Water
Analysis Batch: 113390

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/08/11 11:07	1

Lab Sample ID: LCS 660-113390/2
Matrix: Water
Analysis Batch: 113390

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	9820		mg/L		98	80 - 120

Lab Sample ID: 660-42754-6 DU
Matrix: Water
Analysis Batch: 113390

Client Sample ID: TH-30 WACS# 1065
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		172		mg/L		7	20

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

Lab Sample ID: MB 660-113586/1
Matrix: Water
Analysis Batch: 113586

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/11/11 11:52	1

Lab Sample ID: LCS 660-113586/2
Matrix: Water
Analysis Batch: 113586

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

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

Lab Sample ID: 660-42754-7 DU
Matrix: Water
Analysis Batch: 113586

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		240		mg/L		0.8	20

Metals

Prep Batch: 113400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113400/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 660-113400/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
660-42782-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-42782-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-42765-1	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
660-42765-2	TH-57 WACS# 1570	Total Recoverable	Water	3005A	
660-42765-3	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-42765-4	TH-73 WACS# 27754	Total Recoverable	Water	3005A	

Prep Batch: 113442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113442/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 660-113442/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
660-42754-1	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-42754-1 MS	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-42754-1 MSD	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-42754-2	Duplicate	Total Recoverable	Water	3005A	
660-42754-3	TH-19 WACS# 821	Total Recoverable	Water	3005A	
660-42754-4	TH-40 WACS# 822	Total Recoverable	Water	3005A	
660-42754-5	TH-58 WACS# 1571	Total Recoverable	Water	3005A	
660-42754-6	TH-30 WACS# 1065	Total Recoverable	Water	3005A	
660-42754-7	SUP 2 WACS# 27756	Total Recoverable	Water	3005A	
660-42754-8	Blank, Equipment	Total Recoverable	Water	3005A	
660-42754-9	SUP 1 WACS# 27755	Total Recoverable	Water	3005A	

Analysis Batch: 113451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113400/1-A	Method Blank	Total Recoverable	Water	6010B	113400
LCS 660-113400/2-A	Lab Control Sample	Total Recoverable	Water	6010B	113400
660-42782-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	113400
660-42782-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	113400
660-42765-1	TH-28A WACS# 19862	Total Recoverable	Water	6010B	113400
660-42765-2	TH-57 WACS# 1570	Total Recoverable	Water	6010B	113400
660-42765-3	TH-72 WACS# 27753	Total Recoverable	Water	6010B	113400
660-42765-4	TH-73 WACS# 27754	Total Recoverable	Water	6010B	113400

Analysis Batch: 113585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-113442/2-A	Lab Control Sample	Total Recoverable	Water	6010B	113442
660-42754-1	TH-42 WACS# 823	Total Recoverable	Water	6010B	113442
660-42754-1 MS	TH-42 WACS# 823	Total Recoverable	Water	6010B	113442
660-42754-1 MSD	TH-42 WACS# 823	Total Recoverable	Water	6010B	113442
660-42754-2	Duplicate	Total Recoverable	Water	6010B	113442
660-42754-3	TH-19 WACS# 821	Total Recoverable	Water	6010B	113442
660-42754-4	TH-40 WACS# 822	Total Recoverable	Water	6010B	113442
660-42754-5	TH-58 WACS# 1571	Total Recoverable	Water	6010B	113442
660-42754-6	TH-30 WACS# 1065	Total Recoverable	Water	6010B	113442
660-42754-7	SUP 2 WACS# 27756	Total Recoverable	Water	6010B	113442
660-42754-8	Blank, Equipment	Total Recoverable	Water	6010B	113442
660-42754-9	SUP 1 WACS# 27755	Total Recoverable	Water	6010B	113442
MB 660-113442/1-A	Method Blank	Total Recoverable	Water	6010B	113442

General Chemistry

Analysis Batch: 113390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113390/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 660-113390/2	Lab Control Sample	Total/NA	Water	SM 2540C	
660-42754-1	TH-42 WACS# 823	Total/NA	Water	SM 2540C	
660-42754-2	Duplicate	Total/NA	Water	SM 2540C	
660-42754-3	TH-19 WACS# 821	Total/NA	Water	SM 2540C	
660-42754-4	TH-40 WACS# 822	Total/NA	Water	SM 2540C	
660-42754-5	TH-58 WACS# 1571	Total/NA	Water	SM 2540C	
660-42754-6	TH-30 WACS# 1065	Total/NA	Water	SM 2540C	
660-42754-6 DU	TH-30 WACS# 1065	Total/NA	Water	SM 2540C	

Analysis Batch: 113415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113415/15	Method Blank	Total/NA	Water	350.1	
LCS 660-113415/16	Lab Control Sample	Total/NA	Water	350.1	
660-42765-1	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-42765-1 MS	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-42765-1 MSD	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-42765-2	TH-57 WACS# 1570	Total/NA	Water	350.1	
660-42765-3	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-42765-4	TH-73 WACS# 27754	Total/NA	Water	350.1	
660-42754-1	TH-42 WACS# 823	Total/NA	Water	350.1	
660-42754-2	Duplicate	Total/NA	Water	350.1	

Analysis Batch: 113567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113567/3	Method Blank	Total/NA	Water	300.0	
LCS 660-113567/4	Lab Control Sample	Total/NA	Water	300.0	
660-42765-1	TH-28A WACS# 19862	Total/NA	Water	300.0	
660-42765-2	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-42765-3	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-42765-1 MS	TH-28A WACS# 19862	Total/NA	Water	300.0	
660-42765-1 MSD	TH-28A WACS# 19862	Total/NA	Water	300.0	

Analysis Batch: 113586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113586/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 660-113586/2	Lab Control Sample	Total/NA	Water	SM 2540C	
660-42754-7	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	
660-42754-7 DU	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	
660-42754-8	Blank, Equipment	Total/NA	Water	SM 2540C	
660-42754-9	SUP 1 WACS# 27755	Total/NA	Water	SM 2540C	
660-42765-1	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-42765-2	TH-57 WACS# 1570	Total/NA	Water	SM 2540C	
660-42765-3	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	
660-42765-4	TH-73 WACS# 27754	Total/NA	Water	SM 2540C	

Analysis Batch: 113606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113606/3	Method Blank	Total/NA	Water	300.0	
LCS 660-113606/4	Lab Control Sample	Total/NA	Water	300.0	
660-42765-4	TH-73 WACS# 27754	Total/NA	Water	300.0	
660-42834-A-1 MS ^10	Matrix Spike	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 113606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-42834-A-1 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 113709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113709/11	Method Blank	Total/NA	Water	350.1	
LCS 660-113709/12	Lab Control Sample	Total/NA	Water	350.1	
660-42754-3	TH-19 WACS# 821	Total/NA	Water	350.1	
660-42754-3 MS	TH-19 WACS# 821	Total/NA	Water	350.1	
660-42754-3 MSD	TH-19 WACS# 821	Total/NA	Water	350.1	
660-42754-4	TH-40 WACS# 822	Total/NA	Water	350.1	
660-42754-5	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-42754-6	TH-30 WACS# 1065	Total/NA	Water	350.1	
660-42754-7	SUP 2 WACS# 27756	Total/NA	Water	350.1	
660-42754-8	Blank, Equipment	Total/NA	Water	350.1	
660-42754-9	SUP 1 WACS# 27755	Total/NA	Water	350.1	
660-42754-9 MS	SUP 1 WACS# 27755	Total/NA	Water	350.1	
660-42754-9 MSD	SUP 1 WACS# 27755	Total/NA	Water	350.1	

Analysis Batch: 113721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113721/3	Method Blank	Total/NA	Water	300.0	
LCS 660-113721/4	Lab Control Sample	Total/NA	Water	300.0	
660-42754-1	TH-42 WACS# 823	Total/NA	Water	300.0	
660-42754-2	Duplicate	Total/NA	Water	300.0	
660-42754-3	TH-19 WACS# 821	Total/NA	Water	300.0	
660-42754-4	TH-40 WACS# 822	Total/NA	Water	300.0	
660-42754-7	SUP 2 WACS# 27756	Total/NA	Water	300.0	
660-42754-9	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-42754-1 MS	TH-42 WACS# 823	Total/NA	Water	300.0	
660-42754-1 MSD	TH-42 WACS# 823	Total/NA	Water	300.0	

Analysis Batch: 113800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-113800/3	Method Blank	Total/NA	Water	300.0	
LCS 660-113800/4	Lab Control Sample	Total/NA	Water	300.0	
660-42754-6	TH-30 WACS# 1065	Total/NA	Water	300.0	
660-42923-G-2 MS	Matrix Spike	Total/NA	Water	300.0	
660-42923-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-42846-B-10 MS	Matrix Spike	Total/NA	Water	300.0	
660-42846-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-42754-5	TH-58 WACS# 1571	Total/NA	Water	300.0	

Analysis Batch: 113847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-113847/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-113847/6	Method Blank	Total/NA	Water	300.0	
660-42754-8	Blank, Equipment	Total/NA	Water	300.0	
660-42846-B-4 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-42846-B-4 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	

QC Association Summary

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

TestAmerica Job ID: 660-42754-1

Field Service / Mobile Lab

Analysis Batch: 113561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-42754-1	TH-42 WACS# 823	Total/NA	Water	Field Sampling	
660-42754-3	TH-19 WACS# 821	Total/NA	Water	Field Sampling	
660-42754-4	TH-40 WACS# 822	Total/NA	Water	Field Sampling	
660-42754-5	TH-58 WACS# 1571	Total/NA	Water	Field Sampling	
660-42754-6	TH-30 WACS# 1065	Total/NA	Water	Field Sampling	
660-42754-7	SUP 2 WACS# 27756	Total/NA	Water	Field Sampling	
660-42754-9	SUP 1 WACS# 27755	Total/NA	Water	Field Sampling	
660-42765-1	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	
660-42765-2	TH-57 WACS# 1570	Total/NA	Water	Field Sampling	
660-42765-3	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-42765-4	TH-73 WACS# 27754	Total/NA	Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-42754-1

Date Collected: 08/04/11 10:44
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:13	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113390	08/08/11 11:17	TO	TAL TAM
Total/NA	Analysis	350.1		1	113415	08/08/11 14:25	TO	TAL TAM
Total/NA	Analysis	300.0		1	113721	08/15/11 10:44	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 10:44		TAL TAM

Client Sample ID: Duplicate

Lab Sample ID: 660-42754-2

Date Collected: 08/04/11 00:00
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:26	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113390	08/08/11 11:18	TO	TAL TAM
Total/NA	Analysis	350.1		1	113415	08/08/11 14:26	TO	TAL TAM
Total/NA	Analysis	300.0		1	113721	08/15/11 11:00	TS	TAL TAM

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-42754-3

Date Collected: 08/04/11 11:42
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:29	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113390	08/08/11 11:19	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 14:50	TO	TAL TAM
Total/NA	Analysis	300.0		1	113721	08/15/11 11:17	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 11:42		TAL TAM

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-42754-4

Date Collected: 08/04/11 09:26
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:33	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113390	08/08/11 11:20	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 14:54	TO	TAL TAM
Total/NA	Analysis	300.0		1	113721	08/15/11 11:33	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 09:26		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-42754-5

Date Collected: 08/04/11 11:13
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:43	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113390	08/08/11 11:20	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 14:55	TO	TAL TAM
Total/NA	Analysis	300.0		20	113800	08/17/11 01:15	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 11:13		TAL TAM

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-42754-6

Date Collected: 08/04/11 10:01
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:46	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113390	08/08/11 11:21	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 14:56	TO	TAL TAM
Total/NA	Analysis	300.0		2	113800	08/16/11 12:03	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 10:01		TAL TAM

Client Sample ID: SUP 2 WACS# 27756

Lab Sample ID: 660-42754-7

Date Collected: 08/04/11 12:16
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:49	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:53	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 14:57	TO	TAL TAM
Total/NA	Analysis	300.0		1	113721	08/15/11 12:23	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 12:16		TAL TAM

Client Sample ID: Blank, Equipment

Lab Sample ID: 660-42754-8

Date Collected: 08/04/11 09:12
Matrix: Water
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:53	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:54	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 14:59	TO	TAL TAM
Total/NA	Analysis	300.0		1	113847	08/17/11 10:53	TS	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: SUP 1 WACS# 27755

Lab Sample ID: 660-42754-9
Matrix: Water
Date Collected: 08/04/11 12:41
Date Received: 08/04/11 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113442	08/09/11 09:07	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113585	08/11/11 12:56	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:55	TO	TAL TAM
Total/NA	Analysis	350.1		1	113709	08/15/11 15:07	TO	TAL TAM
Total/NA	Analysis	300.0		1	113721	08/15/11 12:56	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/04/11 12:41		TAL TAM

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Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-42765-1
Matrix: Water
Date Collected: 08/05/11 10:20
Date Received: 08/05/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113400	08/08/11 12:48	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113451	08/09/11 09:04	GF	TAL TAM
Total/NA	Analysis	350.1		1	113415	08/08/11 14:13	TO	TAL TAM
Total/NA	Analysis	300.0		1	113567	08/10/11 11:19	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:55	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/05/11 10:20		TAL TAM

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-42765-2
Matrix: Water
Date Collected: 08/05/11 10:41
Date Received: 08/05/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113400	08/08/11 12:48	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113451	08/09/11 09:08	GF	TAL TAM
Total/NA	Analysis	350.1		1	113415	08/08/11 14:16	TO	TAL TAM
Total/NA	Analysis	300.0		1	113567	08/10/11 11:35	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:56	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/05/11 10:41		TAL TAM

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-42765-3
Matrix: Water
Date Collected: 08/05/11 10:00
Date Received: 08/05/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113400	08/08/11 12:48	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113451	08/09/11 09:11	GF	TAL TAM
Total/NA	Analysis	350.1		1	113415	08/08/11 14:18	TO	TAL TAM
Total/NA	Analysis	300.0		1	113567	08/10/11 11:52	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:56	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/05/11 10:00		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-42754-1

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-42765-4

Date Collected: 08/05/11 08:43
Date Received: 08/05/11 13:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			113400	08/08/11 12:48	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	113451	08/09/11 09:15	GF	TAL TAM
Total/NA	Analysis	350.1		1	113415	08/08/11 14:19	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	113586	08/11/11 11:57	TO	TAL TAM
Total/NA	Analysis	300.0		2	113606	08/11/11 13:35	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	113561	08/05/11 08:43		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: 660-42754-1

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: 660-42754-1

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: 660-42754-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-42754-1	TH-42 WACS# 823	Water	08/04/11 10:44	08/04/11 12:20
660-42754-2	Duplicate	Water	08/04/11 00:00	08/04/11 12:20
660-42754-3	TH-19 WACS# 821	Water	08/04/11 11:42	08/04/11 12:20
660-42754-4	TH-40 WACS# 822	Water	08/04/11 09:26	08/04/11 12:20
660-42754-5	TH-58 WACS# 1571	Water	08/04/11 11:13	08/04/11 12:20
660-42754-6	TH-30 WACS# 1065	Water	08/04/11 10:01	08/04/11 12:20
660-42754-7	SUP 2 WACS# 27756	Water	08/04/11 12:16	08/04/11 12:20
660-42754-8	Blank, Equipment	Water	08/04/11 09:12	08/04/11 12:20
660-42754-9	SUP 1 WACS# 27755	Water	08/04/11 12:41	08/04/11 12:20
660-42765-1	TH-28A WACS# 19862	Water	08/05/11 10:20	08/05/11 13:30
660-42765-2	TH-57 WACS# 1570	Water	08/05/11 10:41	08/05/11 13:30
660-42765-3	TH-72 WACS# 27753	Water	08/05/11 10:00	08/05/11 13:30
660-42765-4	TH-73 WACS# 27754	Water	08/05/11 08:43	08/05/11 13:30

660-42754

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 164 Ft.

DEPTH TO WATER: 78.12 Ft.

LENGTH OF WATER COL: 85.88 Ft.

VOLUME TO PURGE: 13.74 Gal.

	DATE	TIME
PURGE STARTED:	8-4-11	10:17
PURGE RATE:	0.60 GPM.	
PURGE ENDED:	8-4-11	10:44
ACT. VOL. PURGED:	16.2 GAL.	

Drow Down: 98.82

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:40	24.04	493	7.22	0.17	19.4
AB JC	10:42	24.03	493	7.23	0.13	17.6
AB JC	10:44	24.02	493	7.23	0.13	15.3

13

SAMPLE CONTAINERS

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

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

COLLECTED

DATE | TIME

8-4-11 | 10:44

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: [signature]	REP. OF SOLID WASTE DEPT.	8-4-11	12:20
ACCEPTED BY: [signature]	REP. OF CONTRACT LAB.	8-4-11	12:20

COMMENTS:

WO # 60 47

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

MONITORING WELLS DUPLICATE SAMPLE

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

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

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

COLLECTED
DATE | TIME
8-4-11 | —

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME

RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 8-4-11 | 12:20

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENT`S:

U20 #0047

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

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

WELL DIAMETER: **2.0** INCH:
TOTAL DEPTH OF WELL: 153.60 Ft.
DEPTH TO WATER: 99.16 Ft.
LENGTH OF WATER COL: 54.44 Ft.
VOLUME TO PURGE: 8.71 Gal.

	DATE	TIME
PURGE STARTED:	8-4-11	11:31
PURGE RATE:	1 GPM	GPM.
	DATE	TIME
PURGE ENDED:	8-4-11	11:42
ACT. VOL. PURGED:	11	GAL.

Draw Down: 99.82

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
AB JC	11:38	23.59	391	7.17	0.38	0.2	=
AB JC	11:40	23.55	391	7.18	0.36	0.4	
AB JC	11:42	23.55	391	7.22	0.30	0.0	

SAMPLE CONTAINERS

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

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

COLLECTED
DATE | TIME
8-4-11 | 11:42

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: [signature] REP. OF SOLID WASTE DEPT. 8-4-11 | 12:20
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENT`S:
WO# 00447

13

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☑ A.Balloon ☑ S.Clyatt ☐

WELL DIAMETER: 2.0 INCH:
TOTAL DEPTH OF WELL: 165.90 Ft.
DEPTH TO WATER: 95.85 Ft.
LENGTH OF WATER COL: 70.05 Ft.
VOLUME TO PURGE: 11.20 Gal.

DATE | TIME
PURGE STARTED: 8-4-11 | 9:11
PURGE RATE: 1.00 GPM.
DATE | TIME
PURGE ENDED: 8-4-11 | 9:29
ACT. VOL. PURGED: 15.00 GAL.
Diew Down 95.85

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:22	23.66	378	7.45	0.58	0.4
AB JC	9:24	23.65	367	7.49	0.46	0.3
AB JC	9:26	23.64	361	7.52	0.34	0.0

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
8-4-11 | 9:26

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 8-4-11 | 12:20
ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENT`S:
WO# 0047 5.6 c CU07

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 32.92 Ft.

DEPTH TO WATER: 27.61 Ft.

LENGTH OF WATER COL: 5.31 Ft.

VOLUME TO PURGE: 0.85 Gal.

	DATE	TIME
PURGE STARTED:	8-4-11	10:04
PURGE RATE:	0.20 GPM.	
	DATE	TIME
PURGE ENDED:	8-4-11	11:18
ACT. VOL. PURGED:	3.4 GAL.	

Draw Down: 28.24

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:09	24.18	2141	5.65	0.39	5.6
AB JC	11:11	24.12	2166	5.62	0.37	2.7
AB JC	11:13	24.10	2167	5.60	0.39	2.1

13

SAMPLE CONTAINERS

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

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

COLLECTED
DATE | TIME
8-4-11 | 11:18

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: _____ REP. OF SOLID WASTE DEPT. | DATE | TIME
8-4-11 | 12:20

ACCEPTED BY: _____ REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENTS:

WO# 0047

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

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

LOCATION: ~~P-18S WACS# 27752~~ TH-30 WACS# 1065 SAMPLE MATRIX: WATER OTHER MATRIX: ____

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

WELL DIAMETER: 2.0 INCH: 46.19

			DATE	TIME
TOTAL DEPTH OF WELL:	~~42.50~~	Ft.	PURGE STARTED:	8.4.11	9:45
DEPTH TO WATER:	29.84	Ft.	PURGE RATE:	6.3	GPM.
LENGTH OF WATER COL:	22.33	Ft.		DATE	TIME
VOLUME TO PURGE:	3.57	Gal.	PURGE ENDED:	8.4.11	10:09
			ACT. VOL. PURGED:	4.80	GAL.

Draw Down: 24.31

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
ABJC	9:57	23.43	243	4.48	0.18	5.5
ABJC	9:59	23.43	244	4.48	0.18	4.2
ABJC	10:01	23.43	244	4.49	0.17	3.3

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
8.4.11	10:01

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

			DATE	TIME
RELINQUISHED BY:	J. Clyatt	REP. OF SOLID WASTE DEPT.	8.4.11	12:20
ACCEPTED BY:	Carl McNulty	REP. OF CONTRACT LAB.	8.4.11	12:20

COMMENT`S: H_2S odor
WO# 0047

13

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: | DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 8-4-11 TIME 11:57

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:12	25.95	353	7.57	0.12	0.2
AB JC	12:14	25.90	352	7.54	0.11	0.0
AB JC	12:16	25.87	346	7.56	0.10	0.0

SAMPLE CONTAINERS

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

13

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

COLLECTED
DATE | TIME
8-4-11 | 12:16

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: [signature] REP. OF SOLID WASTE DEPT. 8-4-11 | 12:20

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENT'S:

WO # 0047

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

MONITORING WELLS BLANK, EQUIPMENT

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: [signature] REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

FIELD PARAMETERS: N/A

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
8-4-11 | 9:12

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: DATE | TIME

RELINQUISHED BY: [signature] REP. OF SOLID WASTE DEPT. 8-4-11 | 12:20

ACCEPTED BY: [signature] REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENT`S:

WO # 0047

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

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. 7-29-11 | 1300

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

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

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

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 8-4-11 TIME 12:22

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:37	24.54	337	7.51	0.03	0.0
AB JC	12:39	24.54	337	7.49	0.03	0.2
AB JC	12:41	24.54	337	7.49	0.03	0.1

13

SAMPLE CONTAINERS

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

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

COLLECTED
DATE | TIME
8-4-11 | 12:41

ANALYSIS REQUESTED:

~~AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic~~

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

ABOVE LISTED SAMPLES: DATE | TIME
RELINQUISHED BY: J. Clark REP. OF SOLID WASTE DEPT. 8-4-11 | 12:20
ACCEPTED BY: _____ REP. OF CONTRACT LAB. 8-4-11 | 12:20

COMMENT`S: H_2S odor
WO # 0047

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-42754-1

Login Number: 42754
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	5.6 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	did not rec any dissolved metals
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: 660-42754-1

Login Number: 42765
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.2 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	