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August 23, 2012

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

RE: Southeast County Landfill
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 23

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of our continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. The monthly sampling event was conducted on July 5 - 6, 2012, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

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

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<u>pH</u>

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values in the surficial range from 3.94 to 5.72 pH units. The pH values within the surficial aquifer across the SCLF have historically been observed below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in the four (4) upper Floridan groundwater monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and consistent with historical data for the site.

Turbidity

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

Conductivity

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

Total Dissolved Solids (TDS)

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

Chloride

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

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Arsenic

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

Iron

Total iron concentrations in the seven (7) surficial aquifer wells were all observed above the SDWS of 0.3 mg/l. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are likely naturally occurring and/or the result of past strip mining activities. The concentrations of iron in the upper Floridan wells were below the SDWS, except in TH-72, which exhibited 0.39 mg/l. The iron in TH-72 represents a minor increase from the last months results.

Total Ammonia

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

Conclusions

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

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

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Recommendations

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

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

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

Respectfully submitted,

David S. Adams, P.G Environmental Manager

Public Utilities Department

xc: John Lyons, Director, Public Works Department

Patricia Berry, Public Utilities Department

Pamela Greene, Public Utilities Department Larry Ruiz, Public Utilities Department

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Brian Miller, DOH

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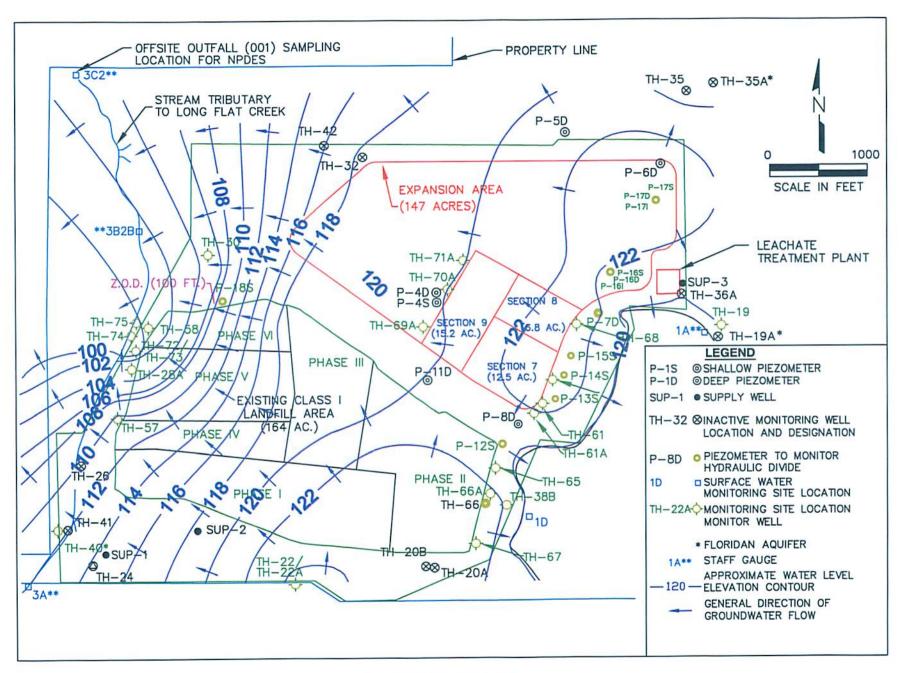
Hillsborough County Southeast Landfill Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells July 5, 2012

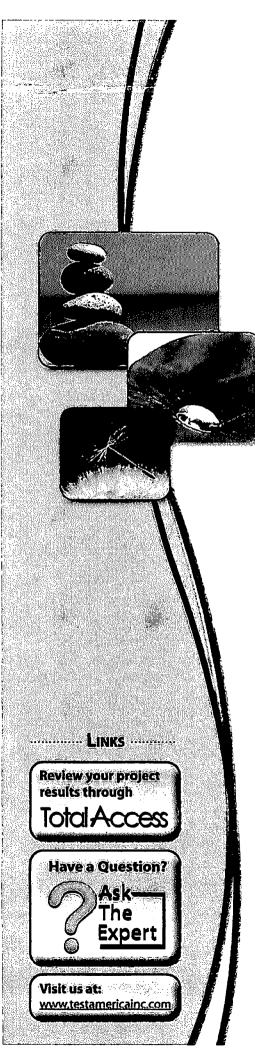
GENERAL (mg/l)			Surficia	I Aquifer	Wells				Up	per Florida	n Aquifer	Wells		(MCL) STANDARD
PARAMETERS	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	F.A.C. 62-550
conductivity (umhos/cm) (field)	344	462	274	527	232	495	344	304	389	454	900	263	275	NS
dissolved oxygen (mg/l) (field)	0.49	0.15	0.27	0.62	0.31	0.32	0.22	0.63	0.6	0.86	0.23	0.07	0.08	NS
pH (field)	5.25	3.94	5.11	5.72	4.77	4.99	5.35	6.69	7.39	6.50	6.54	7.27	7.35	(6.5 - 8.5)**
temperature (°C) (field)	26.77	23.50	26.28	26.35	24.63	23.09	23.52	23.49	23.78	24.06	23.52	24.61	24.69	NS
turbidity (NTU) (field)	3.53	1.83	1.12	2.34	9	5.33	6.48	0.42	0.18	7.16	0.4	0.02	0.07	NS
total dissolved solids (mg/l)	150	280	170	310	140	240	180	210	200	280	650	160	190	500**
chloride (mg/l)	75	130 J3	54	87	50	73	37	7.9	8.5	17	190	9.1	10	250**
ammonia nitrogen (mg/l as N)	3	2.4 <i>J</i> 3	1,5	1.4	1.7	2.1	2	0.54	0.68	0.53	2.9 <i>J</i> 3	0.57	0.4	2.8***
							i					1		(MCL) STANDARD
Metals: (mg/l)	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	F.A.C. 62-550
arsenic	0.004 u	0.004 u	ں 0.004	0.024	0.004 u	0.012	0.01	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.01*
iron	4	0.43	1.2	3.4	4	11	9.8	0.05 ม	0.05 u	0.22	0.39	0.05 u	0.05 u	0.3**
sodium	29	31	17	30	18	27	15	14	18	16	70	8.5	8.6	160*
Note: Ref. Groundwater Guidance Co	oncentrations	s, FDEP 201	2		1					1		i		
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BDL=BELOW DETECTION LIMIT	T				•					i		·		<u> </u>
NTU=NEPHELOMETRIC TURBIDITY	UNITS	•			• • • • • • •					• · · · · · · · · · · · · · · · · · · ·		•		
J3 = estimated value, value may not l	be accurate.	Spike reco	very of RPC	outside o	f criteria.			 		• • • • • • • • • • • • • • • • • • • •		•		
u = parameter was analyzed but not expenses.	detected.							*				•		•
*=DENOTES PRIMARY DRINKING V	WATER STA	NDARD								• • • • • •		•		•
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***=DENOTES FLORIDA GUIDANCE	CONCENT	RATION	1									•		
5.25	•			*-										•
ug/I=MICROGRAMS PER LITER		·			1				—			· · · — i	-	
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NS=NO STANDARD	1		1		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·						·

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR SOUTHEAST LANDFILL

July 3, 2012

Measuring	Manaurina	TOC	07/02/2040		
LD				18/ 1	Time
P-45D 140.78 22.87 117.91 10.14 AM P-55D 151.94 Dry Dry 8.48 AM P-5D 151.94 Dry Dry 8.48 AM P-5D 131.95 151.94 Dry Dry 8.48 AM P-5D 138.92 16.50 122.42 10.30 AM P-6D 138.34 17.86 120.48 10.51 AM P-7D 138.92 16.50 122.42 10.30 AM P-8D 138.34 17.86 120.48 10.51 AM P-11D 138.02 17.67 120.35 10.28 AM P-13S 140.21 16.50 123.71 10.45 AM P-13S 140.21 16.50 123.71 10.45 AM P-14S 138.65 14.70 123.86 10.41 AM P-14S 139.91 15.87 123.32 10.39 AM P-14S 133.39 16.08 127.30 9.33 AM P-14S 133.39 16.08 127.30 9.33 AM P-14S 133.39 16.08 127.30 9.33 AM P-14S 133.35 9.80 127.55 9.08 AM P-17D 137.22 14.24 122.98 9.05 AM P-17D 137.22 14.24 122.98 9.05 AM P-17D 137.22 14.24 122.98 9.05 AM P-19 133.36 7.44 125.92 8.53 AM P-20 132.38 11.07 121.31 9.53 AM P-20 132.38 11.07 121.31 9.53 AM P-21 122.79 133.36 7.44 125.92 8.53 AM P-22 128.95 7.09 121.26 9.45 AM P-23 143.13 22.74 120.39 9.38 AM TH-20A 131.86 8.55 123.31 11.32 AM TH-20A 131.86 8.55 123.31 11.32 AM TH-20A 131.86 8.55 123.31 11.32 AM TH-22A 129.27 4.91 124.36 11.34 AM TH-22A 129.27 4.91 124.36 11.34 AM TH-22A 129.27 4.91 124.36 11.34 AM TH-22A 129.27 1.48 8.20 11.48 8.31 AM TH-22A 129.27 1.49 10.03 9.35 AM TH-33A 13.06 8.55 123.31 11.32 AM TH-33B 13.10 8.8 9.87 120.81 11.33 AM TH-33B 13.10 8.8 9.87 120.81 11.33 AM TH-34B 131.10 28.05 103.05 7.42 AM TH-35 145.98 26.75 119.23 9.12 AM TH-36 145.98 13.10 10.07 121.74 11.27 AM TH-37 128.36 11.44 99 10.03 24.86 7.34 AM TH-36 11.64 39.64 15.55 123.31 11.32 AM TH-36 145.98 27.23 13.15 11.07 121.74 11.27 AM TH-36 146.83 26.75 119.23 9.12 AM TH-36 146.83 26.65 119.33 9.95 AM TH-36 146.83 26.65 119.34 9.95 AM TH-36 140.01 17.97 122.04 10.33 AM TH-36 140.01 17.97 1					- 1000
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TH-38A	TH-35	145.98	26.75	119.23	9:12 AM
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TH-73 131.07 31.51 99.56 7:48 AM TH-74 109.08 9.45 99.63 8:06 AM TH-75 106.92 7.36 99.56 8:02 AM SW-3A 3.0'=125.53' 0.64 123.17 7:26 AM SW-3B2B 3.0'=97.97' 1.72 96.69 8:16 AM SW-3C2 6.0'=92.33' 1.76 88.09 8:20 AM Mine Cut #1 4.0'=122.14' 1.76 119.90 10:36 AM Mine Cut #2 6.0'=123.47' 2.32 119.79 9:17 AM Mine Cut #3 4.0'=112.27' 2.24 110.51 8:37 AM Mine Cut #4 5.0'=97.54' 1.66 94.20 8:40 AM NGVD = National Geodetic Vertical Datum T.O.C. B.T.O.C. = Below Top of Casing = Floridan Well ND =No Data			27.12	119.83	10:07 AM
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Mine Cut #2 6.0'=123.47' 2.32 119.79 9:17 AM Mine Cut #3 4.0'=112.27' 2.24 110.51 8:37 AM Mine Cut #4 5.0'=97.54' 1.66 94.20 8:40 AM NGVD = National Geodetic Vertical Datum T.O.C. = Top of Casing B.T.O.C. = Below Top of Casing = Floridan Well ND =No Data					
Mine Cut #3					
Mine Cut #4 5.0'=97.54' 1.66 94.20 8:40 AM				•	
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T.O.C. = Top of Casing B.T.O.C. = Below Top of Casing = Floridan Well ND =No Data					
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ND =No Data	B.T.O.C.	= Below Top of Ca	esing		
W.L. = Water Level				<u> </u>	,
	W.L.	= Water Level			1





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: 660-4868

TestAmerica Job ID: 660-48683-1 Client Project/Site: Southeast Landfill

For:

Hillsborough County Public Utilities Dep Solid Waste Management Group Brandon Support Operations Complex 332 North Falkenburg Rd, 2nd Floor Tampa, Florida 33619

Attn: David Adams

Authorized for release by: 7/24/2012 12:08:47 PM

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

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

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

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



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Definitions/Glossary

Client Hillsborough County Public Utilities Dep

Toxicity Equivalent Quotient (Dioxin)

Project/Site: Southeast Landfill

TEQ

TestAmerica Job ID: 660-48683-1

Qualifiers	
Metals	
Qualifier	Qualifier Description
Ü	Indicates that the compound was analyzed for but not detected.
General Cher	nistry
Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
υ	Indicates that the compound was analyzed for but not detected.
1	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.
٥	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Job ID: 660-48683-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-48683-1

Comments

No additional comments.

Receipt

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

Metals

No analytical or quality issues were noted.

General Chemistry

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

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

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

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

No other analytical or quality issues were noted.

4

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Client Sample ID: TH-74	Lab Sample ID: 660-48683-1							
Analyte	Result	Qualifier	PQL	MDL	Unit	Dit Fac	D Method	Prep Type
Arsenic	12		10	4.0	ug/L	1	6010B	Total
								Recoverable
Iron	11000		200	50	ug/L	1	6010B	Total
								Recoverable
Sodium	27		0.50	0.31	mg/L	1	6010B	Total
011-11-								Recoverable
Chloride	73		2.5	1.0	mg/L	5	300.0	Total/NA
Ammonia as N	2.1		0.060	0.030	mg/L	1	350.1	Total/NA
Total Dissolved Solids	240		10	10	mg/L	1	SM 2540C	Total/NA
Field pH	4.99				SU	1	Field Sampling	Total/NA
Field Temperature	23.09				Degrees C	1	Field Sampling	Total/NA
Oxygen, Dissolved	0.32				mg/L	1	Field Sampling	Total/NA
Specific Conductance	495				umhos/cm	1	Field Sampling	Total/NA
Turbidity	5.33				NTU	1	Field Sampling	Total/NA

Client Sample ID: TH-75 Lab Sample ID: 660-486									
 Апаlyte	Result Qu	ialifier PQL	MDL	Unit	Dil Fac E) Method	Prep Type		
Arsenic	10	10	4.0	ug/L	1	6010B	Total		
							Recoverable		
Iron	9800	200	50	ug/L	1	6010B	Total		
							Recoverable		
Sodium	15	0.50	0.31	mg/L	1	6010B	Total		
							Recoverable		
Chloride	37	1.0	0.40	mg/L	2	300.0	Total/NA		
Ammonia as N	2.0	0.060	0.030	mg/L	1	350.1	Total/NA		
Total Dissolved Solids	180	10	10	mg/L	1	SM 2540C	Total/NA		
Field pH	5.35			SU	1	Field Sampling	Total/NA		
Field Temperature	23.52			Degrees C	1	Field Sampling	Total/NA		
Oxygen, Disselved	0.22			mg/L	1	Field Sampling	Total/NA		
Specific Conductance	344			umhos/cm	1	Field Sampling	Total/NA		
Turbidity	6.48			NTU	1	Field Sampling	Total/NA		

Client Sample ID: TH-30 Lab Sample ID: 660-49									
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac C	Method	Prep Type	
Iron	430		200	50	ug/L		6010B	Total	
Sodium	31		0.50	0.31	mg/L	1	6010B	Recoverable Total Recoverable	
Chloride	130	J3	2.5	1.0	mg/L	5	300.0	Total/NA	
Ammonia as N	2.4	J3	0.060	0.030	mg/L	1	350.1	Total/NA	
Total Dissolved Solids	280		10	10	mg/L	1	SM 2540C	Total/NA	
Field pH	3.94				su	1	Field Sampling	Total/NA	
Field Temperature	23.50				Degrees C	1	Field Sampling	Total/NA	
Oxygen, Dissolved	0.15				mg/L	1	Field Sampling	Total/NA	
Specific Conductance	462				umhos/cm	1	Field Sampling	Total/NA	
Turbidity	1.83				NTU	1	Field Sampling	Total/NA	

Client Sample ID: TH-42			Lab Sample ID: 660-4868					
Analyte	Result Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	220	200	50	ug/L	1	_	6010B	Total Recoverable
Sodium	16	0.50	0.31	mg/L	1		6010B	Total Recoverable

Client: Hillshorough County Findic Utilities Dep

Project/Site: Southeast Landfill

Client Sample ID: TH-42 (Co	ontinued)					<u>La</u>	30	טו Sample : ניטו	660-48683
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		0.50	0.20	mg/L	1	_	300.0	Total/NA
Ammonia as N	0.53		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	6.50				su	1		Field Sampling	Total/NA
Field Temperature	24.06				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.86				mg/L	1		Field Sampling	Total/NA
Specific Conductance	454				umhos/cm	1		Field Sampling	Tota!/NA
Turbidity	7.16				NTU	1		Field Sampling	Total/NA
Client Sample ID: DUPLICA	TE NOT BLA	NK				La	b	Sample ID: 6	660-48683-
Analyte	Rosuit	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		10	4.0	ug/L	1	_	6010B	Total
									Recoverable
Iron	11000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	27		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	64		5.0		mg/L	10		300.0	Total/NA
Ammonia as N	2.0		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	250		10	10	mg/L	1		SM 2540C	Total/NA
lient Sample ID: BLANK E	QUIPMENT					Lá	b	Sample ID: 6	60-48683-
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.64		0.50	0.31	mg/L	1	_	6010B	Total
Oblacida									Recoverable
Chloride Ammonia as N	0.39 0.20	1	0.50 0.060	0.20	mg/L mg/L	1		300.0 350.1	Total/NA Total/NA
Client Sample ID: TH-40						La	ab ·	Sample ID: 6	360-48683 -
Analyte	Paguite	Qualifier	PQL	MDL	11-14				
Sodium	18		0.50	0.31		Dil Fac	_	Method 6010B	Prep Type
Sodium	10		0.50	0.31	mg/L	ı		60 106	Total Recoverable
Chloride	8.5		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.68		0.060	0.030	_	1		350.1	Total/NA
Total Dissolved Solids	200		10		mg/L	1		SM 2540C	Total/NA
Ciald at t	7.39				su	1		Field Sampling	Total/NA
rieia pri	1.00								
•					Degrees C	1		Field Sampling	Total/NA
Field Temperature	23.78 0.60				Degrees C mg/L	1		Field Sampling Field Sampling	Total/NA Total/NA
Field Temperature	23.78 0.60				mg/L	1		Field Sampling	Total/NA
Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity	23.78				-				
Field Temperature Oxygen, Dissolved Specific Conductance	23.78 0.60 389				mg/L umhos/cm	1 1 1	ab	Field Sampling Field Sampling	Total/NA Total/NA Total/NA
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57	23.78 0.60 389 0.18	Qualifier	PQL	MDL	mg/L umhos/cm NTU	1 1 1		Field Sampling Field Sampling Field Sampling	Total/NA Total/NA Total/NA
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity	23.78 0.60 389 0.18	Qualifier	PQL 200		mg/L umhos/cm NTU	1 1 1		Field Sampling Field Sampling Field Sampling Sample ID: 6	Total/NA Total/NA Total/NA 660-48683-
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte	23.78 0.60 389 0.18 Result	Qualifier	200	50	mg/L umhos/cm NTU Unit ug/L	1 1 1 La		Field Sampling Field Sampling Field Sampling Sample ID: 6 Method 6010B	Total/NA Total/NA Total/NA 660-48683- Prep Type Total Recoverable
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte Iron	23.78 0.60 389 0.18	Qualifier		50	mg/L umhos/cm NTU	1 1 1 Lá		Field Sampling Field Sampling Field Sampling Sample ID: 6	Total/NA Total/NA Total/NA 660-48683- Prep Type Total Recoverable Total
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Fient Sample ID: TH-57 Analyte Iron Sodium	23.78 0.60 389 0.18 Result 1200	Qualifier	200	50 0.31	mg/L umhos/cm NTU Unit ug/L mg/L	1 1 1 La Dil Fac		Field Sampling Field Sampling Field Sampling Sample ID: 6 Method 6010B	Total/NA Total/NA Total/NA 660-48683- Prep Type Total Recoverable Total Recoverable
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte Iron Sodium Chloride	23.78 0.60 389 0.18 Result 1200 17	Qualifier	200 0.50 1.0	50 0.31 0.40	mg/L umhos/cm NTU Unit ug/L mg/L	1 1 1 La		Field Sampling Field Sampling Field Sampling Sample ID: 6 Method 6010B 300.0	Total/NA Total/NA Total/NA 660-48683- Prep Type Total Recoverable Total Recoverable Total/NA
Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte	23.78 0.60 389 0.18 Result 1200	Qualifier	200	0.31 0.40 0.030	mg/L umhos/cm NTU Unit ug/L mg/L	1 1 1 La Dil Fac		Field Sampling Field Sampling Field Sampling Sample ID: 6 Method 6010B	Total/NA Total/NA Total/NA 660-48683- Prep Type Total Recoverable Total Recoverable

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-57 (C								Sample ID:	
Analyte	Result	Qualifier	PQL	MOL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	26.28				Degrees C	1	_	Field Sampling	Total/NA
Oxygen, Dissolved	0.27				mg/L	1		Field Sampling	Total/NA
Specific Conductance	274				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.12				NTU	1		Field Sampling	Total/NA
lient Sample ID: TH-72 W	ACS# 27753					Li	ab	Sample ID:	660-48712
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	390		200	50	ug/L	1	_	6010B	Total Recoverable
Sodium	70		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	190		2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.9	J3	0.060	0.030		1		350.1	Total/NA
Total Dissolved Solids	650		25		mg/L	1		SM 2540C	Total/NA
Field pH	6.54				SU	1		Field Sampling	Total/NA
Field Temperature	23.52				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.23				mg/L			Field Sampling	Total/NA
Specific Conductance	900				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.40				NTU	1		Field Sampling	Total/NA
lient Sample ID: TH-28A V	VACS# 19862					Lá	ab	Sample ID: (660-48712
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4000		200	50	ug/L	<u> </u>	-	6010B	Total
Sodium	29		0.50	0.31	mg/L	1		6010B	Recoverable Total
Chlorido	7.								Recoverable
Chloride	75		2.0	0.80	mg/L	4		300.0	Total/NA
Ammonia as N	3.0		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	150		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.25				SU	1		Field Sampling	Total/NA
Field Temperature	26.77				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.49				mg/L	1		Field Sampling	Total/NA
Specific Conductance	344				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.53				NTU	1		Field Sampling	Total/NA
lient Sample ID: TH-19 WA	ACS# 821		***************************************	a.M. MARTIN L. 186		Li	ab	Sample ID: (60-48712
Analyto		Qualifier	PQL	MDL		Dil Fac	<u>D</u>	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	7.9		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.54		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	210		10		mg/L	1		SM 2540C	Total/NA
field pH	6.69				SU	1		Field Sampling	Total/NA
Field Temperature	23.49				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.63				mg/L	1		Field Sampling	Total/NA
Specific Conductance	304				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.42				NTU	1		Field Sampling	Total/NA
lient Sample ID: TH-58 WA	CC# 1571					1		Sample ID:	200 40740

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Client Sample ID: TH-58 \								Sample ID:	
Analyte	Result	Qualifier	PQL	MDL	Unit	Oil Fac	D	Method	Prep Type
Arsenic	24		10	4.0	ug/L	1		6010B	Total
Iron	3400		200	50	ug/L	1		6010B	Recoverable Total
Sodium	30		0.50	0.31	mg/L	1		6010B	Recoverable Total
Chloride	87		2.0	0.80	mg/L	4		300.0	Recoverable Total/NA
Ammonia as N	1.4		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	310		10		mg/L	1		SM 2540C	Total/NA
Field pH	5.72				SU	1		Field Sampling	Total/NA
Field Temperature	26.35				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.62				mg/L	1		Field Sampling	Total/NA
Specific Conductance	527				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.34				NTU	1		Field Sampling	Total/NA
lient Sample ID: SUP 2	WACS# 27756					La	b	Sample ID: (660-48712
Analyte		Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.6		0.50	0.31	mg/L	1	_	6010B	Total
Chlcride	10		0.50	0.00				200.0	Recoverable
Ammonia as N	10 0.40		0.50 0.060	0.20	mg/L	1		300.0	Total/NA
Total Dissolved Solids	190		10	0.030	mg/L	1		350.1	Total/NA
Field pH	7.35		10	10	mg/L	1		SM 2540C	Total/NA
Field Temperature	24.69				SU Doorsoo C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.08				Degrees C	1		Field Sampling	Total/NA
Specific Conductance	275				mg/L	1		Field Sampling	Total/NA
Turbidity	0.07				umhos/cm NTU	1		Field Sampling Field Sampling	Total/NA Total/NA
lient Sample ID: SUP 1	WACS# 27755	The same of the sa				La	ıb	Sample ID: (660-48712
Analyte	Rosuit	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.5		0.50	0.31	mg/L	1	_	6010B	Total Recoverable
Chloride	9.1		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.57		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	160		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	24.61				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	263				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.02				NTU	1		Field Sampling	Total/NA
lient Sample ID: TH-73 \	NACS# 27754					La	ıb	Sample ID: (660-48712
Analyte		Qualifier	PQL	MDL		Dil Fac	D	Method	Prep Type
lron	4000		200	50	ug/L	1		6010B	Total Recoverabl
Sodium	18		0.50	0.31	mg/L	1		6010B	Total Recoverabl
	50		2.0	0.80	mg/L	4		300.0	Total/NA
Chloride			0.000	0.030	mg/L	1		350.1	Total/NA
	1.7		0.060	0.030	g. =			330.1	
Ammonia as N	1.7 140		5.0		mg/L	1		SM 2540C	Total/NA
Chloride Ammonia as N Total Dissolved Solids Field pH					=	1 1			

Detection Summary

Cliant: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Lab Sa	mple ID:	660~	18712-7	•
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Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.31				mg/L		_	Field Sampling	Total/NA
Specific Conductance	232				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.00				NTU	1		Field Sampling	Total/NA

Client Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

07/05/12 10:37

07/05/12 10:37

07/05/12 10:37

Client Sample ID: TH-74
Date Collected: 07/05/12 10:37

Oxygen, Dissolved

Turbidity

Specific Conductance

Lab Sample ID: 660-48683-1

Matrix: Ground Water

Date Received: 07/05/12 14:43			West of the second control of the second con	1		manufacture consequence on the con-	***************************************	maurix. Oroun	
Method: 6010B - Metals (ICP)	- Total Recoverat	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		10	4.0	ug/L		07/06/12 10:56	07/09/12 11:58	
Iron	11000		200	50	ug/L		07/06/12 10:56	07/09/12 11:58	1
Sodium	27		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 11:58	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73		2.5	1.0	mg/L			07/12/12 11:11	
Ammonia as N	2.1		0.060	0.030	mg/L			07/09/12 19:50	1
Total Dissolved Solids	240		10	10	mg/L			07/11/12 09:07	1
Method: Field Sampling - Fiel	d Sampling								
Analyte	Rosuit	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.99			·	SU			07/05/12 10:37	
Field Temperature	23.09				Degrees C			07/05/12 10:37	1

mg/L

NTU

umhos/cm

0.32

495

5.33



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-75

Lab Sample ID: 660-48683-2

Matrix: Ground Water

Date Collected: 07/05/12 13:01 Date Received: 07/05/12 14:43

Method: 6010B - Metals (ICP) - 7	otal Recoverat	ole							
Analyte	Rosult	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		10	4.0	ug/L		07/06/12 10:56	07/09/12 12:11	
Iron	9800		200	50	ug/L		07/06/12 10:56	07/09/12 12:11	1
Sodium	15		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:11	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		1.0	0.40	mg/L			07/12/12 11:26	
Ammonia as N	2.0		0.060	0.030	mg/L			07/09/12 19:52	
Total Dissolved Solids	180		10	10	mg/L			07/11/12 09:07	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.35				SU	- -		07/05/12 13:01	
Field Temperature	23.52				Degrees C			07/05/12 13:01	1
Oxygen, Dissolved	0.22				mg/L			07/05/12 13:01	
Specific Conductance	344				umhos/cm			07/05/12 13:01	
Turbidity	6.48				NTU			07/05/12 13:01	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-30

Lab Sample ID: 660-48683-3

	•	
Date	Collected:	07/05/12 12:54
Date	Received:	07/05/12 14:43

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:14	
Iron	430		200	50	ug/L		07/06/12 10:56	07/09/12 12:14	1
Sodium	31		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:14	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	J3	2.5	1.0	mg/L			07/13/12 09:28	
Ammonia as N	2.4	J3	0.060	0.030	mg/L			07/09/12 20:20	1
Total Dissolved Solids	280		10	10	mg/L			07/11/12 09:07	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	3.94				SU			07/05/12 12:54	
Field Temperature	23.50				Degrees C			07/05/12 12:54	1
Oxygen, Dissolved	0.15				mg/L			07/05/12 12:54	1
Specific Conductance	462				umhos/cm			07/05/12 12:54	1
Turbidity	1.83				NTU			07/05/12 12:54	•



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-42

Lab Sample ID: 660-48683-4

Client Sample ID: 14-42	Lal
Date Collected: 07/05/12 12:14	
Date Received: 07/05/12 14:43	
The second section of the sect	

Method: 6010B - Metals (ICP)	- Total Recoverat	le							
Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:18	<u></u>
iron	220		200	50	ug/L		07/06/12 10:56	07/09/12 12:18	1
Sodium	16		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:18	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		0.50	0.20	mg/L			07/12/12 16:08	1
Ammonia as N	0.53		0.060	0.030	mg/L			07/09/12 20:24	1
Total Dissolved Solids	280		10	10	mg/L			07/11/12 09:07	1
Method: Field Sampling - Field	d Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.50				SU	- -		07/05/12 12:14	1
Field Temperature	24.06				Degrees C			07/05/12 12:14	1
Oxygen, Dissolved	0.86				mg/L			07/05/12 12:14	1
Specific Conductance	454				umhos/cm			07/05/12 12:14	1
Turbidity	7.16				NTU			07/05/12 12:14	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: DUPLICATE NOT BLANK

Date Collected: 07/05/12 00:00 Date Received: 07/05/12 14:43 Lab Sample ID: 660-48683-5

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		10	4.0	ug/L		07/06/12 10:56	07/09/12 12:55	1
Iron	11000		200	50	ug/L		07/06/12 10:56	07/09/12 12:55	1
Sodium	27		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:55	1
General Chemistry									
Analyte	Rosuit	Qualifier	PQL	MDL.	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		5.0	2.0	mg/L			07/12/12 17:10	10
Ammonia as N	2.0		0.060	0.030	mg/L			07/09/12 20:25	1
Total Dissolved Solids	250		10	10	mg/L			07/11/12 09:07	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: BLANK EQUIPMENT

Date Collected: 07/05/12 09:25 Date Received: 07/05/12 14:43 Lab Sample ID: 660-48683-6

Method: 6010B - Metals (ICP) Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:58	1
fron	50	U	200	50	ug/L		07/06/12 10:56	07/09/12 12:58	1
Sodium	0.64		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:58	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.39	ı	0.50	0.20	mg/L			07/13/12 14:39	1
Ammonia as N	0.20		0.060	0.030	mg/L			07/09/12 20:29	1
Total Dissolved Solids	5.0	11	5.0	5.0	ma/L			07/11/12 09:07	



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-40 Lab Sample ID: 660-48683-7

Date Collected: 07/05/12 09:46
Date Received: 07/05/12 14:43
Matrix: Ground Water

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	Ü	10	4.0	ug/L		07/06/12 10:56	07/09/12 12:45	1
ron	50	U	200	50	ug/L		07/06/12 10:56	07/09/12 12:45	1
Sodium	18		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 12:45	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		0.50	0.20	mg/L			07/13/12 13:53	1
Ammonia as N	0.68		0.060	0.030	mg/L			07/09/12 20:26	1
Total Dissolved Solids	200		10	10	mg/L			07/11/12 09:07	1
Method: Field Sampling - Field	d Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.39				SU			07/05/12 09:46	1
Field Temperature	23.78				Degrees C			07/05/12 09:46	1
Oxygen, Dissolved	0.60				mg/L			07/05/12 09:46	1
Specific Conductance	389				umhos/cm			07/05/12 09:46	1
Turbidity	0.18				NTU			07/05/12 09:46	1

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-57

Lab Sample ID: 660-48683-8

Matrix: Ground Water

Date Collected: 07/05/12 10:09
Date Received: 07/05/12 14:43

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/06/12 10:56	07/09/12 13:09	1
iron	1200		200	50	ug/L		07/06/12 10:56	07/09/12 13:09	1
Sodium	17		0.50	0.31	mg/L		07/06/12 10:56	07/09/12 13:09	1
General Chemistry									
Analyte	Rosult	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54		1.0	0.40	mg/L			07/17/12 14:05	2
Ammonia as N	1.5		0.060	0.030	mg/L			07/09/12 20:28	1
Total Dissolved Solids	170		5.0	5.0	mg/L			07/11/12 09:07	1
Method: Field Sampling - Field	d Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.11				SU			07/05/12 10:09	1
Field Temperature	26.28				Degrees C			07/05/12 10:09	1
Oxygen, Dissolved	0.27				mg/L			07/05/12 10:09	1
Specific Conductance	274				umhos/cm			07/05/12 10:09	1
Turbidity	1.12				NTU			07/05/12 10:09	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-72 WACS# 27753

Date Collected: 07/06/12 10:23 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-1

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	Ü	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:33	
Iron	390		200	50	ug/L		07/09/12 08:39	07/09/12 17:33	1
Sodium	70		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:33	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	Ð	Prepared	Analyzed	Dil Fac
Chloride	190		2.5	1.0	mg/L			07/17/12 14:21	5
Ammonia as N	2.9	J3	0.060	0.030	mg/L			07/09/12 19:22	1
Total Dissolved Solids	650		25	25	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field	1 Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.54				SU			07/06/12 10:23	1
Field Temperature	23.52				Degrees C			07/06/12 10:23	1
Oxygen, Dissolved	0.23				mg/L			07/06/12 10:23	1
Specific Conductance	900				umhos/cm			07/06/12 10:23	1
Turbidity	0.40				NTU			07/06/12 10:23	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-28A WACS# 19862

Date Collected: 07/06/12 09:29 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-2

Method: 6010B - Metals (ICP) -	Total Recoverab	le							
Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:45	1
ron	4000		200	50	ug/L		07/09/12 08:39	07/09/12 17:45	1
Sodium	29		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:45	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		2.0	0.80	mg/L			07/13/12 16:42	4
Ammonia as N	3.0		0.060	0.030	mg/L			07/09/12 19:36	1
Total Dissolved Solids	150		10	10	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.25				SU			07/06/12 09:29	1
Field Temperature	26.77				Degrees C			07/06/12 09:29	1
Oxygen, Dissolved	0.49				mg/L			07/06/12 09:29	1
Specific Conductance	344				umhos/cm			07/06/12 09:29	1
Turbidity	3.53				NTU			07/06/12 09:29	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-19 WACS# 821

Date Collected: 07/06/12 11:24 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-3

Analyto	Rosult	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 17:49	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 17:49	1
Sodium	14		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:49	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		0.50	0.20	mg/L			07/19/12 13:34	1
Ammonia as N	0.54		0.060	0.030	mg/L			07/09/12 19:39	1
Total Dissolved Solids	210		10	10	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field	l Sampling								
Analyto	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.69				SU			07/06/12 11:24	1
Field Temperature	23.49				Degrees C			07/06/12 11:24	1
Oxygen, Dissolved	0.63				mg/L			07/06/12 11:24	1
Specific Conductance	304				umhos/cm			07/06/12 11:24	1
Turbidity	0.42				NTU			07/06/12 11:24	1

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-48712-4

Date Collected: 07/06/12 10:50 Date Received: 07/06/12 14:20

Method: 6010B - Metals (ICP) - Total	l Recoverab	le							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		10	4.0	ug/L		07/09/12 08:39	07/09/12 17:52	1
Iron	3400		200	50	ug/L		07/09/12 08:39	07/09/12 17:52	1
Sodium	30		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 17:52	1
- General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87		2.0	0.80	mg/L			07/13/12 16:58	4
Ammonia as N	1.4		0.060	0.030	mg/L			07/09/12 19:43	1
Total Dissolved Solids	310		10	10	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field Sam	pling								
Analyte	Rosult	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.72	-			SU			07/06/12 10:50	1
Field Temperature	26.35				Degrees C			07/06/12 10:50	1
Oxygen, Dissolved	0.62				mg/L			07/06/12 10:50	1
Specific Conductance	527				umhos/cm			07/06/12 10:50	1
Turbidity	2.34				NTU			07/06/12 10:50	1



Client: Hilisborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: SUP 2 WACS# 27756

Date Collected: 07/06/12 11:56 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-5

Method: 6010B - Metals (ICP) -	Total Recoverat	ole							
Analyte	Rosult	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	Ū	10	4.0	ug/L		07/09/12 08:39	07/09/12 18:02	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 18:02	1
Sodium	8.6		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 18:02	1
General Chemistry									
Analyte	Rosult	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		0.50	0.20	mg/L			07/19/12 14:20	1
Ammonia as N	0.40		0.060	0.030	mg/L			07/09/12 19:44	1
Total Dissolved Solids	190		10	10	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.35				SU			07/06/12 11:56	1
Field Temperature	24.69				Degrees C			07/06/12 11:56	1
Oxygen, Dissolved	0.08				mg/L			07/06/12 11:56	1
Specific Conductance	275				umhos/cm			07/06/12 11:56	1
Turbidity	0.07				NTU			07/06/12 11:56	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Client Sample ID: SUP 1 WACS# 27755

Date Collected: 07/06/12 12:23 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-6

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 18:06	1
Iron	50	U	200	50	ug/L		07/09/12 08:39	07/09/12 18:06	1
Sodium	8.5		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 18:06	1
General Chemistry									
Analyto	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		0.50	0.20	mg/L			07/13/12 16:11	1
Ammonia as N	0.57		0.060	0.030	mg/L			07/09/12 19:45	1
Total Dissolved Solids	160		10	10	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.27				SU			07/06/12 12:23	1
Field Temperature	24.61				Degrees C			07/06/12 12:23	1
Oxygen, Dissolved	0.07				mg/L			07/06/12 12:23	1
Specific Conductance	263				umhos/cm			07/06/12 12:23	1
Turbidity	0.02				NTU			07/06/12 12:23	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

*restAmerica Job ID: 660-48683-1

Client Sample ID: TH-73 WACS# 27754

Date Collected: 07/06/12 10:01

Lab Sample ID: 660-48712-7

Date Received: 07/06/12 14:20								matrix: Groun	u water
Method: 6010B - Metals (ICP) - Total I	Recoverat	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		07/09/12 08:39	07/09/12 18:09	1
Iron	4000		200	50	ug/L		07/09/12 08:39	07/09/12 18:09	1
Sodium	18		0.50	0.31	mg/L		07/09/12 08:39	07/09/12 18:09	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		2.0	0.80	mg/L			07/13/12 17:13	4
Ammonia as N	1.7		0.060	0.030	mg/L			07/09/12 19:47	1
Total Dissolved Solids	140		5.0	5.0	mg/L			07/12/12 11:37	1
Method: Field Sampling - Field Samp	ling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.77				SU			07/06/12 10:01	1
Field Temperature	24.63				Degrees C			07/06/12 10:01	1
Oxygen, Dissolved	0.31				mg/L			07/06/12 10:01	1
Specific Conductance	232				umhos/cm			07/06/12 10:01	1
Turbidity	9.00				NTU			07/06/12 10:01	1



QC Sample Results

Client Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-126331/1-A

Matrix: Water

Analysis Batch: 126384

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 126331

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

Lab Sample ID: LCS 660-126331/2-A

Matrix: Water

Analysis Batch: 126384

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

Prep Batch: 126331

	Spik	e LCS	LCS			%Rec.	
Analyte	Adde	d Result	Qualifier Unit	. D	%Rec	Limits	
Arsenic	100	1020	ug/L	 _	102	75 - 125	
Iron	100	1020	ug/L		102	75 - 125	
Sodium	10.	10.3	mg/l	L	103	75 - 125	

Lab Sample ID: 660-48683-1 MS

Matrix: Ground Water

Analysis Batch: 126384

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

Prep Batch: 126331

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

Lab Sample ID: 660-48683-1 MSD

Matrix: Ground Water

Prep Type: Total Recoverable Analysis Batch: 126384

Prep Batch: 126331

Client Sample ID: TH-74

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

Lab Sample ID: 660-48683-7 MS

Matrix: Ground Water Analysis Batch: 126384

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

Prep Batch: 126331

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

Lab Sample ID: 660-48683-7 MSD

Matrix: Ground Water Analysis Batch: 126384 Client Sample ID: TH-40

Prep Type: Total Recoverable Prep Batch: 126331

		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
i	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Arsenic	4.0	Ü	1000	1050		ug/L	_	105	75 - 125	1	20
İ	Iron	50	U	1000	1060		ug/L		106	75 - 125	0	20
_	Sodium	18		10.0	28.5		mg/L		105	75 - 125	0	20

QC Sample Results

Client: Hillsborough County Fublic Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

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

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

Matrix: Water

Analysis Batch: 126384

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 126370

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

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

Matrix: Water

Analysis Batch: 126384

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

Prep Batch: 126370

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

Lab Sample ID: 660-48712-1 MS

Matrix: Ground Water

Analysis Batch: 126384

Client Sample ID: TH-72 WACS# 27753

Prep Type: Total Recoverable

Prep Batch: 126370

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

Lab Sample ID: 660-48712-1 MSD

Matrix: Ground Water

Analysis Batch: 126384

Client Sample ID: TH-72 WACS# 27753

Prep Type: Total Recoverable

Prep Batch: 126370

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-126551/4

Matrix: Water

Analysis Batch: 126551

Client Sample ID: Method Blank

07/12/12 08:52

Prep Type: Total/NA

Dil Fac

MB MB Analyte Result Qualifier **MDL** Unit Prepared Analyzed

0.20 Ų

Lab Sample ID: LCS 660-126551/5

Matrix: Water

Chloride

Analysis Batch: 126551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 10.0 10.1 mg/L 101 90.110

0.50

0.20 mg/L

QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Method: 300.0 - Anions, Ion Ch	romat	ogra	aphy (C	ontinue	d)									
Lab Sample ID: 660-48670-C-4 MS 4	10										Client	Sample ID		
Matrix: Water												Prep 1	ype: To	otal/NA
Analysis Batch: 126551														
	Sample	Sam	ple	Spike		MS	MS					%Rec.		
Analyte	Result	Qual	ifior	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	270	J3		100		370		mg/L		_	102	90 - 110		
- Lab Sample ID: 660-48670-C-4 MSD	. 440								Clion		amala IF): Matrix S	nika Du	- lie e te
Matrix: Water	, ,,								Olleli	il Se	ample it			•
												Freb i	ype: To	OCAUNA
Analysis Batch: 126551	Sample	Came	nla	Spike		MSD	MSD					%Rec.		000
Anahda	•			•				1 Imia		_	8/ Dag		000	RPE
Analyte	Result		irier	Added		Result		Unit		D	%Rec	Limits	RPD	Limit
Chloride	270	J3		100		391	J3	mg/L			123	90 - 110	6	30
Lab Sample ID: MB 660-126593/10 Matrix: Water											Client S	Sample ID:	Method ype: To	
Analysis Batch: 126593												riep i	ype. It	Jeanine
Allalysis Datell. 120353		МВ	MB											
Analyte	D	esult	Qualifier		PQL		MDL Unit		D	D	repared	Anaha	-04	Dil Fac
Chloride		0.20			0.50				. – -		repared	Analy: 07/12/12		DII Pat
- Cinolida		0.20	U		0.50		0.20 mg/L					0//12/12	15:36	1
Lab Sample ID: LCS 660-126593/11									CI	ient	Sample	ID: Lab C		•
Matrix: Water												Prep I	ype: To	otal/NA
Analysis Batch: 126593														
				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				10.0		9.51		mg/L			95	90 - 110		
Lab Sample ID: 660-48683-4 MS												Client Sar	nole ID:	: TH-42
Matrix: Ground Water													ype: To	
Analysis Batch: 126593												up .	ypo. It	o tall 147
Allalysis Datcii. 120055	Sample	Sam	nie	Spike		MS	MS					%Rec.		
Analyte	Result		-	Added			Qualifier	Unit		D	%Rec	Limits		
Chloride	17			10.0		26.5		mg/L		_	97	90.110		
- CHARLES	.,,			10.0		20.5		mg/L			31	90.110		
Lab Sample ID: 660-48683-4 MSD												Client Sar	nple ID:	: TH-42
Matrix: Ground Water												Prep 1	ype: To	otal/NA
Analysis Batch: 126593														
	Sample	Sam	ple	Spike		MSD	MSD					%Rec.		RPC
Analyte	Result	Qual	lifter	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride	17			10.0		26.1		mg/L		_	93	90 - 110	2	30
											C!:4 6		86-41	
Lab Sample ID: MB 660-126603/4											Cilent	Sample ID:		
Matrix: Water												Prep	ype: To	otal/NA
Analysis Batch: 126603		wo	MD											
Anghe		MB			001		BATSI IInia		•	_		A l		Dil E-
Analyte Chloride			Qualifier U		PQL 0.50		MDL Unit		_ <u>D</u> .		repared	Analy: 07/13/12		Dil Fac
- -			•											
Lab Sample ID: LCS 660-126603/5									CI	ient	Sample	ID: Lab C	ontrol S	Sample
Matrix: Water												Prep 1	ype: To	otal/NA
Analysis Batch: 126603												-		
				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		

TestAmerica Job ID: 660-48683-1

Lab Sample ID: 660-48683-3 MS Matrix: Ground Water											Client San		
Analysis Batch: 126603											Prep 1	ype: To	tal/NA
Analysis Battii. 120003	Sample	Sample	Spike		MS	MS					%Rec.		
Analyte	•	Qualifier	Added		Rosult	=	Unit		D	%Roc	Limits		
Chloride	130	73	50.0		174	J3	mg/L		=	83	90 - 110		
Lab Sample ID: 660-48683-3 MSD											Client San	nde ID:	TU_30
Matrix: Ground Water												ype: To	
Analysis Batch: 126603												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Sample	Sample	Spike		MSD	MSD					%Rec.		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	130	J3	50.0		183		mg/L			103	90 - 110	- 5	30
Lab Sample ID: 660-48683-7 MS											Client San	ple ID:	TH-40
Matrix: Ground Water												ype: To	
Analysis Batch: 126603												•	
	•	Sample	Spike		MS	MS					%Rec.		
Analyto		Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	8.5		10.0		18.5		mg/L			100	90 - 110		
Lab Sample ID: 660-48683-7 MSD											Client San	ple ID:	TH-40
Matrix: Ground Water												ype: Tot	
Analysis Batch: 126603											•		
	Sample	Sample	Spike		MSD	MSD					%Rec.		RPD
Analyte		Qualifier	Added			Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	8.5		10.0		18.9		mg/L			105	90 - 110	2	30
Lab Sample ID: MB 660-126720/4										Client	Sample ID: I	الم ما خمالا	Diank
Matrix: Water										Chent		vieuloa ype: Tol	
Analysis Batch: 126720											Liehi	ype: 10	AVIVA
· · · · · · · · · · · · · · · · · · ·		MB MB											
Analyte	R	esult Qualifier		PQL		MDL Unit		D	P	repared	Analyz	ed	Dil Fac
Chloride		0.20 U		0.50		0.20 mg/L					07/17/12		1
Lab Sample ID: LCS 660-126720/5								Cli	ent	Sample	e ID: Lab Co	ntrol S	mole
Matrix: Water												ype: To	•
Analysis Batch: 126720											•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			10.0		9.52		mg/L		_	95	90 - 110		
Lab Sample ID: 660-48806-B-4 MS										Client	t Sample ID:	Matrix	Spike
Matrix: Water											•	ype: To	-
Analysis Batch: 126720											•		
milary 313 Deterit. 120729		Sample	Spike		MS	MS					%Rec.		
Analysis Salain. 120729	Sample	Cumpio	•				11-14		-	9/ Daa	Limits		
Analyte	Result	Qualifier	Added		Rosult	Qualifier	Unit		D	%Rec			
Analyte	•	•	Added 10.0		Rosult 28.3	Qualifier	mg/L		-	92	90 - 110		
Analyte Chloride	Result 19	•				Qualifier		Clien	-	92		oike Dup	licate
Analyte Chloride Lab Sample ID: 660-48806-B-4 MSI	Result 19	•				Qualifier		Clien	-	92	90 - 110 D: Matrix Sp	ike Dup	
Analyte Chloride Lab Sample ID: 660-48806-B-4 MSI Matrix: Water	Result 19	Qualifier	10.0		28.3			Clien	-	92	90 - 110 D: Matrix Sp Prep T		tal/NA
Analyte	Result 19	•			28.3 MSD	MSD Qualifier		Clien	-	92	90 - 110 D: Matrix Sp		



QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

										Oli		
										Client		
											Fieb Type	. TOTALINA
	MB	MB										
R	esult	Qualifier		PQL		MDL Unit		D	P	repared	Analyzed	Dil Fa
	0.20	Ū		0.50		0.20 mg/L		·			- 	
								0"	•	0		
								Cili	ent	Sample		•
											Prep Type	: Iotal/N/
			Snike		LCS	LCS					%Rec	
			•				Unit		D	%Rec		
			10.0		9.80		mg/L		_	98	90 - 110	
								_				
								С	lie	nt Samp		
											Prep Type	: Total/N/
Cample	C	-1-	Calles		***	***						
-			•				11_!a		_	4 D		
	Quali					Qualifier			_			
7.3			10.0		10.3		mg/L			104	90.110	
								С	lie	nt Samp	ole ID: TH-19 W	ACS# 82
											Prep Type	: Total/N/
Sample	Samp	ole	Spike		MSD	MSD					%Rec.	RPI
Result	Quali	ifier	Added		Rosult	Qualifier	Unit		D	%Rec	Limits R	PD Limi
7.9			10.0		18.3		mg/L		_	105	90.110	0 3
nonia												
										Client S	Sample ID: Met	had Blani
										Ollent 2	•	
											Fieb Type	. IUGUNA
	MB	MB										
R	esuit	Qualifier		PQL		MDL Unit		D	P	repared	Analyzed	Dil Fa
	0.030	Ū		0.060		0.030 mg/L						
								CIII	ent	Sample		
											Prep Type	: Total/N/
			Spike		1.00	LCS					4/ D = -	
					LUS				_	% D	%Rec.	
			-		Deaule	Out all files						
			Added			Qualifier	Unit		D —	%Rec	Limits	
			-		Result 0.528	Qualifier	mg/L		D -	106	90 - 110	
			Added			Qualifier			_	106		
			Added			Qualifier			_	106	90 - 110	
			Added			Qualifier			_	106	90 - 110 ID: TH-72 WAG	
Sample Result			Added		0.528 MS	Qualifier MS Qualifier		Clie	_	106	90 - 110 ID: TH-72 WAG	
_	Sample Result 7.9 Sample Result 7.9	Sample Sample Result Qual 7.9 Sample Sample Sample Result Qual 7.9	Sample Sample Rosult Qualifier 7.9 Sample Sample Result Qualifier 7.9	Result Qualifier 0.20 U Spike Added 10.0 Sample Sample Spike Result Qualifier Added 7.9 10.0 Sample Sample Spike Result Qualifier Added 7.9 10.0	Result Qualifier PQL 0.20 U 0.50 Spike Added 10.0 Sample Sample Spike Result Qualifier Added 7.9 10.0 Sample Sample Spike Added 7.9 10.0	Result Qualifier PQL O.20 U O.50 Spike LCS Added Rosult 10.0 9.80 Sample Sample Spike MS Result Qualifier Added Result 7.9 10.0 18.3 Sample Sample Spike MSD Result Qualifier Added Rosult 7.9 10.0 18.3	Result Qualifier PQL MDL Unit Spike	Result Qualifier PQL MDL Unit	Result Qualifier PQL MDL Unit D	MB MB Result Qualifier PQL MDL Unit D P	MB MB Result Qualifier PQL MDL Unit D Prepared	Result Qualifier PQL



QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

	noma (Continued)									
 Lab Sample ID: 660-48712-1 MSD							Client	Sample	D: TH-72	WACS#	27753
Matrix: Ground Water								•	Prep T	ype: To	tal/NA
Analysis Batch: 126409									•	•	
	•	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ammonia as N	2.9	J3	1.00	3.70	J3	mg/L		78	90 - 110	1	30
Lab Sample ID: 660-48712-3 MS							Clie	nt Sam	ple ID: TH-1	9 WACS	821
Matrix: Ground Water									Prep T	ype: To	tal/NA
Analysis Batch: 126409											
	-	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Ammonia as N	0.54		1.00	1.61		mg/L		107	90 - 110		
Lab Sample ID: 660-48712-3 MSD							Clie	ent Sam	ple ID: TH-1	9 WACS	S# 821
Matrix: Ground Water									Prep T	ype: To	tal/NA
Analysis Batch: 126409									•		
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ammonia as N	0.54		1.00	1.64		mg/L		110	90 - 110	2	30
· -										80.46	
Lab Sample ID: MB 660-126410/3								Client 3	Sample ID:	metnoa	Blank
Lab Sample ID: MB 660-126410/3 Matrix: Water								Client	Sample ID: Prep T		
Matrix: Water								Client	-	metnoa ype: To	
•		MB MB						Client	-		
Matrix: Water	R	MB MB esult Qualifier		PQL	MDL Unit		D F	Client S	-	ype: To	
Matrix: Water Analysis Batch: 126410				 	MDL Unit		D		Prep T	ype: To	tai/NA
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N		esult Qualifier	···(Prepared	Analyz 07/09/12	ype: To	Dii Fac
Matrix: Water Analysis Batch: 126410 Analyte		esult Qualifier		 				Prepared	Prep T Analyz 07/09/12 e ID: Lab Co	ype: To	Dil Fac
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4		esult Qualifier		 				Prepared	Prep T Analyz 07/09/12 e ID: Lab Co	ype: To	Dil Fac
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water		esult Qualifier	Spike	0.060				Prepared	Prep T Analyz 07/09/12 e ID: Lab Co	ype: To	Dil Fac
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water		esult Qualifier		0.060 c	0.030 mg/L	Unit		Prepared	Analya 07/09/12 e ID: Lab Co Prep T	ype: To	Dil Fac
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410		esult Qualifier	Spike	0.060 c	0.030 mg/L LCS Qualifier	Unit mg/L	Clien	Prepared t Sample	Analyz 07/09/12 e ID: Lab Co Prep T %Rec.	ype: To	Dil Fac
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte		esult Qualifier	Spike Added	0.060 LCS Result	0.030 mg/L LCS Qualifier		Clien	repared t Sample	Analyz 07/09/12 e ID: Lab Co Prep T %Rec. Limits	ed 20:18 ontrol S ype: To	Dil Fac
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N		esult Qualifier	Spike Added	0.060 LCS Result	0.030 mg/L LCS Qualifier		Clien	repared t Sample	Analya 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San	ted 20:18 control Safype: To	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS		esult Qualifier	Spike Added	0.060 LCS Result	0.030 mg/L LCS Qualifier		Clien	repared t Sample	Analya 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San	ed 20:18 ontrol S ype: To	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water		esult Qualifier	Spike Added	LCS Result 0.523	0.030 mg/L LCS Qualifier		Clien	repared t Sample	Analya 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San	ted 20:18 control Safype: To	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water	Sample	esult Qualifier 0.030 U	Spike Added 0.500	LCS Result 0.523	0.030 mg/L LCS Qualifier		Clien	repared t Sample	Analya 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San	ted 20:18 control Safype: To	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water Analysis Batch: 126410	Sample	Sample Qualifier	Spike Added 0.500	LCS Result 0.523	LCS Qualifier MS Qualifier	mg/L	Clien	Prepared **Rec 105	Analyz 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San Prep T	ted 20:18 control Safype: To	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water Analysis Batch: 126410 Analyte Ammonia as N	Sample Result	Sample Qualifier	Spike Added 0.500 Spike Added	LCS Result 0.523 MS Result	LCS Qualifier MS Qualifier	mg/L Unit	Clien	Prepared *Rec 105	Analyz 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San Prep T %Rec. Limits 90 - 110	ed 20:18 ontrol Saype: To	DII Fac 1 ample tal/NA TH-30 tal/NA
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MSD	Sample Result	Sample Qualifier	Spike Added 0.500 Spike Added	LCS Result 0.523 MS Result	LCS Qualifier MS Qualifier	mg/L Unit	Clien	Prepared *Rec 105	Analyz O7/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San Prep T %Rec. Limits 90 - 110	rype: Total 20:18 ontrol Sa ype: Total	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MSD Matrix: Ground Water	Sample Result	Sample Qualifier	Spike Added 0.500 Spike Added	LCS Result 0.523 MS Result	LCS Qualifier MS Qualifier	mg/L Unit	Clien	Prepared *Rec 105	Analyz O7/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San Prep T %Rec. Limits 90 - 110	ed 20:18 ontrol Saype: To	Dil Fac 1 ample tal/NA TH-30
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MSD	Sample Result 2.4	Sample Qualifier	Spike Added 0.500 Spike Added 1.00	LCS Result 0.523 MS Result 3.10	LCS Qualifier MS Qualifier	mg/L Unit	Clien	Prepared *Rec 105	Analyz Analyz 07/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San Prep T Client San Prep T	rype: Total 20:18 ontrol Sa ype: Total	DII Fac 1 ample tal/NA TH-30 tal/NA
Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: LCS 660-126410/4 Matrix: Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MS Matrix: Ground Water Analysis Batch: 126410 Analyte Ammonia as N Lab Sample ID: 660-48683-3 MSD Matrix: Ground Water	Sample Result 2.4	Sample Qualifier J3	Spike Added 0.500 Spike Added	LCS Result 0.523 MS Result 3.10	LCS Qualifier MS Qualifier J3	mg/L Unit	Clien	Prepared *Rec 105	Analyz O7/09/12 e ID: Lab Co Prep T %Rec. Limits 90 - 110 Client San Prep T %Rec. Limits 90 - 110	rype: Total 20:18 ontrol Sa ype: Total	Dil Fac 1 ample tal/NA TH-30



QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Method: SM 2540C - Solids, Total Dissolved (TDS) Lab Sample ID: MB 660-126474/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA Analysis Batch: 126474 MB MB Analyte Result Qualifier PQL **MDL** Unit D Prepared Analyzed Dil Fac **Total Dissolved Solids** 5.0 U 5.0 5.0 mg/L 07/11/12 09:07 Lab Sample ID: LCS 660-126474/2 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 126474 Spike LCS LCS %Rec. Analyto Added Result Qualifier Unit D %Rec Limits **Total Dissolved Solids** 10000 9920 80 - 120 mg/L 99 Lab Sample ID: 640-39314-B-2 DU Client Sample ID: Duplicate Matrix: Water Prep Type: Total/NA Analysis Batch: 126474 Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit RPD Limit **Total Disselved Solids** 170 194 mg/L 20 Lab Sample ID: MB 660-126547/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA Analysis Batch: 126547 MB MB Result Qualifier PQL **MDL** Unit D Prepared Dil Fac Analyzed **Total Dissolved Solids** 5.0 5.0 5.0 mg/L 07/12/12 11:37 Lab Sample ID: LCS 660-126547/2 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 126547 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Roc Limits **Total Dissolved Solids** 10000 9920 80 - 120 mg/L 99 Lab Sample ID: 640-39345-A-2 DU Client Sample ID: Duplicate Matrix: Water Prep Type: Total/NA Analysis Batch: 126547 Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Unit D Limit **Total Dissolved Solids** 320 320 7 mg/L 20



TestAmerica Job ID: 660-48683-1

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Metals

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

Prep Batch: 126370

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

Analysis Batch: 126384

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

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QC Association Summary

Clien! Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

Metals (Continued)

Analysis Batch: 126384 (Continued)

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

General Chemistry

Analysis Batch: 126409

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

Analysis Batch: 126410

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

Analysis Batch: 126474

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

Project/Site: Southeast Landfill

General Chemistry (Continued)

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

Analysis Batch: 126551

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

Analysis Batch: 126593

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

Analysis Batch: 126603

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

Analysis Batch: 126720

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

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

660-48712-7

TH-73 WACS# 27754

TestAmerica Job ID: 660-48683-1

General Chemistr	y (Continued)				
Analysis Batch: 1267	20 (Continued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-126720/4	Method Blank	Total/NA	Water	300.0	
Analysis Batch: 1268	34				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48712-3	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48712-3 MS	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48712-3 MSD	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48712-5	SUP 2 WACS# 27756	Total/NA	Ground Water	300.0	
LCS 660-126834/6	Lab Control Sample	Total/NA	Water	300.0	
MB 660-126834/5	Method Blank	Total/NA	Water	300.0	
Field Service / Mo	bile Lab	The state of the s			
Analysis Batch: 1263	28				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48683-1	TH-74	Total/NA	Ground Water	Field Sampling	
660-48683-2	TH-75	Total/NA	Ground Water	Field Sampling	
660-48683-3	TH-30	Total/NA	Ground Water	Field Sampling	
660-48683-4	TH-42	Total/NA	Ground Water	Field Sampling	
660-48683-7	TH-40	Total/NA	Ground Water	Field Sampling	
660-48683-8	TH-57	Total/NA	Ground Water	Field Sampling	
Analysis Batch: 1263	71				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48712-1	TH-72 WACS# 27753	Total/NA	Ground Water	Field Sampling	
660-48712-2	TH-28A WACS# 19862	Total/NA	Ground Water	Field Sampling	
660-48712-3	TH-19 WACS# 821	Total/NA	Ground Water	Field Sampling	
660-48712-4	TH-58 WACS# 1571	Total/NA	Ground Water	Field Sampling	
660-48712-5	SUP 2 WACS# 27756	Total/NA	Ground Water	Field Sampling	
660-48712-6	SUP 1 WACS# 27755	Total/NA	Ground Water	Field Sampling	
000-101 12-0		10001111	0.000.0	i idia dampinig	

Total/NA

Ground Water

Field Sampling

Project/Site: Southeast Landfill

Client Sample ID: TH-74 Date Collected: 07/05/12 10:37

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-1

Matrix: Ground Water

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

Client Sample ID: TH-75

Date Collected: 07/05/12 13:01 Date Received: 07/05/12 14:43 Lab Sample ID: 660-48683-2

Matrix: Ground Water

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

Client Sample ID: TH-30 Date Collected: 07/05/12 12:54

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-3

Matrix: Ground Water

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

Client Sample ID: TH-42

Date Collected: 07/05/12 12:14 Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-4

Matrix: Ground Water

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

Project/Site: Southeast Landfill

Client Sample ID: DUPLICATE NOT BLANK

Date Collected: 07/05/12 00:00 Date Received: 07/05/12 14:43 Lab Sample ID: 660-48683-5
Matrix: Ground Water

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

Client Sample ID: BLANK EQUIPMENT

Date Collected: 07/05/12 09:25 Date Received: 07/05/12 14:43 Lab Sample ID: 660-48683-6

Matrix: Ground Water

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

Client Sample ID: TH-40 Date Collected: 07/05/12 09:46

Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-7

Matrix: Ground Water

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

Client Sample ID: TH-57
Date Collected: 07/05/12 10:09
Date Received: 07/05/12 14:43

Lab Sample ID: 660-48683-8

Matrix: Ground Water

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

Project/Site: Southeast Landfill

Client Sample ID: TH-72 WACS# 27753

Date Collected: 07/06/12 10:23 Date Received: 07/06/12 14:20

Lab Sample ID: 660-48712-1

Matrix: Ground Water

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

Client Sample ID: TH-28A WACS# 19862

Date Collected: 07/06/12 09:29 Date Received: 07/06/12 14:20

Lab Sample ID: 660-48712-2

Matrix: Ground Water

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

Client Sample ID: TH-19 WACS# 821

Date Collected: 07/06/12 11:24 Date Received: 07/06/12 14:20

Lab Sample ID: 660-48712-3

Matrix: Ground Water

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

Client Sample ID: TH-58 WACS# 1571

Date Collected: 07/06/12 10:50

Date Received: 07/06/12 14:20

Lab Sample ID: 660-48712-4

Matrix: Ground Water

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

Project/Site: Southeast Landfill

Client Sample ID: SUP 2 WACS# 27756

Date Collected: 07/06/12 11:56 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-5 Matrix: Ground Water

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

Client Sample ID: SUP 1 WACS# 27755

Date Collected: 07/06/12 12:23 Date Received: 07/06/12 14:20 Lab Sample ID: 660-48712-6

Matrix: Ground Water

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

Client Sample ID: TH-73 WACS# 27754

Date Collected: 07/06/12 10:01

Date Received: 07/06/12 14:20

Lab Sample ID: 660-48712-7

Matrix: Ground Water

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

Laboratory References:

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

Certification Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 600-48683-1

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

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.

10

Method Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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



Sample Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-48683-1

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



13

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

PRECLEANED SAMPLE CONTAINERS:		DATE TIME					
RELINQUISHED BY:	_ REP. OF CONTRACT LAB.	1					
ACCEPTED BY: Air Clay ton	REP. OF SOLID WASTE DEPT	F. 6,29,121 2:30					
LOCATION: TH-74 WACS# 28307 PERSONAL ENGAGED IN SAMPLE COLLECT	SAMPLE MATRIX: WATER OTH	HER MATRIX:					
WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 17.00 Ft. DEPTH TO WATER: 9.5% Ft. LENGTH OF WATER COL: 7.42 Ft. VOLUME TO PURGE: 1.19 Gal	PURGE STARTED: PURGE RATE: PURGE ENDED: ACT. VOL. PURGED: Draw Down:	DATE TIME 7-5-12 10:25 0.20 GPM. DATE TIME 7-5-12 10:37 2.40 GAL. 10.30					
FIEL	PARAMETERS:						
BY TIME TEMP AB JC 10:33 23.16 AB JC 10:35 23.16 AB JC (6:37 23.09	558 3.09 0.40	TURB /2.4 = 7.91 3.33					
SAMPI	LE CONTAINERS						
QTY CONTAINER DESCRIPTION QTY	CONTAINER DESCRIPTION	PRESERVED					
40 ml VIAL 125 ml. PLASTIC	40 ml VIAL						
125 ml GLASS	125 ml. PLASTIC 125 ml GLASS						
/ 250 ml. PLASTIC Z	250 ml. PLASTIC						
250 ml. GLASS	250 ml. GLASS						
/ 500 ml PLASTIC	500 ml. PLASTIC						
500 ml. GLASS LITER PLASTIC	500 ml. GLASS						
LITER GLASS	LITER PLASTIC LITER GLASS						
BACTERIAL	BACTERIAL						
TOTAL NO. OF DEFENDED COLLEGE	CTED:	COLLECTED					
Colors and SheensANALYS	IS REQUESTED:	DATE TIME 7-5-12 /0:37					
AMMONIA-NITROGEN CHLORIDE SODIUM T	DS Iron Arsenic						
PRESERVED SAMPLES PH < 2.0	SAMPLE STORAGE: COOLER	& ICE TO 4.0 c					
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43							
COMMENT'S: WOH OGUY							

PREC	CLEANED SAMP	LE CONTAI	NERS:					DATE T	'IME
REL:	INQUISHED BY				REP. O	F CONTRAC	T LAB.		
ACCI	EPTED BY: ATION: TH-75 SONAL ENGAGEI	Air	Clay	ton	_ REP. O	F SOLID W	ASTE DEPT	1. 6.29.12 2	30
LOCA	ATION: TH-75	WACS# 28	308		SAMPLE I	MATRIX. W	∆गग्रह!⊅ ∩ग्गः	IED MATRITY.	
PERS	SONAL ENGAGE) IN SAMP	LE COL	.ፐ.ድርጥ	TON FIL	A Balloon	TER OIL	EV MAIKIY:	
	2	J III OIMIL	0D COL	TILLOT	10N <u>up</u> ,	H.DETTOOM	_ <u> </u>		·
WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 17.00 Ft. PURGE STARTED: 7-5-12 /0:50 DEPTH TO WATER: 7.46 Ft. PURGE RATE: 5.20 GPM. LENGTH OF WATER COL: 9.54 Ft. VOLUME TO PURGE: 1.53 Gal. PURGE ENDED: 7-5-12 /1:00 ACT. VOL. PURGED: 2.20 GAL. Draw Down: 7.70									
			<u> </u>	FIEL) PARAMET	ERS:			
	BY	TIME	TEM	œ I	COND	PH	I DO	TURB	
	AB JC	10:57			344	5.34	0.31	4.5(=	
	AB .(0)	10:59	23.	52	344	5,34		6.49	
	AB JE	11:01	23.	521	344	5.35	6.22	4.48	
Omic	2017				LE CONTAI				
QTY		DESCRIPTION)И 	QTY	_ !	LINER DESCR		PRESERVED	
		nl VIAL		İ		40 ml VIAL			
		. PLASTIC				5 ml. PLAS			
		nl GLASS				125 ml GLAS	S		
		. PLASTIC		2		0 ml. PLAS			
		1. GLASS	·	<u> </u>		250 ml. GLA			
		. PLASTIC				00 ml. PLAS			
		1. GLASS				00 ml. GLAS	33		
		PLASTIC	·			ITER PLAST:			
		R GLASS TERIAL		<u> </u>		LITER GLASS			
	BAU	TERIAL		L	<u> </u>	BACTERIAL			
	TOTAL No	. OF SAME	PLES C	OLLE	CTED:			COLLECT	ED.
Colo	rs and Sheen	.s							IME
		·						7=5-12/11	
			AN	ALYS:	IS REQUES	TED:		1-1-1-11-1	21_
АММО	NIA-NITROGEN	CHLORIDE	SODI	UM TI	DS Iron A	rsenic		•	
PRES	ERVED SAMPLE	S PH < 2.	0	•••	SAMPLE	STORAGE:	COOLER	 & TCE TO 4 (0 c
					<u> </u>				
RELI	E LISTED SAM NQUISHED BY: PTED BY:	PLES:	laz	-	_ REP. OF	'SOLID WA	STE DEPT	. 7-5-12 2:	
	.	-pur-	- Jane			CONTINCI	. TUD.	7-5-12 2:	42
COMM	ENT'S: WO	#00 G4	-					•	• •
								110 00	0/2.

4.8 CU-07

PRE	PRECLEANED SAMPLE CONTAINERS: DATE TIME								
REL	INQUISHED BY	•			_ REP. O	CONTRACT	r LAB.		
ACC	EPTED BY:	Sin Cl	aste	· •	_ REP. O	F SOLID WA	ASTE DEP	r. <u>429.121</u>	2:30
T.O.C	ΔΤΤΟΝ• ΤΗ-30	WACS# 104	() [SAMPLE N	<i>ለ</i> አጥርፓህ፣ ቴክን	יייר מיביחו	UPD MAMDIV	
DEB	ATION: <u>TH-30</u> SONAL ENGAGE	TNI SAMOI	E COL	T ሮርመ	TON MA	MAIRIA: WA	TER OII	TER MATRIX	·
FLIK	BONAL ENGAGE	D IN DUMET	E COL	TECT	TOM GB.	A.BALLOON	<u>6</u> 20		
WELL DIAMETER: 2.00 INCH: TOTAL DEPTH OF WELL: 46.19 Ft. PURGE STARTED: 7-5-12 /2:36 DEPTH TO WATER: 23.76 Ft. PURGE RATE: DATE TIME VOLUME TO PURGE: 3.59 Gal. PURGE ENDED: 7-5-12 /2:54 ACT. VOL. PURGED: GAL. Draw Down: 24,00									
			<u> 1</u>	FIELI	PARAMET	ERS:			
	BY	TIME	TEM	DP	COND	PH (DO	TURB	
	AB JC	12:50	23.	51	458	3,83	6.17	3.02 =	
	AB SC	12:52		50	440	3.87	0.16	1 2,04	
	AB JO	12154	23.	50	442	<u> 3.94 </u>	0.15	11.83	
			8	SAMPI	E CONTAI	NERS			
QTY	CONTAINER	DESCRIPTION	ŧ	QTY	CONTA	NER DESCRI	PTION	PRESERVED	7
		l VIAL				40 ml VIAL		·	1
		PLASTIC			129	ml. PLAST	ī.C		1
		1 GLASS				25 ml GLASS			1
		PLASTIC		2_		ml. PLAST]
, 		. GLASS PLASTIC				0 ml. GLAS			4
-		GLASS) ml. PLAST; 00-ml. GLASS			4
		PLASTIC				TER PLASTIC			
		RGLASS				LITER GLASS			-
	BACT	TERIAL				BACTERIAL			7
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 7-5-12 12-5-4 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: A Clouder REP. OF SOLID WASTE DEPT 7-8-12 2:43									
	RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43								
COM	MENT'S: <u>wo</u>	1000	elf	나	<u>s</u>				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	HII	LSBOROUGH	COUN	TY D	EPT. OF S	SOLID WAST	E COC SE	HEET	

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SOUTHEAST LANDFILL WELL MONITORING PROGRAM

4.8 CU-07 7/24/2012

PRECLEANED SAMPLE CONTAINERS:		DATE TIME				
RELINQUISHED BY:		REP. OF CONTRACT LAB.				
ACCEPTED BY: Lin Clay	to	REP. OF SOLID WASTE DEPT. 6.29.12 2:30				
LOCATION: TH-42 WACS# 823 PERSONAL ENGAGED IN SAMPLE CO		SAMPLE MATRIX: WATER OTHER MATRIX:				
WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 164.00 DEPTH TO WATER: \$2.22 LENGTH OF WATER COL: \$1.78 VOLUME TO PURGE: #3.08	_ Ft. Ft.	PURGE RATE: O.70 GPM. DATE TIME				
	FIELD	PARAMETERS:				
BY TIME TE ABJC 12:10 24: ABJC 12:12 24: ABJC 12:(4 24:	03 06	455 1 6.34 0.91 9.42 =				
	SAMPL	E CONTAINERS				
QTY CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION PRESERVED				
40 ml VIAL 125 ml. PLASTIC		40 ml VIAL				
125 ml GLASS	 	125 ml. PLASTIC 125 ml GLASS				
250 ml. PLASTIC	2	250 ml. PLASTIC				
250 ml. GLASS		250 ml. GLASS				
/ 500 ml. PLASTIC		500 ml. PLASTIC				
500 ml. GLASS		500 ml. GLASS				
LITER PLASTIC LITER GLASS	1	LITER PLASTIC				
BACTERIAL		LITER GLASS BACTERIAL				
	<u> </u>	BACTERIAL				
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 7-5-12/12/14						
AMMONIA-NITROGEN CHLORIDE SO	DIUM I	TDS Iron Arsenic				
PRESERVED SAMPLES PH < 2.0		SAMPLE STORAGE: COOLER & ICE TO 4.0 c				
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY:	ton	REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43				
COMMENT'S: WO # OOC4						

4.8 00-07

13

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

PRECLEANED SAMPLE CONTAINERS: REP. OF CONTRACT LAB. ACCEPTED BY: REP. OF CONTRACT LAB. REP. OF SOLID WASTE DEPT. (-29,12) 2:30 BAPLE CONTAINER DEPT. (-29,12) 2:30 BAPLE CONTAINER MATRIX: MATER OTHER MATRIX: BARPLE CONTAINERS OTY CONTAINER DESCRIPTION OF PRESERVED AO ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. PLASTI		MONITORIN	G WEI	LS DUPLICATE SAMPI	मः
RELINQUISHED BY: REP. OF CONTRACT LAB. REP. OF SOLID WASTE DEPT. (2.27.12. 2:30 LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION: A.Balloon of 10 10 10 FIELD PARAMETERS: N/A SAMPLE CONTAINERS OTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. GLASS	PRECI				
ACCEPTED BY: A: Clay REP. OF SOLID WASTE DEPT. 4.29.12. 2:30 LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION: A.Balloon of 1c C C FIELD PARAMETERS: N/A SAMPLE CONTAINERS SAMPLE CONTAINERS SAMPLE CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml.			- .		<u> </u>
ACCEPTED BY: A: Clay to Both Matrix: Mater Other Matrix: Container Duplicate Sample Matrix: Mater Other Matrix:				REP. OF CONTRACT LAB.	
FIELD PARAMETERS: N/A SAMPLE CONTAINERS OTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. PLASTIC 125 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC LITER PLA	» a c a a		_	·	
FIELD PARAMETERS: N/A SAMPLE CONTAINERS OTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. PLASTIC 125 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC LITER PLA	ACCE	PTED BY:	Down	_ REP. OF SOLID WASTE DE	PT. 4.29.12 2:30
FIELD PARAMETERS: N/A SAMPLE CONTAINERS OTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. PLASTIC 125 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC LITER PLA	LOCAT	TION · DIIDI.TCATE		SAMPLE MATRICE, MARRIED AND	MIDD MAMBELL
SAMPLE CONTAINERS SAMPLE CONTAINERS QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION FRESERVED 40 ml vial 40 ml vial 125 ml. Plastic 125 ml. Glass 125 ml G	DEDCA	NAT ENCACED IN CAMPUS C	OTT DOM:	SAMPLE MATRIX: WATER OT	HER MATRIX:
SAMPLE CONTAINERS QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml	FERS	DWAL ENGAGED IN SAMPLE C	OLLECT.	LUN : LYA. Balloon G (C	
SAMPLE CONTAINERS QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml					
SAMPLE CONTAINERS QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml		I	FIELD P	ARAMETERS: N/A	
QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml, PLASTIC 125 ml, PLASTIC 125 ml GLASS 125 ml GLASS / 250 ml, PLASTIC 2 250 ml, PLASTIC 250 ml, GLASS 250 ml, GLASS / 500 ml, PLASTIC 500 ml, PLASTIC 500 ml, PLASTIC 500 ml, PLASTIC LITER PLASTIC LITER PLASTIC LITER GLASS LITER GLASS BACTERIAL BACTERIAL TOTAL NO. OF SAMPLES COLLECTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: REP. OF SOLID WASTE DEPT. 7 -12 2:43 ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-(2) 2:43 ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-(2) 2:43		÷			
QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml, PLASTIC 125 ml, PLASTIC 125 ml GLASS 125 ml GLASS / 250 ml, PLASTIC 2 250 ml, PLASTIC 250 ml, GLASS 250 ml, GLASS / 500 ml, PLASTIC 500 ml, PLASTIC 500 ml, PLASTIC 500 ml, PLASTIC LITER PLASTIC LITER PLASTIC LITER GLASS LITER GLASS BACTERIAL BACTERIAL TOTAL NO. OF SAMPLES COLLECTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: REP. OF SOLID WASTE DEPT. 7 -12 2.43 ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-(2) 2.43					
40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. PLASTIC 125 ml. GLASS 125 ml.				E CONTAINERS	
125 ml PLASTIC 125 ml PLASTIC 125 ml GLASS 1250	QTY		QTY	CONTAINER DESCRIPTION	PRESERVED
125 ml GLASS 125 ml GLASS 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. GLASS 250 ml. GL					
ANALYSIS REQUESTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic AMOVE LISTED SAMPLES: REP. OF CONTRACT LAB. REP. OF CONTRACT LAB. 250 ml. PLASTIC LASS (250 ml. GLASS (250 ml.					
ANALYSIS REQUESTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: ANALYSIS REP. OF CONTRACT LAB. ASS DO ml. GLASS SOU ml.	-,-	125 ML GLASS	 _ 		
ANALYSIS REQUESTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: ASS SOU M1. GLASS SOU M1. GLASS LITER PLASTIC LITER PLASTIC LITER GLASS LITER GLASS LITER GLASS LITER GLASS LITER GLASS BACTERIAL COLLECTED COLLECTED ANALYSIS REQUESTED: SAMPLE STORAGE: COOLER & ICE TO 4.0 C PRESERVED SAMPLES: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. DATE TIME 7-5-72 2:43 REP. OF CONTRACT LAB. REP. OF CONTRACT LAB. T-5-72 2:43			 2		
S00 ml. GLASS LITER PLASTIC LITER GLASS BACTERIAL TOTAL No. OF SAMPLES COLLECTED: COLLECTED ANALYSIS REQUESTED: ANALYSIS REQUESTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. Total Date Time Date Date Time Date Time Date Date Date Time Date Dat	1	500 ml. PLASTIC			
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: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43		500 ml. GLASS		500 ml. GLASS	
BACTERIAL HACTERIAL BACTERIAL BACTERIAL COLLECTED COLLECTED DATE TIME 7-5-72 — 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: REP. OF SOLID WASTE DEPT. 7-5-72 2:43 ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-72 2:43				LITER PLASTIC	
ANALYSIS REQUESTED: 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. REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. REP. OF CONTRACT LAB.				LITER GLASS	
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: Archive Rep. of Solid Waste Dept. Date Time 7-3-12 2:43 ACCEPTED BY: Rep. of Contract Lab. 7-5-72 2:43	<u> </u>	BACTERIAL		BACTERIAL	
ANALYSIS REQUESTED: 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: RELINQUISHED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. T-5-(2) 2:43	4	TOTAL No. OF SAMPLES	COLLEC	TED:	
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. ACCEPTED BY: REP. OF CONTRACT LAB. T-5-(2) 2:43					COLLECTED
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. REP. OF CONTRACT LAB. REP. OF CONTRACT LAB.					
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. REP. OF CONTRACT LAB. REP. OF CONTRACT LAB.				·	7-5-12
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. ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-72 2:43					
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. ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-72 2:43			****		
PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43		:	ANALYSI	IS REQUESTED:	
PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43	AMMO	NIA-NITROGEN CHLORIDE S	י אוודמס	DS Tron Argenia	
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. 7-5-12 2:43					
RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43	PRESE	RVED SAMPLES PH < 2.0 _	<u> </u>	SAMPLE STORAGE: COOLER	R & ICE TO 4.0 c
RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB. 7-5-12 2:43	ABOVE	LISTED SAMPLES: .			ከአጥይ ፣ ጥተሐፍ
ACCEPTED BY: REP. OF CONTRACT LAB. 7-5-12 2:43			Ton.	REP. OF SOLID WASTE DES	
			V	REP. OF CONTRACT LAB.	
COMMENT'S: WOR OCCH		7	/		1-2 14 P. TU
COMMENT'S: Wo 体 O O G 件					
	COMME	NT'S: WOLF OOGH			
					

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

4.8 CU-07

13

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

PRE	CLEANED SAMPLE CONTAINERS	<u>:</u>		DATE TIME
REI	INQUISHED BY:		REP. OF CONTRACT LAB.	
ACC	CEPTED BY: Lin Clo	eyta	REP. OF SOLID WASTE DEP	
LOC	ATION: BLANK, EQUIPMENT SONAL ENGAGED IN SAMPLE C	OLLECT	SAMPLE MATRIX: WATER OT	HER MATRIX:
	<u>1</u>	FIELD P	ARAMETERS: N/A	
		SAMPL	E CONTAINERS	
QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS LITER PLASTIC		500 ml. GLASS	
	LITER GLASS		LITER PLASTIC	
	BACTERIAL		LITER GLASS BACTERIAL	
	TOTAL No. OF SAMPLES	COLLEC	CTED:	COLLECTED DATE TIME 7.5./2 9:25
			S REQUESTED:	
A	MMONIA-NITROGEN CHLORIDE	SODIUM	TDS Iron Arsenic	
PRE	SERVED SAMPLES PH < 2.0	<u>/</u>	SAMPLE STORAGE: COOLER	& ICE TO 4.0 c
REL	VE LISTED SAMPLES: INQUISHED BY: Air Clout EPTED BY:	el -	REP. OF SOLID WASTE DEPT	DATE TIME 7.5./2 2:43 7.5./2 2:43
COM	MENT'S: WO # OOGI+			
				4.8 04-07

PRE	PRECLEANED SAMPLE CONTAINERS:DATE TIME								
REI	INQUISHED BY:				_ REP. O	F CONTRAC	T LAB.		
ACC	EPTED BY:	Di inde	lay	ton	_ REP. O	F SOLID W	ASTE DEP	I. 6.29.12	2:30
LOC	ATION: TH-40	WACS# 82	2		SAMPT.E	MATRIY: W	ייים כושויות ג	UPD MAMOTY	,
LOCATION: TH-40 WACS# 822 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION DE A.Balloon DE COLLECTION									
LDI	DONAL ENGAGEL	IN DAME	LE CO.	PTECT	TON	A.Balloon	430		
WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 165.90 Ft. PURGE STARTED: 7-5-12 9:32 DEPTH TO WATER: 99.77 Ft. PURGE RATE: 1.00 GPM. LENGTH OF WATER COL: G6.13 Ft. VOLUME TO PURGE: 10.58 Gal. PURGE ENDED: ACT. VOL. PURGED: 7-5-12 9:46 ACT. VOL. PURGED: 79.75 FIELD PARAMETERS:									
	FIELD FARAMETERS:								
	BY	TIME	TE		COND	PH	IDO	TURB	
		9:42	23.		399	7.39	6.73	0.20 =	
		9:44	23		375	17.41	6.43	0.05	
	<u>ABJal</u>	9:44	23.	78-1	389	17.39	0.60	10.18	
				SAMPT	LE CONTAI	NEBS		_	
QTY	CONTAINER	DESCRIPTIO		QTY		INER DESCRI	PTION	PRESERVED	7
	40 m	L VIAL				40 ml VIAL			-
	125 ml.	PLASTIC		<u> </u>	12	5 ml. PLAST			
		LGLASS			1	25 ml GLASS	3		-
/	250 ml.	PLASTIC		2	25	0 ml. PLAST	IC	· · · · · · · · · · · · · · · · · · ·	-
		. GLASS			2	50 ml. GLAS	S		\dashv
	500 ml.	PLASTIC			50	0 ml. PLAST	IC		7
		GLASS			5	00 ml. GLAS:	s		
		PLASTIC			L	ITER PLASTIC	C		
		GLASS				LITER GLASS			7
]	BACT	ERIAL				BACTERIAL			╡
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 7-5-12 9.44									
			<u>A1</u>	IALYS:	IS REQUE	STED:			
AM	MONIA-NITROGE	N CHLORII	DE SOI	NUI	TDS Iron	Arsenic			
PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c									
ABOVE LISTED SAMPLES: RELINQUISHED BY: An Clostor ACCEPTED BY: Archively REP. OF SOLID WASTE DEPT. 2-5-12 2:43 REP. OF CONTRACT LAB. 7-6-12 2:43 COMMENT'S: WO # 0644									
COM	мемт э: <u>w</u>	# 004	4		<u> </u>			· · · · · · · · · · · · · · · · · · ·	
								- ·	
		****						<u> </u>	

4.8 cuo7

PRECLEANED SAMPLE CONTAINERS:					DATE TIME	
RELINQUISHED BY:		REP O	F CONTRAC	מגדיד	1	
					•	
ACCEPTED BY: Am Uny	701°	REP. C	F SOLID W	ASTE DEPT	. 6.29.12 2:30	
LOCATION: TH-57 WACS# 1570		SAMPLE	MATRIX: W	ATER OTH	ER MATRIX:	
PERSONAL ENGAGED IN SAMPLE COL	LECTI	ON <u>P</u>	A.Balloon	B 16		
VOLUME TO PURGE: 9.37	Ft. Ft. Gal.	PURGE RATE: 6.25 GPM. DATE TIME				
<u> </u>	FIELD	PARAME!	rers:			
BY TIME TEM		COND	PH	DO	TURB	
AB 10:05 24.3		289	5.15	6.54	<u> 1.77 </u>	
AB Je 10:07 124.2		280	5.12	0.37	1.50	
AB 10/0:09/24.2	ا سي	274	15.11	0.27	1.12	
	AMPL	E CONTA	INERS			
QTY CONTAINER DESCRIPTION	QTY	CONT	AINER DESCR	IPTION	PRESERVED	
40 ml VIAL			40 ml VIAI			
125 ml. PLASTIC	· · · · · · · · · · · · · · · · · · ·	1	25 ml. PLAS			
125 ml GLASS			125 ml GLAS	SS		
/ 250 ml. PLASTIC	2		50 ml. PLAS			
250 ml. GLASS 500 ml. PLASTIC			250 ml. GLA 00 ml. PLAS			
500 ml. GLASS		3	500 ml. GLA			
LITER PLASTIC			<u> </u>			
LITER GLASS			LITER GLAS			
BACTERIAL	<u> </u>		BACTERIAL			
4 TOTAL No. OF SAMPLES C	• 4				COLLECTED DATE TIME 7-5-12 10109	
		S REQUE				
AMMONIA-NITROGEN CHLORIDE SOD	IUM I	DS Iron	Arsenic			
PRESERVED SAMPLES PH < 2.0		SAMPLE	STORAGE:	COOLER	& ICE TO 4.0 c	
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-5-12 2:43 REP. OF CONTRACT LAB.						
COMMENT'S: WO # DOUNT H25						
HILLSBOROUGH COUN' SOUTHEAST LAND					EET 4.8 CU-07	

7/24/2012

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

PRECLEANED SAMPLE CONTAINERS:		660-48712 DATE TIME					
RELINQUISHED BY:		REP. OF CONTRACT LAB.					
ACCEPTED BY: Air Clays	ton	REP. OF	SOLID W	ASTE DEPT	. G. 29. 12 2:50		
LOCATION: TH-72 WACS# 27753		SAMPLE N	ATRIX: W	ATER OTH	ER MATRIX:		
PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon D 15							
WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 190.00 DEPTH TO WATER: 103.13 LENGTH OF WATER COL: 80.01 VOLUME TO PURGE: 13.74	Ft. Ft. Gal.	PURGE RATE: O.40 GPM. DATE TIME					
<u> </u>	'IELD	PARAMET	ERS:				
BY TIME TEM	P	COND	PH	l DO	TURB		
AB 10 10:19 23.5			4.51	0.25	6.21 =		
AB 10 10121 23.5		902	6,52	0.23	0.19		
AB JOH 11123 1 29.5	2	900	4.54	0.23	0.40		
s	AMPL	E CONTAI	NERS				
QTY CONTAINER DESCRIPTION	QTY		INER DESCR	IPTION	PRESERVED		
40 ml VIAL		 	40 ml VIA				
125 ml. PLASTIC		1.2	5 ml. PLAS		·		
125 ml GLASS			125 ml GLA				
/ 250 ml. PLASTIC 250 ml. GLASS	2	250 ml. PLASTIC 250 ml. GLASS			•		
/ 500 ml. PLASTIC			0 ml. PLAS				
500 ml. GLASS							
LITER PLASTIC		I					
LITER GLASS BACTERIAL							
Colors—and Sheens—	OLLEC	CTED:			COLLECTED DATE TIME 7-6-(2) /0.23		
ANZ	ALYSI	S REQUES	STED:				
							
AMMONTA-NITROGEN CHIORIDE S	ON TON	TIND TIC	w Arseni	<u> </u>			
PRESERVED SAMPLES PH < 2.0	/	SAMPLE	STORAGE:	COOLER	& ICE TO 4.0 c		
ABOVE LISTED SAMPLES:. Clayton REP. OF SOLID WASTE DEPT. 7-6-12 2:20 ACCEPTED BY: REP. OF CONTRACT LAB. 7-6-12 7:20							
COMMENT'S: Wo # OOG4	-						
				166	CU-07		

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SOUTHEAST LANDFILL WELL MONITORING FROGRAM

PRE	CLEANED SAMPLE CONTAINERS:		•	DATE T	IME		
REL	INQUISHED BY:		_ REP. OF CONTRACT LAB.				
ACC	EPTED BY: Ain Clouds	- Ann	_ REP. C	F SOLID WA	ASTE DEP	r. 6.291212	:30
LOC	ATION: TH-28A WACS# 19862						
PER	SONAL ENGAGED IN SAMPLE CO	LLECT	ION D	A.Balloon	ピンと		
WEL TOT DEP	L DIAMETER: 2.0 INCH: AL DEPTH OF WELL: 34.30 TH TO WATER: 28.16 GTH OF WATER COL: 6.44	_ Ft. _ Ft.		PURGE STAP	RTED:	DATE TI 7- 6-12 9: 0.24 GE	ME 20 M.
LEN	GTH OF WATER COL:	- Ft.		DUDCE END	en.	DATE TI	ME
AOT	UME TO PURGE: 0,98	_ Gal	•	ACT. VOI.	PURGED:	7. 9-12 4: 1.80 GA	29
				Draw Down:	:	28.95	
		FIEL!	D PARAME	<u> rers:</u>			
	BY TIME TE	MTP I	COND	PH	DO	TURB	
				5.32		4.54=	
	AB JC 9:27 24	.78	348	1 5,28	0.43	14.04	
			3 44	15.25	0,49	3,53	
		r——	LE CONTA				
QTY	CONTAINER DESCRIPTION	QTY		AINER DESCRI		PRESERVED	
	40 ml VIAL		I	40 ml VIAL			
	125 ml. PLASTIC 125 ml GLASS	<u> </u>		25 ml. PLAST			
	250 ml. PLASTIC	2		125 ml GLASS 0 ml. PLAST			
	250 ml. GLASS			250 ml. GLAS			
7	500 ml. PLASTIC	 	500 ml. PLASTIC				
	500 ml. GLASS	 		00 ml. GLAS			
	LITER PLASTIC		1		 ,		
	LITER GLASS		LITER GLASS				
	BACTERIAL		BACTERIAL				
	TOTAL No. OF SAMPLES	ZATTE					
	TOTAL NO. OF SAMPLES	COLLE	CTED:			COLLECT	משי
							IME
						7-6-12 9	
							-47
	A	NALYS	SIS REQUE	STED:			
	_						
AM	MONIA-NITROGEN CHLORIDE SOI	MUIC	TDS Iron	Arsenic			
DD 11	GERLIER GRANDING DU 4 0 0						
PRE	SERVED SAMPLES PH < 2.0		SAMPLE	STORAGE:	COOLER	& ICE TO 4.	0 C
REL	VE LISTED SAMPLES: INQUISHED BY:	to		F SOLID WA		DATE T T. 7-6-124 3	2:20
	7						
COM	MENT'S: Wo # 0064				· · · · · · · · · · · · · · · · · · ·		
							
			•		A / A0/-	n7	

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SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRE	CLEANED SAMPL	E CONTAIN	ERS:		6	60-4871	2	DATE	TIME
REL	INQUISHED BY:				REP. O	F CONTRACT	r LAB.		
ACC	EPTED BY:	Ani C	lout	2	REP. O	F SOLID W	ASTE DEPI	. 6.29.121	2:30
LOC	ATION: TH-19	WACS# 821	O		SAMPLE I	MATRIX: W	ATER OTE	ER MATRIX:	
PER	ATION: TH-19 SONAL ENGAGED	IN SAMPL	E COLI	LECT:	ION B	A.Balloon	12/12		
WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 153.60 Ft. DEPTH TO WATER: 103.90 Ft. LENGTH OF WATER COL: 49.70 Ft. VOLUME TO PURGE: 7.95 Gal.				PURGE RATE:			7-6-12 1 1.00 DATE T 7-6-12 1	GPM. IME	
			<u>r</u>	1511	PARAMET	EKS:			
		TIME		<u> </u>		PH	l DO	<u> </u>	
		11:20			305	4.71	0.71	1.30 =	
	ABJOI				304	4.70	0.48	0.92	
	ABJOI	<u> ハ!ス4 </u>	23.4	49	304	16.69	10.43	0.42	
SAMPLE CONTAINERS									
QTY	CONTAINER	DESCRIPTION		QTY	CONTA	INER DESCRI	PTION	PRESERVED	
	40 m	l VIAL				40 ml VIAL		· ·	
		PLASTIC			12	5 ml. PLAST			
		l GLASS				25 ml GLAS	S		
1		PLASTIC		2		0 ml. PLAST			
		. GLASS				50 ml. GLAS			
		PLASTIC				0 ml. PLAST			
		. GLASS			5	00 ml. GLAS	6		
		GLASS			LITER PLASTIC LITER GLASS				
		ERIAL			BACTERIAL				
	4 TOTAL NO	OF SAMP	LES Co	OLLE	CTED:			COLLEC DATE 7- 6-12-	TIME
			AN	<u>A</u> LYS	IS REQUE	STED:			
ΔM	MONIA-NITROGE	מדפטואי אי	E SOD	TIIM	שיים דיים	Argenia			
	SERVED SAMPLE	· ·- · · · · · · · · · · · · · · · · ·					COOLER	 & ICE TO 4	
						Diolaton.		<u> </u>	
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-6-12 2:20 REP. OF CONTRACT LAB. 7-6-12 2:20									
COM	COMMENT'S: WOLLOGGE								
	HII	LSBOROUGH	COUN	TY D	EPT. OF	SOLID WAS	TE COC SI	heet L CW07	<u></u>
					Page 53 of 5	9	`	V6	7/24/2012

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660-48712

PRECLEANED SAMPLE CONTAINERS:					DATE TIME
RELINQUISHED BY:		REP. C	F CONTRAC	T LAB.	1
ACCEPTED BY: Lim Clay	tor	REP. C	F SOLID W	ASTE DEPT	. 6.29.12 2:30
LOCATION: TH-58 WACS# 1571		SAMPLE	MATRIX: W	ATER OTH	ER MATRIX:
PERSONAL ENGAGED IN SAMPLE CO.	LLECT	ION D	A.Balloon	12 JC	
WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 32.92 DEPTH TO WATER: 27.40 LENGTH OF WATER COL: 5.52 VOLUME TO PURGE: 6.88	Ft. Ft.		PURGE RAT	E: ED: PURGED:	DATE TIME 7-6-12 10:39 6.15 GPM. DATE TIME 7-6-12 10:50 1.65 GAL. 27.72
	FIELD	PARAME	TERS:		
BY TIME TE	MP	COND	PH	l DO	TURB
		570	5.78	1.08	2.90 =
		548	5.74	0.78	2.53
AB JC 10:50 24.	351	527	5.72	10.62	12.34
	SAMDT.	E CONTA	TNEDQ		• ,
QTY CONTAINER DESCRIPTION	QTY	Т-	TAINER DESCR	TPTTON	PRESERVED
40 ml VIAL	1 2		40 ml VIA		EVEIDER AND
125 ml. PLASTIC		 	25 ml. PLAS		
125 ml GLASS	- 		125 ml GLAS		
/ 250 ml. PLASTIC	2		250 ml. PLAS		
250 ml. GLASS	 		250 ml. GLA		
/ 500 ml. PLASTIC		1 :	00 ml. PLAS		
500 ml. GLASS			500 ml. GLA		
LITER PLASTIC	1		LITER PLAST		
LITER GLASS		1	LITER GLAS		
BACTERIAL			BACTERIAL		
4 TOTAL No. OF SAMPLES	COLLE	CTED:			COLLECTED DATE TIME
A	NALYSI	IS REQUE	STED:		
AMMONIA-NITROGEN CHLORIDE SO					
			,		
PRESERVED SAMPLES PH < 2.0		_ SAMPLE	STORAGE:	COOLER	& ICE TO 4.0 c
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY:	ter	REP. C	OF SOLID W. OF CONTRAC	ASTE DEPT T LAB.	DATE TIME 7-6-12 2:20 7-6-12 2:20
COMMENT'S: wot ook		· · · · · · · · · · · · · · · · · · ·			
				tr 1	04.00

4-6 CUX07

660-48712

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

PRECLEANED SAMPLE CONTAINERS:					DATE TIME			
RELINQUISHED BY:	LAB.							
ACCEPTED BY: Air Clayt		REP. O	F SOLID WA	ASTE DEPT	· 6.29.12 2:30			
ACCEPTED BY: REP. OF SOLID WASTE DEPT. 6.29,12 2:30 LOCATION: SUP 2 WACS# 27756 SAMPLE MATRIX: WATER OTHER MATRIX:								
PERSONAL ENGAGED IN SAMPLE COI	LECTI	ON D	A.Balloon	風つら				
WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 7- 6-12 TIME 11:37 ACTUAL PURGE TIME: 19 MIN:								
	FIELD	PARAMET	'ERS:					
BY TIME TEN		COND	PH	DO_	TURB			
	62	275	7.33	90.0	1 0.03 =			
	(10)	275	7.34	0.08	10.04			
AB JC 11:54 24.	49 1	275	1 7.35	0.08	10.07			
	SAMPL	E CONTAI	NERS					
QTY CONTAINER DESCRIPTION	QTY	T	AINER DESCR	IPTION	PRESERVED			
40 ml VIAL	1	<u> </u>	40 ml VIAI	,				
125 ml. PLASTIC		1	25 ml. PLAS	TIC				
125 ml GLASS			125 ml GLAS	SS				
/ 250 ml. PLASTIC	2		50 ml. PLAS					
250 ml. GLASS			250 ml. GLA					
/ 500 ml. PLASTIC	- 		00 ml. PLAS					
500 ml. GLASS LITER PLASTIC			500 ml. GLA LITER PLAST					
LITER PLASTIC LITER GLASS	- 		LITER GLAST					
BACTERIAL	1	†	BACTERIAL					
世 TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE- TIME フーダーシール: 5女								
<u>Aì</u>	NALYS	IS REQUE	STED:					
AMMONIA-NITROGEN CHLORIDE SOD	IUM TI	OS Iron	Arsenic					
PRESERVED SAMPLES PH < 2.0	,	SAMPLE	STORAGE:	COOLER	& ICE TO 4.0 c			
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 7-6-12 2:20 REP. OF CONTRACT LAB. 7-9-12 2:20								
COMMENT'S: 60 # 0064	H2:	s						

4.6 CU-07

660-48712

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

PREC	PRECLEANED SAMPLE CONTAINERS: DATE TIME							
RELI	NQUISHED BY:		REP. OF CONTRAC	T LAB.				
ACCE	EPTED BY: Lin Clayt	- ng	REP. OF SOLID W	ASTE DEPT	. 6.29.121 2:30			
LOCA PERS	ACCEPTED BY: REP. OF SOLID WASTE DEPT. 6-79.12.1 2:30 LOCATION: SUP 1 WACS# 27755 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION RABALLOON RESERVED.							
WELI ACTU	WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 2-6-(2 TIME 12:04) ACTUAL PURGE TIME: 19 MIN:							
	<u> </u>	FIELD	PARAMETERS:					
	BY TIME TEM AB 10 12:19 24. AB 10 12:23 24. AB 10 12:23 24.	591 601 (e11	COND PH 2.4.3 7.2.4 2.4.3 7.2.7 2.4.3 7.2.7 E CONTAINERS	DO 0.07 0.07 0.07	TURB 0.04 = 6.00 0,02			
QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESC	RIPTION	PRESERVED			
	40 ml VIAL		40 ml VIA					
	125 ml. PLASTIC 125 ml GLASS	ļ	125 ml. PLA					
-	250 ml. PLASTIC	2	125 ml GLA 250 ml. PLA		 			
	250 ml. GLASS		250 ml. GL					
7	500 ml. PLASTIC	<u> </u>	500 ml. PLA					
	500 ml. GLASS	<u> </u>	500 ml. GL	ASS				
	LITER PLASTIC	ļ	LITER PLAS					
	LITER GLASS BACTERIAL		LITER GLA BACTERIA					
	TOTAL No. OF SAMPLES C	OLLEC		`	COLLECTED			
<u>.</u> .		-			DATE TIME 7-6-12 12 23			
			S REQUESTED:					
AMMO	ONIA-NITROGEN CHLORIDE SODI	UM TE	S Iron Arsenic					
PRES	SERVED SAMPLES PH < 2.0		SAMPLE STORAGE:	COOLER	& ICE TO 4.0 c			
RELI	ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 1-6-12 2:20 REP. OF CONTRACT LAB. 7-6-12 2:20							
COMN	MENT'S: WO # 0064 P	123						

4.6 CU-07

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

PREC	CLEANED SAMPLE CONTAINERS:					DATE I	IME
RELI	NQUISHED BY:		_ REP. C	F CONTRAC	T LAB.		
ACCE	EPTED BY: Air Clay &	- -	REP. C	F SOLID W	ASTE DEP	F. 6.29.12 2	:30
LOCA	ATION: TH-73 WACS#27754		SAMPLE	MATRIX: W	ATER OT	HER MATRIX:	
PERS	SONAL ENGAGED IN SAMPLE COL	LECT!	CON COM	A.Balloon	10 10	_	
	DIAMETER: 2 INCH: AL DEPTH OF WELL: 43.40	ត+		PURGE STA	פייבו.	DATE TIM	
DEPT	TH TO WATER: 9(.82	Ft.		PURGE RAT			<u>.</u>
LENG	STH OF WATER COL: 1.58	Ft.				DATE TI	ME
AOTO	ME TO PURGE: 1.85	Gal	ī	PURGE END	ED:	7-6-12 10.	<u>; o/</u>
				Draw Down	:	32,42	
	Fig. 1	ר. ואדי	PARAME	reps.			
	_	111111	IAMAPID	IEMO.			
	BY TIME TEM		COND	PH	l DO	TURB	
	AB JC1 9:57 24:0		238 234	4.82	0.40	12.4 =	
	AB Jel 10:01 240		237	4.77	0.31	9.00	
	· · · · · · · · · · · · · · · · · · ·		E CONTA			T	1
QTY	CONTAINER DESCRIPTION	QTY	CON	AINER DESCR	· · · · · · · · · · · · · · · · · · ·	PRESERVED	
	40 ml VIAL 125 ml. PLASTIC		 	40 ml VIA 125 ml. PLAS			
	125 ml GLASS		<u> </u>	125 ml GLA			
<u> </u>	250 ml. PLASTIC	2		250 ml. PLAS	STIC		
-	250 ml. GLASS 500 ml. PLASTIC		1	250 ml. GLA 00 ml. PLAS		<u> </u>	
	500 ml. GLASS	<u> </u>	 	500 ml. GLA			
	LITER PLASTIC			LITER PLAST			
	LITER GLASS BACTERIAL		<u> </u>	LITER GLAS			
•	BACIERIAL	L		BACTERIAI	<u> </u>		1
- 1	TOTAL No. OF SAMPLES C	OLLE	CTED:				
			······································		-	GOLLECI	
COTC	ors and Sheens						TME
	AN	ALYS:	IS REQUE	STED:		7- 9-12/10	200
	<u> </u>		LU ILLYUI				
7	MMONIA-NITROGEN CHLORIDE S	ODIU	M TDS-II	on Arseni	<u>.c</u>		
PRES	SERVED SAMPLES PH < 2.0		SAMPLE	STORAGE:	COOLER	ዴ ፐሮፑ ጥ <u>ር</u> 4	0 c
	<u> </u>			broidicb.	COOLER	u 10h 10 4.	<u> </u>
	/E LISTED SAMPLES:	.					TIME
	NOUISHED BY: And Clark	<u> </u>				r.7-4-12 2	
ACCE	EPTED BY:	1	_ REP. C	F CONTRAC	T LAB.	7-6-12 2	2:20
COMM	IENT'S: WO # OOGH						
-							
		1	Page 57 of	59	46	20-07 7	//24/2012

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48683-1

Login Number: 48683

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

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



Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48683-1

Login Number: 48712

List Source: TestAmerica Tampa

List Number: 1

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below ackground	True	
he cooler's custody seal, if present, is intact.	True	
he cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the sample IDs on the containers and ne COC.	True	
amples are received within Holding Time.	True	
ample containers have legible labels.	True	
containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
ppropriate sample containers are used.	True	
ample botties are completely filled.	True	
ample Preservation Verified.	True	
here is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
OA sample vials do not have headspace or bubble is <6mm (1/4") in iameter.	N/A	
lultiphasic samples are not present.	True	
amples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

