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APR 26 2013

Southwest District

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April 24, 2013

Mr. John Morris, P.G.
Department of Environmental Protection
Southwest District Office
13051 Telecom Parkway
Tampa, FL 33637

Re: **Southeast County Landfill
Leachate Treatment Plant (WACS Testsite #19864)
Effluent Analytical Data Report (Semi Annual)
Operation Permit No. 35435-014-SO/01**

Dear Mr. Morris:

In accordance with Specific Condition E.9 part b.1-2 of the Operation Permit No. 35435-014-SO/01 for the Southeast County Landfill (SCLF), the Hillsborough County Public Utilities Department (County) is pleased to provide the semi-annual laboratory analytical data for the effluent generated at the Leachate Treatment Plant.

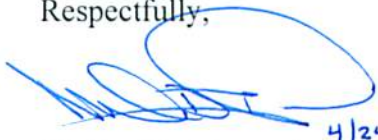
The permit requires the County to sample and analyze the treated effluent after the plant has been down for an extended amount of time (greater than three weeks) and semi annually thereafter. On February 6, 2013, the County's Field Sampling Team collected the required analytical parameters from the dedicated sampling port at the plant. These parameters included the primary drinking water standards (PDWS) and secondary drinking water standards (SDWS), as listed in Chapter 62-550.310 and .320, Florida Administrative Code, and the Priority Pollutants listed in 40 CFR Part 423, Appendix A.

In accordance with permit conditions, the County will continue to collect these samples and analyze for all of the required parameters listed in Specific Condition E.9 part b.2. The next effluent samples shall be collected in August 2013.

Mr. John Morris
April 24, 2013
Page 2

Should you have any questions or comments concerning the information provided in this submittal, please feel free to contact us at (813) 663-3222 or (813) 663-3221, respectively.

Respectfully,



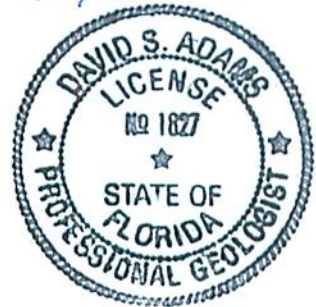
4/24/2013

Michael D. Townsel
Senior Hydrologist
Public Utilities Department



4/24/2013

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



DSA/mdt
Enclosures
G:enviro/self/leachate plant/ltp-effluent-semiannual-2-13.doc

xc: Ron Cope, EPC
Patty Berry, Public Utilities
Larry Ruiz, Public Utilities
Andy Berry, Public Utilities

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

Dept. Of Environmental Protection

APR 26 2013

Southwest District

TestAmerica Job ID: 660-52541-1
Client Project/Site: Leachate Effluent SemiAnnual

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

Attn: Jim Clayton



Authorized for release by:
2/26/2013 1:16:59 PM

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

LINKS

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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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Sample Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-52541-1	Leachate Effluent Semi-Annual	Water	02/06/13 13:10	02/06/13 15:55
660-52541-2	Blank Equipment	Water	02/06/13 12:30	02/06/13 15:55
660-52541-3	Blank Travel	Water	02/06/13 00:00	02/06/13 15:55

Case Narrative

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Job ID: 660-52541-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-52541-1

Comments

No additional comments.

Receipt

The samples were received on 2/6/2013 3:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.2° C and 5.1° C.

GC/MS VOA

Method 524.2: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 265938. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 624: The continuing calibration verification (CCV) for trichlorofluoromethane associated with batch 134218 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method 625: The laboratory control sample for batch 266889 is outside control limits for hexachlorocyclopentadiene and pentachlorophenol. The samples are flagged with J3.

Method 625: Surrogate recovery for the following sample was outside control limits: Eq Blank 52541 (660-52541-2). Re-extraction and/or re-analysis was performed with concurring results. The sample is flagged with J1.

Method 525.2: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 265466 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 525.2: Surrogate recovery for the following sample was outside control limits: Leachate Effluent Semi-Annual (660-52541-1). Evidence of matrix interference is present. Sample was re-analyzed with concurring results. The sample is flagged with J1.

Method 548.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 265634 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

HPLC

Method 531.1: The following sample was diluted due to the nature of the sample matrix and color: Leachate Effluent Semi-Annual (660-52541-1). Elevated reporting limits (RLs) are provided.

Method 549.2: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 265583. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

GC Semi VOA

Method 504.1: Surrogate recovery for the following samples was outside control limits: (660-52541-2 MS), Eq Blank 52541 (660-52541-2). Re-extraction and/or re-analysis was performed with concurring results. The sample is flagged with J1.

Method 504.1: Due to a change in detector response in column 1 all results are reported from the second column. Column 1 is used for confirmation only.

Method 504.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 266023 were outside control limits. The associated

Case Narrative

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Job ID: 660-52541-1 (Continued)

Laboratory: TestAmerica Tampa (Continued)

laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3

Method 508: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 265947 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 508: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: (660-52541-1 MS), (660-52541-1 MSD), Leachate Effluent Semi-Annual (660-52541-1). These results have been reported and qualified with J1.

Method 515.1: The capping continuing calibration verification (CCV) associated with batch 266732 did not meet criteria on both columns. The associated samples were analyzed twice with similar results.

Method 515.1: Surrogate recovery for the following samples were outside control limits: (660-52541-1 MS), (660-52541-1 MSD), Leachate Effluent Semi-Annual (660-52541-1). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported and flagged with J1.

Method 515.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 265564 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 608: The following sample was diluted due to the nature of the sample matrix: Leachate Effluent Semi-Annual (660-52541-1). Elevated reporting limits (RLs) are provided. Batch 134633.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method SM 2540C: The following samples were analyzed outside of analytical holding time due to Lab Error: Batch 134491 Eq Blank 52541 (660-52541-2), Leachate Effluent Semi-Annual (660-52541-1). The sample is consistent with historical results. The samples are flagged with Q.

Method 300.0: The matrix spike duplicate (MSD) recovery for Fluoride in batch 266703 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

Method SM 5540C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 134273 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.

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

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Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.

GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
L	Off-scale high. Actual value is known to be greater than the value given.

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
Q	Sample held beyond the accepted holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☐	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)

TestAmerica Tampa

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Analyte	Result	Qualifier	PQL	MDL	Unit	DII	Fac	D	Method	Prep Type
Benzene	2.8		0.50	0.18	ug/L	1			524.2	Total/NA
Ethylbenzene	0.21	I	0.50	0.12	ug/L	1			524.2	Total/NA
Toluene	1.2		0.50	0.23	ug/L	1			524.2	Total/NA
Xylenes, Total	1.7		0.50	0.27	ug/L	1			524.2	Total/NA
Benzene	3.0		1.0	0.50	ug/L	1			624	Total/NA
Bromoform	79		1.0	0.58	ug/L	1			624	Total/NA
Chlorodibromomethane	55		1.0	0.34	ug/L	1			624	Total/NA
Chloroform	14		1.0	0.90	ug/L	1			624	Total/NA
Dichlorobromomethane	42		1.0	0.35	ug/L	1			624	Total/NA
Toluene	1.4		1.0	0.51	ug/L	1			624	Total/NA
Di (2-ethylhexyl)phthalate	1.3	I	2.0	0.59	ug/L	1			525.2	Total/NA
Aluminum	50	I	200	50	ug/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	4.9	I	10	4.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Barium	34		10	2.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Chromium	7.7	I	10	2.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Cobalt	14		10	2.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Copper	3.3	I	10	2.9	ug/L	1			200.7 Rev 4.4	Total Recoverable
Iron	1000		200	50	ug/L	1			200.7 Rev 4.4	Total Recoverable
Manganese	190		4.0	1.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Nickel	49		8.0	2.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Sodium	1800		10	6.2	mg/L	20			200.7 Rev 4.4	Total Recoverable
Zinc	15	I	20	5.0	ug/L	1			200.7 Rev 4.4	Total Recoverable
Vanadium	2.8	I	10	2.5	ug/L	1			200.7 Rev 4.4	Total Recoverable
Antimony	0.88	I	1.0	0.40	ug/L	1			200.8	Total/NA
Selenium	3.6		2.0	0.58	ug/L	1			200.8	Total/NA
Odor	4.0		1.0	1.0	T.O.N.	1			2150B	Total/NA
Chloride	3200		100	20	mg/L	100			300.0	Total/NA
Fluoride	3.8		0.40	0.040	mg/L	2			300.0	Total/NA
Sulfate	100		4.0	2.0	mg/L	4			300.0	Total/NA
Cyanide	0.015		0.010	0.0025	mg/L	1			335.4	Total/NA
Nitrate Nitrite as N	130		50	10	mg/L	100			353.2	Total/NA
Nitrite as N	0.36	I	0.50	0.10	mg/L	1			353.2	Total/NA
Nitrate as N	130		50	10	mg/L	100			353.2	Total/NA
Phenolics, Total Recoverable	0.082		0.050	0.025	mg/L	1			420.1	Total/NA
Color	250		50	50	PCU	10			SM 2120B	Total/NA
Total Dissolved Solids	6100	Q	250	250	mg/L	1			SM 2540C	Total/NA
pH	8.28				SU	1			SM 4500 H+ B	Total/NA
MBAS	0.36	J3	0.10	0.050	mg/l LAS MW 340	1			SM 5540C	Total/NA
Field pH	8.06				SU	1			Field Sampling	Total/NA
Field Temperature	26.53				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	4.30				mg/L	1			Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual (Continued)

Lab Sample ID: 660-52541-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	4377				umhos/cm	1		Field Sampling	Total/NA

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.81		0.50	0.31	mg/L	1		200.7 Rev 4.4	Total
pH	8.94				SU	1		SM 4500 H+ B	Recoverable Total/NA

Client Sample ID: Blank Travel

Lab Sample ID: 660-52541-3

No Detections

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.8		0.50	0.18	ug/L			02/12/13 15:18	1
Carbon tetrachloride	0.22	U	0.50	0.22	ug/L			02/12/13 15:18	1
cis-1,2-Dichloroethylene	0.37	U	0.50	0.37	ug/L			02/12/13 15:18	1
1,2-Dichloroethane	0.17	U	0.50	0.17	ug/L			02/12/13 15:18	1
1,1-Dichloroethylene	0.32	U	0.50	0.32	ug/L			02/12/13 15:18	1
Dichloromethane	0.36	U	0.50	0.36	ug/L			02/12/13 15:18	1
1,2-Dichloropropane	0.45	U	0.50	0.45	ug/L			02/12/13 15:18	1
Ethylbenzene	0.21	I	0.50	0.12	ug/L			02/12/13 15:18	1
Monochlorobenzene	0.27	U	0.50	0.27	ug/L			02/12/13 15:18	1
o-Dichlorobenzene	0.17	U	0.50	0.17	ug/L			02/12/13 15:18	1
para-Dichlorobenzene	0.18	U	0.50	0.18	ug/L			02/12/13 15:18	1
Styrene	0.28	U	0.50	0.28	ug/L			02/12/13 15:18	1
Tetrachloroethylene	0.30	U	0.50	0.30	ug/L			02/12/13 15:18	1
Toluene	1.2		0.50	0.23	ug/L			02/12/13 15:18	1
trans-1,2-Dichloroethylene	0.24	U	0.50	0.24	ug/L			02/12/13 15:18	1
1,2,4-Trichlorobenzene	0.18	U	0.50	0.18	ug/L			02/12/13 15:18	1
1,1,1-Trichloroethane	0.27	U	0.50	0.27	ug/L			02/12/13 15:18	1
1,1,2-Trichloroethane	0.22	U	0.50	0.22	ug/L			02/12/13 15:18	1
Trichloroethylene	0.37	U	0.50	0.37	ug/L			02/12/13 15:18	1
Vinyl chloride	0.33	U	0.50	0.33	ug/L			02/12/13 15:18	1
Xylenes, Total	1.7		0.50	0.27	ug/L			02/12/13 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130		02/12/13 15:18	1
1,2-Dichlorobenzene-d4	77		70 - 130		02/12/13 15:18	1

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	3.8	U	100	3.8	ug/L			02/07/13 15:31	1
Acrylonitrile	1.2	U	100	1.2	ug/L			02/07/13 15:31	1
Benzene	3.0		1.0	0.50	ug/L			02/07/13 15:31	1
Bromoform	79		1.0	0.58	ug/L			02/07/13 15:31	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			02/07/13 15:31	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			02/07/13 15:31	1
Chlorodibromomethane	55		1.0	0.34	ug/L			02/07/13 15:31	1
Chloroethane	2.5	U	5.0	2.5	ug/L			02/07/13 15:31	1
2-Chloroethyl vinyl ether	0.95	U	5.0	0.95	ug/L			02/07/13 15:31	1
Chloroform	14		1.0	0.90	ug/L			02/07/13 15:31	1
Dichlorobromomethane	42		1.0	0.35	ug/L			02/07/13 15:31	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			02/07/13 15:31	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			02/07/13 15:31	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			02/07/13 15:31	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			02/07/13 15:31	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 15:31	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 15:31	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			02/07/13 15:31	1
Bromomethane	2.5	U	5.0	2.5	ug/L			02/07/13 15:31	1
Chloromethane	1.0	U	4.0	1.0	ug/L			02/07/13 15:31	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			02/07/13 15:31	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			02/07/13 15:31	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.50	U	1.0	0.50	ug/L	-		02/07/13 15:31	1
Toluene	1.4		1.0	0.51	ug/L			02/07/13 15:31	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			02/07/13 15:31	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			02/07/13 15:31	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			02/07/13 15:31	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			02/07/13 15:31	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 15:31	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			02/07/13 15:31	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			02/07/13 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130					02/07/13 15:31	1
Dibromofluoromethane	103		70 - 130					02/07/13 15:31	1
Toluene-d8 (Surr)	99		70 - 130					02/07/13 15:31	1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	0.033	U	0.20	0.033	ug/L	-	02/07/13 13:19	02/09/13 02:14	1
Atrazine	0.022	U	0.20	0.022	ug/L		02/07/13 13:19	02/09/13 02:14	1
Benzo[a]pyrene	0.029	U	0.20	0.029	ug/L		02/07/13 13:19	02/09/13 02:14	1
DI (2-ethylhexyl)phthalate	1.3	I	2.0	0.59	ug/L		02/07/13 13:19	02/09/13 02:14	1
Di(2-ethylhexyl)adipate	0.59	U	1.5	0.59	ug/L		02/07/13 13:19	02/09/13 02:14	1
Hexachlorobenzene	0.041	U	0.20	0.041	ug/L		02/07/13 13:19	02/09/13 02:14	1
Hexachlorocyclopentadiene	0.042	U	2.0	0.042	ug/L		02/07/13 13:19	02/09/13 02:14	1
Simazine	0.035	U	0.50	0.035	ug/L		02/07/13 13:19	02/09/13 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	113		70 - 130				02/07/13 13:19	02/09/13 02:14	1

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	6.3	U	10	6.3	ug/L	-	02/08/13 12:53	02/11/13 21:05	1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.73	U	9.7	0.73	ug/L	-	02/11/13 15:02	02/21/13 04:45	1
Acenaphthylene	0.78	U	9.7	0.78	ug/L		02/11/13 15:02	02/21/13 04:45	1
Anthracene	0.71	U	9.7	0.71	ug/L		02/11/13 15:02	02/21/13 04:45	1
Benzidine	41	U	78	41	ug/L		02/11/13 15:02	02/21/13 04:45	1
Benzo[a]anthracene	0.91	U	9.7	0.91	ug/L		02/11/13 15:02	02/21/13 04:45	1
Benzo[b]fluoranthene	2.4	U	9.7	2.4	ug/L		02/11/13 15:02	02/21/13 04:45	1
Benzo[k]fluoranthene	0.87	U	9.7	0.87	ug/L		02/11/13 15:02	02/21/13 04:45	1
Benzo[g,h,i]perylene	0.86	U	9.7	0.86	ug/L		02/11/13 15:02	02/21/13 04:45	1
Benzo[a]pyrene	0.72	U	9.7	0.72	ug/L		02/11/13 15:02	02/21/13 04:45	1
Bis(2-chloroethoxy)methane	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
Bis(2-chloroethyl)ether	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
Bis(2-ethylhexyl) phthalate	1.6	U	9.7	1.6	ug/L		02/11/13 15:02	02/21/13 04:45	1
4-Bromophenyl phenyl ether	0.78	U	9.7	0.78	ug/L		02/11/13 15:02	02/21/13 04:45	1
Butyl benzyl phthalate	1.2	U	9.7	1.2	ug/L		02/11/13 15:02	02/21/13 04:45	1
4-Chloro-3-methylphenol	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
2-Chloronaphthalene	0.76	U	9.7	0.76	ug/L		02/11/13 15:02	02/21/13 04:45	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.87	U	9.7	0.87	ug/L		02/11/13 15:02	02/21/13 04:45	1
4-Chlorophenyl phenyl ether	0.79	U	9.7	0.79	ug/L		02/11/13 15:02	02/21/13 04:45	1
Chrysene	0.51	U	9.7	0.51	ug/L		02/11/13 15:02	02/21/13 04:45	1
Dibenz(a,h)anthracene	0.74	U	9.7	0.74	ug/L		02/11/13 15:02	02/21/13 04:45	1
Di-n-butyl phthalate	0.86	U	9.7	0.86	ug/L		02/11/13 15:02	02/21/13 04:45	1
1,2-Dichlorobenzene	0.54	U	9.7	0.54	ug/L		02/11/13 15:02	02/21/13 04:45	1
1,3-Dichlorobenzene	0.64	U	9.7	0.64	ug/L		02/11/13 15:02	02/21/13 04:45	1
1,4-Dichlorobenzene	0.56	U	9.7	0.56	ug/L		02/11/13 15:02	02/21/13 04:45	1
3,3'-Dichlorobenzidine	29	U	58	29	ug/L		02/11/13 15:02	02/21/13 04:45	1
2,4-Dichlorophenol	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
Diethyl phthalate	0.84	U	9.7	0.84	ug/L		02/11/13 15:02	02/21/13 04:45	1
2,4-Dimethylphenol	3.8	U	9.7	3.8	ug/L		02/11/13 15:02	02/21/13 04:45	1
Dimethyl phthalate	0.94	U	9.7	0.94	ug/L		02/11/13 15:02	02/21/13 04:45	1
4,6-Dinitro-2-methylphenol	4.9	U	49	4.9	ug/L		02/11/13 15:02	02/21/13 04:45	1
2,4-Dinitrophenol	9.7	U	49	9.7	ug/L		02/11/13 15:02	02/21/13 04:45	1
2,4-Dinitrotoluene	1.2	U	9.7	1.2	ug/L		02/11/13 15:02	02/21/13 04:45	1
2,6-Dinitrotoluene	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
Di-n-octyl phthalate	1.3	U	9.7	1.3	ug/L		02/11/13 15:02	02/21/13 04:45	1
1,2-Diphenylhydrazine	0.84	U	9.7	0.84	ug/L		02/11/13 15:02	02/21/13 04:45	1
Fluoranthene	0.69	U	9.7	0.69	ug/L		02/11/13 15:02	02/21/13 04:45	1
Fluorene	0.90	U	9.7	0.90	ug/L		02/11/13 15:02	02/21/13 04:45	1
Hexachlorobenzene	0.79	U	9.7	0.79	ug/L		02/11/13 15:02	02/21/13 04:45	1
Hexachlorobutadiene	0.60	U	9.7	0.60	ug/L		02/11/13 15:02	02/21/13 04:45	1
Hexachlorocyclopentadiene	9.7	U J3	19	9.7	ug/L		02/11/13 15:02	02/21/13 04:45	1
Hexachloroethane	0.79	U	9.7	0.79	ug/L		02/11/13 15:02	02/21/13 04:45	1
Indeno[1,2,3-cd]pyrene	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
Isophorone	0.87	U	9.7	0.87	ug/L		02/11/13 15:02	02/21/13 04:45	1
Naphthalene	0.68	U	9.7	0.68	ug/L		02/11/13 15:02	02/21/13 04:45	1
Nitrobenzene	0.56	U	9.7	0.56	ug/L		02/11/13 15:02	02/21/13 04:45	1
2-Nitrophenol	0.72	U	9.7	0.72	ug/L		02/11/13 15:02	02/21/13 04:45	1
4-Nitrophenol	9.7	U	49	9.7	ug/L		02/11/13 15:02	02/21/13 04:45	1
N-Nitrosodimethylamine	9.7	U	19	9.7	ug/L		02/11/13 15:02	02/21/13 04:45	1
N-Nitrosodiphenylamine	0.88	U	9.7	0.88	ug/L		02/11/13 15:02	02/21/13 04:45	1
N-Nitrosodi-n-propylamine	0.72	U	9.7	0.72	ug/L		02/11/13 15:02	02/21/13 04:45	1
Pentachlorophenol	1.7	U J3	49	1.7	ug/L		02/11/13 15:02	02/21/13 04:45	1
Phenanthrene	0.79	U	9.7	0.79	ug/L		02/11/13 15:02	02/21/13 04:45	1
Phenol	1.1	U	9.7	1.1	ug/L		02/11/13 15:02	02/21/13 04:45	1
Pyrene	0.62	U	9.7	0.62	ug/L		02/11/13 15:02	02/21/13 04:45	1
1,2,4-Trichlorobenzene	0.54	U	9.7	0.54	ug/L		02/11/13 15:02	02/21/13 04:45	1
2,4,6-Trichlorophenol	0.80	U	9.7	0.80	ug/L		02/11/13 15:02	02/21/13 04:45	1
bis (2-chloroisopropyl) ether	0.83	U	9.7	0.83	ug/L		02/11/13 15:02	02/21/13 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		38 - 121	02/11/13 15:02	02/21/13 04:45	1
2-Fluorophenol	67		35 - 110	02/11/13 15:02	02/21/13 04:45	1
Nitrobenzene-d5	74		44 - 119	02/11/13 15:02	02/21/13 04:45	1
Terphenyl-d14	22		10 - 165	02/11/13 15:02	02/21/13 04:45	1
2,4,6-Tribromophenol	99		34 - 132	02/11/13 15:02	02/21/13 04:45	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0055	U	0.022	0.0055	ug/L		02/12/13 17:07	02/13/13 01:36	1
Ethylene Dibromide	0.0024	U J3	0.022	0.0024	ug/L		02/12/13 17:07	02/13/13 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	96		70 - 130				02/12/13 17:07	02/13/13 01:36	1

Method: 508 - Chlorinated Pesticides & PCBs (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.12	U	0.24	0.12	ug/L		02/12/13 11:05	02/14/13 08:03	1
Endrin	0.0022	U	0.024	0.0022	ug/L		02/12/13 11:05	02/14/13 08:03	1
gamma-BHC (Lindane)	0.0023	U	0.024	0.0023	ug/L		02/12/13 11:05	02/14/13 08:03	1
Heptachlor	0.0062	U	0.024	0.0062	ug/L		02/12/13 11:05	02/14/13 08:03	1
Heptachlor epoxide	0.0017	U	0.024	0.0017	ug/L		02/12/13 11:05	02/14/13 08:03	1
Methoxychlor	0.0076	U	0.024	0.0076	ug/L		02/12/13 11:05	02/14/13 08:03	1
Polychlorinated biphenyls, Total	0.045	U	0.49	0.045	ug/L		02/12/13 11:05	02/14/13 08:03	1
Toxaphene	0.057	U	2.4	0.057	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1016	0.069	U J3	0.49	0.069	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1221	0.12	U	0.49	0.12	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1232	0.071	U	0.49	0.071	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1242	0.064	U	0.49	0.064	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1248	0.045	U	0.49	0.045	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1254	0.097	U	0.49	0.097	ug/L		02/12/13 11:05	02/14/13 08:03	1
PCB-1260	0.083	U	0.49	0.083	ug/L		02/12/13 11:05	02/14/13 08:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64	J1	70 - 130				02/12/13 11:05	02/14/13 08:03	1
Tetrachloro-m-xylene	91		70 - 130				02/12/13 11:05	02/14/13 08:03	1

Method: 515.1 - Herbicides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.037	U	0.50	0.037	ug/L		02/08/13 07:54	02/19/13 02:39	1
Dalapon	1.0	U	10	1.0	ug/L		02/08/13 07:54	02/19/13 02:39	1
Dinoseb	0.15	U J3	3.0	0.15	ug/L		02/08/13 07:54	02/19/13 02:39	1
Pentachlorophenol	0.038	U	0.20	0.038	ug/L		02/08/13 07:54	02/19/13 02:39	1
Picloram	0.077	U J3	0.50	0.077	ug/L		02/08/13 07:54	02/19/13 02:39	1
Silvex (2,4,5-TP)	0.060	U	0.50	0.060	ug/L		02/08/13 07:54	02/19/13 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	531	J1	70 - 130				02/08/13 07:54	02/19/13 02:39	1

Method: 608 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.016	U	0.038	0.016	ug/L		02/11/13 09:28	02/13/13 16:34	4
4,4'-DDE	0.021	U	0.038	0.021	ug/L		02/11/13 09:28	02/13/13 16:34	4
4,4'-DDT	0.012	U	0.038	0.012	ug/L		02/11/13 09:28	02/13/13 16:34	4
Aldrin	0.0069	U	0.038	0.0069	ug/L		02/11/13 09:28	02/13/13 16:34	4
alpha-BHC	0.011	U	0.038	0.011	ug/L		02/11/13 09:28	02/13/13 16:34	4
beta-BHC	0.010	U	0.038	0.010	ug/L		02/11/13 09:28	02/13/13 16:34	4
Chlordane (technical)	0.22	U	1.9	0.22	ug/L		02/11/13 09:28	02/13/13 16:34	4
delta-BHC	0.011	U	0.038	0.011	ug/L		02/11/13 09:28	02/13/13 16:34	4
Dieldrin	0.0054	U	0.038	0.0054	ug/L		02/11/13 09:28	02/13/13 16:34	4

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Method: 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.013	U	0.038	0.013	ug/L		02/11/13 09:28	02/13/13 16:34	4
Endosulfan II	0.013	U	0.038	0.013	ug/L		02/11/13 09:28	02/13/13 16:34	4
Endosulfan sulfate	0.012	U	0.038	0.012	ug/L		02/11/13 09:28	02/13/13 16:34	4
Endrin	0.012	U	0.038	0.012	ug/L		02/11/13 09:28	02/13/13 16:34	4
Endrin aldehyde	0.012	U	0.038	0.012	ug/L		02/11/13 09:28	02/13/13 16:34	4
gamma-BHC (Lindane)	0.010	U	0.038	0.010	ug/L		02/11/13 09:28	02/13/13 16:34	4
Heptachlor	0.012	U	0.038	0.012	ug/L		02/11/13 09:28	02/13/13 16:34	4
Heptachlor epoxide	0.012	U	0.038	0.012	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1016	1.0	U	1.9	1.0	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1221	0.58	U	1.9	0.58	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1232	1.5	U	1.9	1.5	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1242	0.30	U	1.9	0.30	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1248	0.27	U	1.9	0.27	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1254	0.46	U	1.9	0.46	ug/L		02/11/13 09:28	02/13/13 16:34	4
PCB-1260	0.38	U	1.9	0.38	ug/L		02/11/13 09:28	02/13/13 16:34	4
Toxaphene	2.8	U	12	2.8	ug/L		02/11/13 09:28	02/13/13 16:34	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	41		30 - 150	02/11/13 09:28	02/13/13 16:34	4
Tetrachloro-m-xylene	79		30 - 150	02/11/13 09:28	02/13/13 16:34	4

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxamyl	3.5	U	25	3.5	ug/L			02/12/13 11:11	10
Carbofuran	4.3	U	25	4.3	ug/L			02/12/13 11:11	10

Method: 547 - Glyphosate (DAI HPLC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Glyphosate	5.0	U	25	5.0	ug/L			02/07/13 18:35	1

Method: 549.2 - Diquat and Paraquat (HPLC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	0.40	U	2.0	0.40	ug/L		02/08/13 10:02	02/08/13 18:12	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	I	200	50	ug/L		02/13/13 10:16	02/13/13 19:36	1
Arsenic	4.9	I	10	4.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Barium	34		10	2.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Beryllium	0.50	U	2.0	0.50	ug/L		02/13/13 10:16	02/13/13 19:36	1
Cadmium	1.0	U	4.0	1.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Chromium	7.7	I	10	2.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Cobalt	14		10	2.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Copper	3.3	I	10	2.9	ug/L		02/13/13 10:16	02/13/13 19:36	1
Iron	1000		200	50	ug/L		02/13/13 10:16	02/13/13 19:36	1
Manganese	190		4.0	1.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Nickel	49		8.0	2.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Silver	1.0	U	4.0	1.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Sodium	1800		10	6.2	mg/L		02/13/13 10:16	02/14/13 07:15	20
Zinc	15	I	20	5.0	ug/L		02/13/13 10:16	02/13/13 19:36	1
Vanadium	2.8	I	10	2.5	ug/L		02/13/13 10:16	02/13/13 19:36	1

TestAmerica Tampa

Client Sample Results

Client: Hillshorough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.88	I	1.0	0.40	ug/L		02/14/13 16:21	02/15/13 18:54	1
Lead	0.060	U	0.30	0.060	ug/L		02/14/13 16:21	02/20/13 20:50	1
Thallium	0.10	U	0.20	0.10	ug/L		02/14/13 16:21	02/20/13 20:50	1
Selenium	3.6		2.0	0.58	ug/L		02/14/13 16:21	02/20/13 20:50	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072	U	0.20	0.072	ug/L		02/12/13 10:58	02/12/13 13:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Odor	4.0		1.0	1.0	T.O.N.			02/06/13 18:20	1
Chloride	3200		100	20	mg/L			02/18/13 15:59	100
Fluoride	3.8		0.40	0.040	mg/L			02/18/13 15:47	2
Sulfate	100		4.0	2.0	mg/L			02/19/13 11:55	4
Cyanide	0.015		0.010	0.0025	mg/L		02/08/13 10:00	02/08/13 14:39	1
Nitrate Nitrite as N	130		50	10	mg/L			02/08/13 06:06	100
Nitrite as N	0.36	I	0.50	0.10	mg/L			02/08/13 06:06	1
Nitrate as N	130		50	10	mg/L			02/08/13 06:06	100
Phenolics, Total Recoverable	0.082		0.050	0.025	mg/L		02/15/13 10:45	02/16/13 15:02	1
Color	250		50	50	PCU			02/08/13 06:50	10
Total Dissolved Solids	6100	Q	250	250	mg/L			02/14/13 15:16	1
pH	8.28				SU			02/07/13 12:00	1
MBAS	0.36	J3	0.10	0.050	mg/l LAS MW 340			02/08/13 10:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.06				SU			02/06/13 13:10	1
Field Temperature	26.53				Degrees C			02/06/13 13:10	1
Oxygen, Dissolved	4.30				mg/L			02/06/13 13:10	1
Specific Conductance	4377				umhos/cm			02/06/13 13:10	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.18	U	0.50	0.18	ug/L			02/12/13 14:24	1
Carbon tetrachloride	0.22	U	0.50	0.22	ug/L			02/12/13 14:24	1
cis-1,2-Dichloroethylene	0.37	U	0.50	0.37	ug/L			02/12/13 14:24	1
1,2-Dichloroethane	0.17	U	0.50	0.17	ug/L			02/12/13 14:24	1
1,1-Dichloroethylene	0.32	U	0.50	0.32	ug/L			02/12/13 14:24	1
Dichloromethane	0.36	U	0.50	0.36	ug/L			02/12/13 14:24	1
1,2-Dichloropropane	0.45	U	0.50	0.45	ug/L			02/12/13 14:24	1
Ethylbenzene	0.12	U	0.50	0.12	ug/L			02/12/13 14:24	1
Monochlorobenzene	0.27	U	0.50	0.27	ug/L			02/12/13 14:24	1
o-Dichlorobenzene	0.17	U	0.50	0.17	ug/L			02/12/13 14:24	1
para-Dichlorobenzene	0.18	U	0.50	0.18	ug/L			02/12/13 14:24	1
Styrene	0.28	U	0.50	0.28	ug/L			02/12/13 14:24	1
Tetrachloroethylene	0.30	U	0.50	0.30	ug/L			02/12/13 14:24	1
Toluene	0.23	U	0.50	0.23	ug/L			02/12/13 14:24	1
trans-1,2-Dichloroethylene	0.24	U	0.50	0.24	ug/L			02/12/13 14:24	1
1,2,4-Trichlorobenzene	0.18	U	0.50	0.18	ug/L			02/12/13 14:24	1
1,1,1-Trichloroethane	0.27	U	0.50	0.27	ug/L			02/12/13 14:24	1
1,1,2-Trichloroethane	0.22	U	0.50	0.22	ug/L			02/12/13 14:24	1
Trichloroethylene	0.37	U	0.50	0.37	ug/L			02/12/13 14:24	1
Vinyl chloride	0.33	U	0.50	0.33	ug/L			02/12/13 14:24	1
Xylenes, Total	0.27	U	0.50	0.27	ug/L			02/12/13 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		70 - 130		02/12/13 14:24	1
1,2-Dichlorobenzene-d4	77		70 - 130		02/12/13 14:24	1

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	3.8	U	100	3.8	ug/L			02/07/13 14:46	1
Acrylonitrile	1.2	U	100	1.2	ug/L			02/07/13 14:46	1
Benzene	0.50	U	1.0	0.50	ug/L			02/07/13 14:46	1
Bromoform	0.58	U	1.0	0.58	ug/L			02/07/13 14:46	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			02/07/13 14:46	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			02/07/13 14:46	1
Chlorodibromomethane	0.34	U	1.0	0.34	ug/L			02/07/13 14:46	1
Chloroethane	2.5	U	5.0	2.5	ug/L			02/07/13 14:46	1
2-Chloroethyl vinyl ether	0.95	U	5.0	0.95	ug/L			02/07/13 14:46	1
Chloroform	0.90	U	1.0	0.90	ug/L			02/07/13 14:46	1
Dichlorobromomethane	0.35	U	1.0	0.35	ug/L			02/07/13 14:46	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			02/07/13 14:46	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			02/07/13 14:46	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			02/07/13 14:46	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			02/07/13 14:46	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 14:46	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 14:46	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			02/07/13 14:46	1
Bromomethane	2.5	U	5.0	2.5	ug/L			02/07/13 14:46	1
Chloromethane	1.0	U	4.0	1.0	ug/L			02/07/13 14:46	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			02/07/13 14:46	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			02/07/13 14:46	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 14:46	1
Toluene	0.51	U	1.0	0.51	ug/L			02/07/13 14:46	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			02/07/13 14:46	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			02/07/13 14:46	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			02/07/13 14:46	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			02/07/13 14:46	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 14:46	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			02/07/13 14:46	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			02/07/13 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		02/07/13 14:46	1
Dibromofluoromethane	101		70 - 130		02/07/13 14:46	1
Toluene-d8 (Surr)	99		70 - 130		02/07/13 14:46	1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	0.034	U	0.21	0.034	ug/L		02/07/13 13:19	02/09/13 02:41	1
Atrazine	0.023	U	0.21	0.023	ug/L		02/07/13 13:19	02/09/13 02:41	1
Benzo[a]pyrene	0.030	U	0.21	0.030	ug/L		02/07/13 13:19	02/09/13 02:41	1
Di (2-ethylhexyl)phthalate	0.62	U	2.1	0.62	ug/L		02/07/13 13:19	02/09/13 02:41	1
Di(2-ethylhexyl)adipate	0.62	U	1.6	0.62	ug/L		02/07/13 13:19	02/09/13 02:41	1
Hexachlorobenzene	0.042	U	0.21	0.042	ug/L		02/07/13 13:19	02/09/13 02:41	1
Hexachlorocyclopentadiene	0.044	U	2.1	0.044	ug/L		02/07/13 13:19	02/09/13 02:41	1
Simazine	0.036	U	0.52	0.036	ug/L		02/07/13 13:19	02/09/13 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	106		70 - 130	02/07/13 13:19	02/09/13 02:41	1

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	6.3	U	10	6.3	ug/L		02/08/13 12:53	02/11/13 21:18	1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.65	U	8.6	0.65	ug/L		02/11/13 15:02	02/21/13 05:13	1
Acenaphthylene	0.69	U	8.6	0.69	ug/L		02/11/13 15:02	02/21/13 05:13	1
Anthracene	0.63	U	8.6	0.63	ug/L		02/11/13 15:02	02/21/13 05:13	1
Benzidine	36	U	69	36	ug/L		02/11/13 15:02	02/21/13 05:13	1
Benzo[a]anthracene	0.81	U	8.6	0.81	ug/L		02/11/13 15:02	02/21/13 05:13	1
Benzo[b]fluoranthene	2.2	U	8.6	2.2	ug/L		02/11/13 15:02	02/21/13 05:13	1
Benzo[k]fluoranthene	0.78	U	8.6	0.78	ug/L		02/11/13 15:02	02/21/13 05:13	1
Benzo[g,h,i]perylene	0.77	U	8.6	0.77	ug/L		02/11/13 15:02	02/21/13 05:13	1
Benzo[a]pyrene	0.64	U	8.6	0.64	ug/L		02/11/13 15:02	02/21/13 05:13	1
Bis(2-chloroethoxy)methane	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
Bis(2-chloroethyl)ether	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
Bis(2-ethylhexyl) phthalate	1.4	U	8.6	1.4	ug/L		02/11/13 15:02	02/21/13 05:13	1
4-Bromophenyl phenyl ether	0.69	U	8.6	0.69	ug/L		02/11/13 15:02	02/21/13 05:13	1
Butyl benzyl phthalate	1.0	U	8.6	1.0	ug/L		02/11/13 15:02	02/21/13 05:13	1
4-Chloro-3-methylphenol	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
2-Chloronaphthalene	0.67	U	8.6	0.67	ug/L		02/11/13 15:02	02/21/13 05:13	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.78	U	8.6	0.78	ug/L		02/11/13 15:02	02/21/13 05:13	1
4-Chlorophenyl phenyl ether	0.70	U	8.6	0.70	ug/L		02/11/13 15:02	02/21/13 05:13	1
Chrysene	0.45	U	8.6	0.45	ug/L		02/11/13 15:02	02/21/13 05:13	1
Dibenz(a,h)anthracene	0.66	U	8.6	0.66	ug/L		02/11/13 15:02	02/21/13 05:13	1
Di-n-butyl phthalate	0.76	U	8.6	0.76	ug/L		02/11/13 15:02	02/21/13 05:13	1
1,2-Dichlorobenzene	0.48	U	8.6	0.48	ug/L		02/11/13 15:02	02/21/13 05:13	1
1,3-Dichlorobenzene	0.57	U	8.6	0.57	ug/L		02/11/13 15:02	02/21/13 05:13	1
1,4-Dichlorobenzene	0.50	U	8.6	0.50	ug/L		02/11/13 15:02	02/21/13 05:13	1
3,3'-Dichlorobenzidine	26	U	52	26	ug/L		02/11/13 15:02	02/21/13 05:13	1
2,4-Dichlorophenol	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
Diethyl phthalate	0.74	U	8.6	0.74	ug/L		02/11/13 15:02	02/21/13 05:13	1
2,4-Dimethylphenol	3.4	U	8.6	3.4	ug/L		02/11/13 15:02	02/21/13 05:13	1
Dimethyl phthalate	0.84	U	8.6	0.84	ug/L		02/11/13 15:02	02/21/13 05:13	1
4,6-Dinitro-2-methylphenol	4.3	U	43	4.3	ug/L		02/11/13 15:02	02/21/13 05:13	1
2,4-Dinitrophenol	8.6	U	43	8.6	ug/L		02/11/13 15:02	02/21/13 05:13	1
2,4-Dinitrotoluene	1.0	U	8.6	1.0	ug/L		02/11/13 15:02	02/21/13 05:13	1
2,6-Dinitrotoluene	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
Di-n-octyl phthalate	1.1	U	8.6	1.1	ug/L		02/11/13 15:02	02/21/13 05:13	1
1,2-Diphenylhydrazine	0.74	U	8.6	0.74	ug/L		02/11/13 15:02	02/21/13 05:13	1
Fluoranthene	0.61	U	8.6	0.61	ug/L		02/11/13 15:02	02/21/13 05:13	1
Fluorene	0.80	U	8.6	0.80	ug/L		02/11/13 15:02	02/21/13 05:13	1
Hexachlorobenzene	0.70	U	8.6	0.70	ug/L		02/11/13 15:02	02/21/13 05:13	1
Hexachlorobutadiene	0.53	U	8.6	0.53	ug/L		02/11/13 15:02	02/21/13 05:13	1
Hexachlorocyclopentadiene	8.6	U J3	17	8.6	ug/L		02/11/13 15:02	02/21/13 05:13	1
Hexachloroethane	0.70	U	8.6	0.70	ug/L		02/11/13 15:02	02/21/13 05:13	1
Indeno[1,2,3-cd]pyrene	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
Isophrone	0.78	U	8.6	0.78	ug/L		02/11/13 15:02	02/21/13 05:13	1
Naphthalene	0.60	U	8.6	0.60	ug/L		02/11/13 15:02	02/21/13 05:13	1
Nitrobenzene	0.50	U	8.6	0.50	ug/L		02/11/13 15:02	02/21/13 05:13	1
2-Nitrophenol	0.64	U	8.6	0.64	ug/L		02/11/13 15:02	02/21/13 05:13	1
4-Nitrophenol	8.6	U	43	8.6	ug/L		02/11/13 15:02	02/21/13 05:13	1
N-Nitrosodimethylamine	8.6	U	17	8.6	ug/L		02/11/13 15:02	02/21/13 05:13	1
N-Nitrosodiphenylamine	0.78	U	8.6	0.78	ug/L		02/11/13 15:02	02/21/13 05:13	1
N-Nitrosodi-n-propylamine	0.64	U	8.6	0.64	ug/L		02/11/13 15:02	02/21/13 05:13	1
Pentachlorophenol	1.6	U J3	43	1.6	ug/L		02/11/13 15:02	02/21/13 05:13	1
Phenanthrene	0.70	U	8.6	0.70	ug/L		02/11/13 15:02	02/21/13 05:13	1
Phenol	0.95	U	8.6	0.95	ug/L		02/11/13 15:02	02/21/13 05:13	1
Pyrene	0.55	U	8.6	0.55	ug/L		02/11/13 15:02	02/21/13 05:13	1
1,2,4-Trichlorobenzene	0.48	U	8.6	0.48	ug/L		02/11/13 15:02	02/21/13 05:13	1
2,4,6-Trichlorophenol	0.71	U	8.6	0.71	ug/L		02/11/13 15:02	02/21/13 05:13	1
bis (2-chloroisopropyl) ether	0.73	U	8.6	0.73	ug/L		02/11/13 15:02	02/21/13 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	29	J1	38 - 121	02/11/13 15:02	02/21/13 05:13	1
2-Fluorophenol	26	J1	35 - 110	02/11/13 15:02	02/21/13 05:13	1
Nitrobenzene-d5	30	J1	44 - 119	02/11/13 15:02	02/21/13 05:13	1
Terphenyl-d14	38		10 - 165	02/11/13 15:02	02/21/13 05:13	1
2,4,6-Tribromophenol	26	J1	34 - 132	02/11/13 15:02	02/21/13 05:13	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0053	U	0.021	0.0053	ug/L		02/12/13 17:07	02/13/13 01:46	1
Ethylene Dibromide	0.0023	U	0.021	0.0023	ug/L		02/12/13 17:07	02/13/13 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	63	J1	70 - 130	02/12/13 17:07	02/13/13 01:46	1

Method: 508 - Chlorinated Pesticides & PCBs (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.13	U	0.27	0.13	ug/L		02/12/13 11:05	02/14/13 08:50	1
Endrin	0.0024	U	0.027	0.0024	ug/L		02/12/13 11:05	02/14/13 08:50	1
gamma-BHC (Lindane)	0.0026	U	0.027	0.0026	ug/L		02/12/13 11:05	02/14/13 08:50	1
Heptachlor	0.0068	U	0.027	0.0068	ug/L		02/12/13 11:05	02/14/13 08:50	1
Heptachlor epoxide	0.0018	U	0.027	0.0018	ug/L		02/12/13 11:05	02/14/13 08:50	1
Methoxychlor	0.0084	U	0.027	0.0084	ug/L		02/12/13 11:05	02/14/13 08:50	1
Polychlorinated biphenyls, Total	0.049	U	0.54	0.049	ug/L		02/12/13 11:05	02/14/13 08:50	1
Toxaphene	0.062	U	2.7	0.062	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1016	0.076	U	0.54	0.076	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1221	0.13	U	0.54	0.13	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1232	0.078	U	0.54	0.078	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1242	0.070	U	0.54	0.070	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1248	0.049	U	0.54	0.049	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1254	0.11	U	0.54	0.11	ug/L		02/12/13 11:05	02/14/13 08:50	1
PCB-1260	0.091	U	0.54	0.091	ug/L		02/12/13 11:05	02/14/13 08:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		70 - 130	02/12/13 11:05	02/14/13 08:50	1
Tetrachloro-m-xylene	83		70 - 130	02/12/13 11:05	02/14/13 08:50	1

Method: 515.1 - Herbicides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.038	U	0.52	0.038	ug/L		02/08/13 07:54	02/15/13 01:38	1
Dalapon	1.0	U	10	1.0	ug/L		02/08/13 07:54	02/15/13 01:38	1
Dinoseb	0.16	U	3.1	0.16	ug/L		02/08/13 07:54	02/15/13 01:38	1
Pentachlorophenol	0.039	U	0.21	0.039	ug/L		02/08/13 07:54	02/15/13 01:38	1
Picloram	0.080	U	0.52	0.080	ug/L		02/08/13 07:54	02/15/13 01:38	1
Silvex (2,4,5-TP)	0.062	U	0.52	0.062	ug/L		02/08/13 07:54	02/15/13 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	116		70 - 130	02/08/13 07:54	02/15/13 01:38	1

Method: 608 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0041	U	0.010	0.0041	ug/L		02/11/13 09:28	02/13/13 15:50	1
4,4'-DDE	0.0055	U	0.010	0.0055	ug/L		02/11/13 09:28	02/13/13 15:50	1
4,4'-DDT	0.0032	U	0.010	0.0032	ug/L		02/11/13 09:28	02/13/13 15:50	1
Aldrin	0.0018	U	0.010	0.0018	ug/L		02/11/13 09:28	02/13/13 15:50	1
alpha-BHC	0.0028	U	0.010	0.0028	ug/L		02/11/13 09:28	02/13/13 15:50	1
beta-BHC	0.0027	U	0.010	0.0027	ug/L		02/11/13 09:28	02/13/13 15:50	1
Chlordane (technical)	0.057	U	0.50	0.057	ug/L		02/11/13 09:28	02/13/13 15:50	1
delta-BHC	0.0028	U	0.010	0.0028	ug/L		02/11/13 09:28	02/13/13 15:50	1
Dieldrin	0.0014	U	0.010	0.0014	ug/L		02/11/13 09:28	02/13/13 15:50	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Method: 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0034	U	0.010	0.0034	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Endosulfan II	0.0033	U	0.010	0.0033	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Endosulfan sulfate	0.0030	U	0.010	0.0030	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Endrin	0.0031	U	0.010	0.0031	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Endrin aldehyde	0.0032	U	0.010	0.0032	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
gamma-BHC (Lindane)	0.0026	U	0.010	0.0026	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Heptachlor	0.0031	U	0.010	0.0031	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Heptachlor epoxide	0.0031	U	0.010	0.0031	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1016	0.26	U	0.50	0.26	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1221	0.15	U	0.50	0.15	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1232	0.38	U	0.50	0.38	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1242	0.077	U	0.50	0.077	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1248	0.070	U	0.50	0.070	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1254	0.12	U	0.50	0.12	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
PCB-1260	0.10	U	0.50	0.10	ug/L	-	02/11/13 09:28	02/13/13 15:50	1
Toxaphene	0.72	U	3.0	0.72	ug/L	-	02/11/13 09:28	02/13/13 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	34		30 - 150	02/11/13 09:28	02/13/13 15:50	1
Tetrachloro-m-xylene	35		30 - 150	02/11/13 09:28	02/13/13 15:50	1

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxamyl	0.35	U	2.5	0.35	ug/L	-		02/12/13 11:56	1
Carbofuran	0.43	U	2.5	0.43	ug/L	-		02/12/13 11:56	1

Method: 547 - Glyphosate (DAI HPLC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Glyphosate	5.0	U	25	5.0	ug/L	-		02/07/13 18:55	1

Method: 549.2 - Diquat and Paraquat (HPLC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	0.40	U	2.0	0.40	ug/L	-	02/08/13 10:02	02/08/13 18:22	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	200	50	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Arsenic	4.0	U	10	4.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Barium	2.0	U	10	2.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Beryllium	0.50	U	2.0	0.50	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Cadmium	1.0	U	4.0	1.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Chromium	2.0	U	10	2.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Cobalt	2.0	U	10	2.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Copper	2.9	U	10	2.9	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Iron	50	U	200	50	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Manganese	1.0	U	4.0	1.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Nickel	2.0	U	8.0	2.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Silver	1.0	U	4.0	1.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Sodium	0.81		0.50	0.31	mg/L	-	02/13/13 10:16	02/14/13 07:12	1
Zinc	5.0	U	20	5.0	ug/L	-	02/13/13 10:16	02/13/13 19:39	1
Vanadium	2.5	U	10	2.5	ug/L	-	02/13/13 10:16	02/13/13 19:39	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		02/14/13 16:21	02/15/13 19:01	1
Lead	0.060	U	0.30	0.060	ug/L		02/14/13 16:21	02/20/13 21:01	1
Thallium	0.10	U	0.20	0.10	ug/L		02/14/13 16:21	02/20/13 21:01	1
Selenium	0.58	U	2.0	0.58	ug/L		02/14/13 16:21	02/20/13 21:01	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072	U	0.20	0.072	ug/L		02/12/13 10:58	02/12/13 13:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Odor	1.0	U	1.0	1.0	T.O.N.			02/06/13 16:20	1
Chloride	0.20	U	1.0	0.20	mg/L			02/18/13 16:36	1
Fluoride	0.020	U	0.20	0.020	mg/L			02/18/13 16:36	1
Sulfate	0.50	U	1.0	0.50	mg/L			02/18/13 16:36	1
Cyanide	0.0025	U	0.010	0.0025	mg/L		02/08/13 10:00	02/08/13 14:40	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			02/08/13 06:06	1
Nitrite as N	0.10	U	0.50	0.10	mg/L			02/08/13 06:06	1
Nitrate as N	0.10	U	0.50	0.10	mg/L			02/08/13 06:06	1
Phenolics, Total Recoverable	0.025	U	0.050	0.025	mg/L		02/15/13 10:45	02/16/13 15:02	1
Color	5.0	U	5.0	5.0	PCU			02/08/13 06:50	1
Total Dissolved Solids	5.0	U Q	5.0	5.0	mg/L			02/14/13 15:16	1
pH	8.94				SU			02/07/13 12:00	1
MBAS	0.050	U	0.10	0.050	mg/l LAS MW 340			02/08/13 10:10	1

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Travel

Lab Sample ID: 660-52541-3

Date Collected: 02/06/13 00:00

Matrix: Water

Date Received: 02/06/13 15:55

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	3.8	U	100	3.8	ug/L			02/07/13 15:09	1
Acrylonitrile	1.2	U	100	1.2	ug/L			02/07/13 15:09	1
Benzene	0.50	U	1.0	0.50	ug/L			02/07/13 15:09	1
Bromoform	0.58	U	1.0	0.58	ug/L			02/07/13 15:09	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			02/07/13 15:09	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			02/07/13 15:09	1
Chlorodibromomethane	0.34	U	1.0	0.34	ug/L			02/07/13 15:09	1
Chloroethane	2.5	U	5.0	2.5	ug/L			02/07/13 15:09	1
2-Chloroethyl vinyl ether	0.95	U	5.0	0.95	ug/L			02/07/13 15:09	1
Chloroform	0.90	U	1.0	0.90	ug/L			02/07/13 15:09	1
Dichlorobromomethane	0.35	U	1.0	0.35	ug/L			02/07/13 15:09	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			02/07/13 15:09	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			02/07/13 15:09	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			02/07/13 15:09	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			02/07/13 15:09	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 15:09	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 15:09	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			02/07/13 15:09	1
Bromomethane	2.5	U	5.0	2.5	ug/L			02/07/13 15:09	1
Chloromethane	1.0	U	4.0	1.0	ug/L			02/07/13 15:09	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			02/07/13 15:09	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			02/07/13 15:09	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 15:09	1
Toluene	0.51	U	1.0	0.51	ug/L			02/07/13 15:09	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			02/07/13 15:09	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			02/07/13 15:09	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			02/07/13 15:09	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			02/07/13 15:09	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 15:09	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			02/07/13 15:09	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			02/07/13 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130					02/07/13 15:09	1
Dibromofluoromethane	100		70 - 130					02/07/13 15:09	1
Toluene-d8 (Surr)	98		70 - 130					02/07/13 15:09	1

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-266081/6

Matrix: Water

Analysis Batch: 266081

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.18	U	0.50	0.18	ug/L			02/12/13 10:53	1
Carbon tetrachloride	0.22	U	0.50	0.22	ug/L			02/12/13 10:53	1
cis-1,2-Dichloroethylene	0.37	U	0.50	0.37	ug/L			02/12/13 10:53	1
1,2-Dichloroethane	0.17	U	0.50	0.17	ug/L			02/12/13 10:53	1
1,1-Dichloroethylene	0.32	U	0.50	0.32	ug/L			02/12/13 10:53	1
Dichloromethane	0.36	U	0.50	0.36	ug/L			02/12/13 10:53	1
1,2-Dichloropropane	0.45	U	0.50	0.45	ug/L			02/12/13 10:53	1
Ethylbenzene	0.12	U	0.50	0.12	ug/L			02/12/13 10:53	1
Monochlorobenzene	0.27	U	0.50	0.27	ug/L			02/12/13 10:53	1
o-Dichlorobenzene	0.17	U	0.50	0.17	ug/L			02/12/13 10:53	1
para-Dichlorobenzene	0.18	U	0.50	0.18	ug/L			02/12/13 10:53	1
Styrene	0.28	U	0.50	0.28	ug/L			02/12/13 10:53	1
Tetrachloroethylene	0.30	U	0.50	0.30	ug/L			02/12/13 10:53	1
Toluene	0.23	U	0.50	0.23	ug/L			02/12/13 10:53	1
trans-1,2-Dichloroethylene	0.24	U	0.50	0.24	ug/L			02/12/13 10:53	1
1,2,4-Trichlorobenzene	0.18	U	0.50	0.18	ug/L			02/12/13 10:53	1
1,1,1-Trichloroethane	0.27	U	0.50	0.27	ug/L			02/12/13 10:53	1
1,1,2-Trichloroethane	0.22	U	0.50	0.22	ug/L			02/12/13 10:53	1
Trichloroethylene	0.37	U	0.50	0.37	ug/L			02/12/13 10:53	1
Vinyl chloride	0.33	U	0.50	0.33	ug/L			02/12/13 10:53	1
Xylenes, Total	0.27	U	0.50	0.27	ug/L			02/12/13 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		70 - 130		02/12/13 10:53	1
1,2-Dichlorobenzene-d4	80		70 - 130		02/12/13 10:53	1

Lab Sample ID: LCS 680-266081/3

Matrix: Water

Analysis Batch: 266081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.9		ug/L		100	70 - 130
Carbon tetrachloride	20.0	24.0		ug/L		120	70 - 130
cis-1,2-Dichloroethylene	20.0	20.8		ug/L		104	70 - 130
1,2-Dichloroethane	20.0	21.0		ug/L		105	70 - 130
1,1-Dichloroethylene	20.0	23.4		ug/L		117	70 - 130
Dichloromethane	20.0	20.0		ug/L		100	70 - 130
1,2-Dichloropropane	20.0	19.7		ug/L		99	70 - 130
Ethylbenzene	20.0	22.2		ug/L		111	70 - 130
Monochlorobenzene	20.0	21.9		ug/L		109	70 - 130
o-Dichlorobenzene	20.0	22.0		ug/L		110	70 - 130
para-Dichlorobenzene	20.0	25.0		ug/L		125	70 - 130
Styrene	20.0	22.9		ug/L		115	70 - 130
Tetrachloroethylene	20.0	22.3		ug/L		112	70 - 130
Toluene	20.0	21.1		ug/L		106	70 - 130
trans-1,2-Dichloroethylene	20.0	21.7		ug/L		108	70 - 130
1,2,4-Trichlorobenzene	20.0	25.2		ug/L		126	70 - 130
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	70 - 130

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-266081/3

Matrix: Water

Analysis Batch: 266081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	70 - 130
Trichloroethylene	20.0	20.7		ug/L		103	70 - 130
Vinyl chloride	20.0	22.0		ug/L		110	70 - 130
Xylenes, Total	60.0	67.8		ug/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		70 - 130
1,2-Dichlorobenzene-d4	101		70 - 130

Lab Sample ID: LCSD 680-266081/4

Matrix: Water

Analysis Batch: 266081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.1		ug/L		96	70 - 130	4	30
Carbon tetrachloride	20.0	23.3		ug/L		117	70 - 130	3	30
cis-1,2-Dichloroethylene	20.0	19.9		ug/L		99	70 - 130	5	30
1,2-Dichloroethane	20.0	20.6		ug/L		103	70 - 130	2	30
1,1-Dichloroethylene	20.0	22.2		ug/L		111	70 - 130	5	30
Dichloromethane	20.0	19.8		ug/L		99	70 - 130	1	30
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	4	30
Ethylbenzene	20.0	23.0		ug/L		115	70 - 130	4	30
Monochlorobenzene	20.0	21.5		ug/L		107	70 - 130	2	30
o-Dichlorobenzene	20.0	21.3		ug/L		106	70 - 130	3	30
para-Dichlorobenzene	20.0	21.6		ug/L		108	70 - 130	15	30
Styrene	20.0	22.4		ug/L		112	70 - 130	2	30
Tetrachloroethylene	20.0	22.5		ug/L		113	70 - 130	1	30
Toluene	20.0	21.2		ug/L		106	70 - 130	0	30
trans-1,2-Dichloroethylene	20.0	21.2		ug/L		106	70 - 130	2	30
1,2,4-Trichlorobenzene	20.0	22.6		ug/L		113	70 - 130	11	30
1,1,1-Trichloroethane	20.0	21.9		ug/L		109	70 - 130	1	30
1,1,2-Trichloroethane	20.0	22.1		ug/L		110	70 - 130	2	30
Trichloroethylene	20.0	21.4		ug/L		107	70 - 130	4	30
Vinyl chloride	20.0	22.8		ug/L		114	70 - 130	3	30
Xylenes, Total	60.0	67.1		ug/L		112	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	103		70 - 130
1,2-Dichlorobenzene-d4	100		70 - 130

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 660-134218/7

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	3.8	U	100	3.8	ug/L			02/07/13 09:11	1
Acrylonitrile	1.2	U	100	1.2	ug/L			02/07/13 09:11	1
Benzene	0.50	U	1.0	0.50	ug/L			02/07/13 09:11	1
Bromoform	0.58	U	1.0	0.58	ug/L			02/07/13 09:11	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			02/07/13 09:11	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			02/07/13 09:11	1
Chlorodibromomethane	0.34	U	1.0	0.34	ug/L			02/07/13 09:11	1
Chloroethane	2.5	U	5.0	2.5	ug/L			02/07/13 09:11	1
2-Chloroethyl vinyl ether	0.95	U	5.0	0.95	ug/L			02/07/13 09:11	1
Chloroform	0.90	U	1.0	0.90	ug/L			02/07/13 09:11	1
Dichlorobromomethane	0.35	U	1.0	0.35	ug/L			02/07/13 09:11	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			02/07/13 09:11	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			02/07/13 09:11	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			02/07/13 09:11	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			02/07/13 09:11	1
cis-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 09:11	1
trans-1,3-Dichloropropene	0.14	U	1.0	0.14	ug/L			02/07/13 09:11	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			02/07/13 09:11	1
Bromomethane	2.5	U	5.0	2.5	ug/L			02/07/13 09:11	1
Chloromethane	1.0	U	4.0	1.0	ug/L			02/07/13 09:11	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			02/07/13 09:11	1
1,1,2,2-Tetrachloroethane	0.15	U	1.0	0.15	ug/L			02/07/13 09:11	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 09:11	1
Toluene	0.51	U	1.0	0.51	ug/L			02/07/13 09:11	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			02/07/13 09:11	1
trans-1,2-Dichloroethene	0.44	U	1.0	0.44	ug/L			02/07/13 09:11	1
1,1,1-Trichloroethane	0.46	U	1.0	0.46	ug/L			02/07/13 09:11	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			02/07/13 09:11	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			02/07/13 09:11	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			02/07/13 09:11	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			02/07/13 09:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		02/07/13 09:11	1
Dibromofluoromethane	100		70 - 130		02/07/13 09:11	1
Toluene-d8 (Surr)	98		70 - 130		02/07/13 09:11	1

Lab Sample ID: LCS 660-134218/5

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	100	101		ug/L		101	50 - 150
Acrylonitrile	40.0	33.2	I	ug/L		83	50 - 150
Benzene	20.0	17.7		ug/L		88	37 - 151
Bromoform	20.0	19.4		ug/L		97	45 - 169
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 140
Chlorobenzene	20.0	20.1		ug/L		100	37 - 160

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 660-134218/5

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	20.0	18.6		ug/L		93	53 - 149
Chloroethane	20.0	16.4		ug/L		82	14 - 230
2-Chloroethyl vinyl ether	100	98.0		ug/L		98	0 - 305
Chloroform	20.0	17.5		ug/L		88	51 - 138
Dichlorobromomethane	20.0	19.3		ug/L		97	35 - 155
1,1-Dichloroethane	20.0	17.1		ug/L		85	59 - 155
1,2-Dichloroethane	20.0	19.2		ug/L		96	49 - 155
1,1-Dichloroethene	20.0	16.0		ug/L		80	0 - 234
1,2-Dichloropropane	20.0	18.3		ug/L		92	0 - 210
cis-1,3-Dichloropropene	20.0	18.3		ug/L		91	0 - 227
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	17 - 183
Ethylbenzene	20.0	20.2		ug/L		101	37 - 162
Bromomethane	20.0	7.82		ug/L		39	0 - 242
Chloromethane	20.0	16.8		ug/L		84	0 - 273
Methylene Chloride	20.0	16.8		ug/L		84	0 - 221
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	46 - 157
Tetrachloroethene	20.0	18.3		ug/L		92	64 - 148
Toluene	20.0	18.1		ug/L		90	47 - 150
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	70 - 130
trans-1,2-Dichloroethene	20.0	16.8		ug/L		84	54 - 156
1,1,1-Trichloroethane	20.0	18.3		ug/L		91	52 - 162
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	52 - 150
Trichloroethene	20.0	18.0		ug/L		90	71 - 157
Vinyl chloride	20.0	17.3		ug/L		86	0 - 251
Trichlorofluoromethane	20.0	21.2		ug/L		106	17 - 181

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	98		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 660-52537-D-2 MS

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	3.8	U	100	102		ug/L		102	54 - 145
Acrylonitrile	1.2	U	40.0	33.3	I	ug/L		83	10 - 183
Benzene	0.50	U	20.0	18.2		ug/L		91	37 - 151
Bromoform	0.58	U	20.0	19.8		ug/L		99	45 - 169
Carbon tetrachloride	0.42	U	20.0	19.5		ug/L		97	70 - 140
Chlorobenzene	0.63	U	20.0	21.0		ug/L		105	37 - 160
Chlorodibromomethane	0.34	U	20.0	19.4		ug/L		97	53 - 149
Chloroethane	2.5	U	20.0	15.1		ug/L		76	14 - 230
2-Chloroethyl vinyl ether	0.95	U	100	0.95	U	ug/L		0	0 - 305
Chloroform	0.90	U	20.0	18.5		ug/L		92	51 - 138
Dichlorobromomethane	0.35	U	20.0	20.3		ug/L		102	35 - 155
1,1-Dichloroethane	0.52	U	20.0	17.8		ug/L		89	59 - 155

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-52537-D-2 MS

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.57	U	20.0	20.2		ug/L		101	49 - 155
1,1-Dichloroethane	0.45	U	20.0	16.7		ug/L		83	0 - 234
1,2-Dichloropropane	0.52	U	20.0	18.8		ug/L		94	0 - 210
cis-1,3-Dichloropropene	0.14	U	20.0	19.0		ug/L		95	0 - 227
trans-1,3-Dichloropropene	0.14	U	20.0	18.6		ug/L		93	17 - 183
Ethylbenzene	0.44	U	20.0	21.2		ug/L		106	37 - 162
Bromomethane	2.5	U	20.0	6.77		ug/L		34	0 - 242
Chloromethane	1.0	U	20.0	16.0		ug/L		80	0 - 273
Methylene Chloride	4.0	U	20.0	16.9		ug/L		85	0 - 221
1,1,2,2-Tetrachloroethane	0.15	U	20.0	20.3		ug/L		102	46 - 157
Tetrachloroethene	0.50	U	20.0	18.9		ug/L		95	64 - 148
Toluene	0.51	U	20.0	19.5		ug/L		98	47 - 150
cis-1,2-Dichloroethene	0.65	U	20.0	18.2		ug/L		91	50 - 128
trans-1,2-Dichloroethene	0.44	U	20.0	18.0		ug/L		90	54 - 156
1,1,1-Trichloroethane	0.46	U	20.0	19.0		ug/L		95	52 - 162
1,1,2-Trichloroethane	0.47	U	20.0	19.1		ug/L		96	52 - 150
Trichloroethene	0.50	U	20.0	19.1		ug/L		95	71 - 157
Vinyl chloride	0.50	U	20.0	16.7		ug/L		84	0 - 251
Trichlorofluoromethane	2.5	U	20.0	22.9		ug/L		114	17 - 181

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 660-52537-A-1 DU

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Acrolein	3.8	U	3.8	U	ug/L		NC	74
Acrylonitrile	1.2	U	1.2	U	ug/L		NC	41
Benzene	0.50	U	0.50	U	ug/L		NC	31
Bromoform	0.58	U	0.58	U	ug/L		NC	30
Carbon tetrachloride	0.42	U	0.42	U	ug/L		NC	25
Chlorobenzene	0.63	U	0.63	U	ug/L		NC	25
Chlorodibromomethane	0.34	U	0.34	U	ug/L		NC	25
Chloroethane	2.5	U	2.5	U	ug/L		NC	36
2-Chloroethyl vinyl ether	0.95	U	0.95	U	ug/L		NC	96
Chloroform	0.90	U	0.90	U	ug/L		NC	25
Dichlorobromomethane	0.35	U	0.35	U	ug/L		NC	30
1,1-Dichloroethane	0.52	U	0.52	U	ug/L		NC	40
1,2-Dichloroethane	0.57	U	0.57	U	ug/L		NC	26
1,1-Dichloroethene	0.45	U	0.45	U	ug/L		NC	25
1,2-Dichloropropane	0.52	U	0.52	U	ug/L		NC	25
cis-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	25
trans-1,3-Dichloropropene	0.14	U	0.14	U	ug/L		NC	25
Ethylbenzene	0.44	U	0.44	U	ug/L		NC	25

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-52537-A-1 DU

Matrix: Water

Analysis Batch: 134218

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromomethane	2.5	U	2.5	U	ug/L		NC	32
Chloromethane	1.0	U	1.0	U	ug/L		NC	40
Methylene Chloride	4.0	U	4.0	U	ug/L		NC	37
1,1,2,2-Tetrachloroethane	0.15	U	0.15	U	ug/L		NC	25
Tetrachloroethene	0.50	U	0.50	U	ug/L		NC	25
Toluene	0.51	U	0.51	U	ug/L		NC	25
cis-1,2-Dichloroethene	0.65	U	0.65	U	ug/L		NC	28
trans-1,2-Dichloroethene	0.44	U	0.44	U	ug/L		NC	40
1,1,1-Trichloroethane	0.46	U	0.46	U	ug/L		NC	25
1,1,2-Trichloroethane	0.47	U	0.47	U	ug/L		NC	25
Trichloroethene	0.50	U	0.50	U	ug/L		NC	25
Vinyl chloride	0.50	U	0.50	U	ug/L		NC	40
Trichlorofluoromethane	2.5	U	2.5	U	ug/L		NC	65

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-265466/13-A

Matrix: Water

Analysis Batch: 266165

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 265466

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	0.033	U	0.20	0.033	ug/L		02/07/13 13:19	02/08/13 21:37	1
Atrazine	0.022	U	0.20	0.022	ug/L		02/07/13 13:19	02/08/13 21:37	1
Benzo[a]pyrene	0.029	U	0.20	0.029	ug/L		02/07/13 13:19	02/08/13 21:37	1
Di (2-ethylhexyl)phthalate	0.60	U	2.0	0.60	ug/L		02/07/13 13:19	02/08/13 21:37	1
Di(2-ethylhexyl)adipate	0.60	U	1.5	0.60	ug/L		02/07/13 13:19	02/08/13 21:37	1
Hexachlorobenzene	0.041	U	0.20	0.041	ug/L		02/07/13 13:19	02/08/13 21:37	1
Hexachlorocyclopentadiene	0.042	U	2.0	0.042	ug/L		02/07/13 13:19	02/08/13 21:37	1
Simazine	0.035	U	0.50	0.035	ug/L		02/07/13 13:19	02/08/13 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	100		70 - 130	02/07/13 13:19	02/08/13 21:37	1

Lab Sample ID: LCS 680-265466/14-A

Matrix: Water

Analysis Batch: 266165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di (2-ethylhexyl)phthalate	5.00	6.26		ug/L		125	70 - 130
Di(2-ethylhexyl)adipate	5.00	6.08		ug/L		122	70 - 130
Hexachlorobenzene	5.00	4.35		ug/L		87	70 - 130
Hexachlorocyclopentadiene	5.00	3.75		ug/L		75	70 - 130

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-265466/14-A

Matrix: Water

Analysis Batch: 266165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Simazine	5.00	4.52		ug/L		90	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Triphenylphosphate	99		70 - 130				

Lab Sample ID: 680-87176-E-1-A MS

Matrix: Water

Analysis Batch: 266165

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 265466

Sample				MS		MS		Top Data: 20040	
Analyte	Result	Qualifier	Spike Added	Result	Qualifier	Unit	D	%Rec	%Rec. Limits
Di (2-ethylhexyl)phthalate	3.8		5.00	10.3		ug/L		130	70 - 130
Di(2-ethylhexyl)adipate	0.58		5.00	6.06		ug/L		121	70 - 130
Hexachlorobenzene	0.040		5.00	4.24		ug/L		85	70 - 130
Hexachlorocyclopentadiene	0.041		5.00	4.30		ug/L		86	70 - 130
Simazine	0.034		5.00	4.87		ug/L		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
Triphenylphosphate	98		70 - 130						

Lab Sample ID: 680-87176-E-1-B MSD

Matrix: Water

Analysis Batch: 266165

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di (2-ethylhexyl)phthalate	3.8		5.00	7.35	J3	ug/L		71	70 - 130	33	30
Di(2-ethylhexyl)adipate	0.58		5.00	6.20		ug/L		124	70 - 130	2	30
Hexachlorobenzene	0.040		5.00	4.52		ug/L		90	70 - 130	6	30
Hexachlorocyclopentadiene	0.041		5.00	4.32		ug/L		86	70 - 130	1	30
Simazine	0.034		5.00	4.59		ug/L		92	70 - 130	6	30
Surrogate	%Recovery	MSD Qualifier	Limits								
Triphenylphosphate	99		70 - 130								

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-265634/8-A

Matrix: Water

Analysis Batch: 265919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 265634

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	6.3	U	10	6.3	ug/L		02/08/13 12:53	02/11/13 19:48	1

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 548.1 - Endothall (GC/MS) (Continued)

Lab Sample ID: LCS 680-265634/9-A

Matrix: Water

Analysis Batch: 265919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	25.0	18.5		ug/L		74	60 - 140

Lab Sample ID: 510-88621-I-1-A MS

Matrix: Water

Analysis Batch: 265919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 265634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	6.3	U J3	25.0	12.5	J3	ug/L		50	60 - 140

Lab Sample ID: 510-88621-I-1-B MSD

Matrix: Water

Analysis Batch: 265919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endothall	6.3	U J3	25.0	13.8	J3	ug/L		55	60 - 140	10	30

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-265792/5-A

Matrix: Water

Analysis Batch: 266889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 265792

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.75	U	10	0.75	ug/L		02/11/13 15:02	02/21/13 03:50	1
Acenaphthylene	0.80	U	10	0.80	ug/L		02/11/13 15:02	02/21/13 03:50	1
Anthracene	0.73	U	10	0.73	ug/L		02/11/13 15:02	02/21/13 03:50	1
Benzidine	42	U	80	42	ug/L		02/11/13 15:02	02/21/13 03:50	1
Benzo(a)anthracene	0.94	U	10	0.94	ug/L		02/11/13 15:02	02/21/13 03:50	1
Benzo(b)fluoranthene	2.5	U	10	2.5	ug/L		02/11/13 15:02	02/21/13 03:50	1
Benzo(k)fluoranthene	0.90	U	10	0.90	ug/L		02/11/13 15:02	02/21/13 03:50	1
Benzo(g,h,i)perylene	0.89	U	10	0.89	ug/L		02/11/13 15:02	02/21/13 03:50	1
Benzo(a)pyrene	0.74	U	10	0.74	ug/L		02/11/13 15:02	02/21/13 03:50	1
Bis(2-chloroethoxy)methane	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
Bis(2-chloroethyl)ether	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
Bis(2-ethylhexyl) phthalate	1.6	U	10	1.6	ug/L		02/11/13 15:02	02/21/13 03:50	1
4-Bromophenyl phenyl ether	0.80	U	10	0.80	ug/L		02/11/13 15:02	02/21/13 03:50	1
Butyl benzyl phthalate	1.2	U	10	1.2	ug/L		02/11/13 15:02	02/21/13 03:50	1
4-Chloro-3-methylphenol	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
2-Chloronaphthalene	0.78	U	10	0.78	ug/L		02/11/13 15:02	02/21/13 03:50	1
2-Chlorophenol	0.90	U	10	0.90	ug/L		02/11/13 15:02	02/21/13 03:50	1
4-Chlorophenyl phenyl ether	0.81	U	10	0.81	ug/L		02/11/13 15:02	02/21/13 03:50	1
Chrysene	0.52	U	10	0.52	ug/L		02/11/13 15:02	02/21/13 03:50	1
Dibenz(a,h)anthracene	0.76	U	10	0.76	ug/L		02/11/13 15:02	02/21/13 03:50	1
Di-n-butyl phthalate	0.88	U	10	0.88	ug/L		02/11/13 15:02	02/21/13 03:50	1
1,2-Dichlorobenzene	0.56	U	10	0.56	ug/L		02/11/13 15:02	02/21/13 03:50	1
1,3-Dichlorobenzene	0.66	U	10	0.66	ug/L		02/11/13 15:02	02/21/13 03:50	1
1,4-Dichlorobenzene	0.58	U	10	0.58	ug/L		02/11/13 15:02	02/21/13 03:50	1
3,3'-Dichlorobenzidine	30	U	60	30	ug/L		02/11/13 15:02	02/21/13 03:50	1

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-265792/5-A
Matrix: Water
Analysis Batch: 266889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 265792

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
Diethyl phthalate	0.86	U	10	0.86	ug/L		02/11/13 15:02	02/21/13 03:50	1
2,4-Dimethylphenol	3.9	U	10	3.9	ug/L		02/11/13 15:02	02/21/13 03:50	1
Dimethyl phthalate	0.97	U	10	0.97	ug/L		02/11/13 15:02	02/21/13 03:50	1
4,6-Dinitro-2-methylphenol	5.0	U	50	5.0	ug/L		02/11/13 15:02	02/21/13 03:50	1
2,4-Dinitrophenol	10	U	50	10	ug/L		02/11/13 15:02	02/21/13 03:50	1
2,4-Dinitrotoluene	1.2	U	10	1.2	ug/L		02/11/13 15:02	02/21/13 03:50	1
2,6-Dinitrotoluene	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
Di-n-octyl phthalate	1.3	U	10	1.3	ug/L		02/11/13 15:02	02/21/13 03:50	1
1,2-Diphenylhydrazine	0.86	U	10	0.86	ug/L		02/11/13 15:02	02/21/13 03:50	1
Fluoranthene	0.71	U	10	0.71	ug/L		02/11/13 15:02	02/21/13 03:50	1
Fluorene	0.93	U	10	0.93	ug/L		02/11/13 15:02	02/21/13 03:50	1
Hexachlorobenzene	0.81	U	10	0.81	ug/L		02/11/13 15:02	02/21/13 03:50	1
Hexachlorobutadiene	0.62	U	10	0.62	ug/L		02/11/13 15:02	02/21/13 03:50	1
Hexachlorocyclopentadiene	10	U	20	10	ug/L		02/11/13 15:02	02/21/13 03:50	1
Hexachloroethane	0.81	U	10	0.81	ug/L		02/11/13 15:02	02/21/13 03:50	1
Indeno[1,2,3-cd]pyrene	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
Isophorone	0.90	U	10	0.90	ug/L		02/11/13 15:02	02/21/13 03:50	1
Naphthalene	0.70	U	10	0.70	ug/L		02/11/13 15:02	02/21/13 03:50	1
Nitrobenzene	0.58	U	10	0.58	ug/L		02/11/13 15:02	02/21/13 03:50	1
2-Nitrophenol	0.74	U	10	0.74	ug/L		02/11/13 15:02	02/21/13 03:50	1
4-Nitrophenol	10	U	50	10	ug/L		02/11/13 15:02	02/21/13 03:50	1
N-Nitrosodimethylamine	10	U	20	10	ug/L		02/11/13 15:02	02/21/13 03:50	1
N-Nitrosodiphenylamine	0.91	U	10	0.91	ug/L		02/11/13 15:02	02/21/13 03:50	1
N-Nitrosodi-n-propylamine	0.74	U	10	0.74	ug/L		02/11/13 15:02	02/21/13 03:50	1
Pentachlorophenol	1.8	U	50	1.8	ug/L		02/11/13 15:02	02/21/13 03:50	1
Phenanthrene	0.81	U	10	0.81	ug/L		02/11/13 15:02	02/21/13 03:50	1
Phenol	1.1	U	10	1.1	ug/L		02/11/13 15:02	02/21/13 03:50	1
Pyrene	0.64	U	10	0.64	ug/L		02/11/13 15:02	02/21/13 03:50	1
1,2,4-Trichlorobenzene	0.56	U	10	0.56	ug/L		02/11/13 15:02	02/21/13 03:50	1
2,4,6-Trichlorophenol	0.82	U	10	0.82	ug/L		02/11/13 15:02	02/21/13 03:50	1
bis (2-chloroisopropyl) ether	0.85	U	10	0.85	ug/L		02/11/13 15:02	02/21/13 03:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		38 - 121	02/11/13 15:02	02/21/13 03:50	1
2-Fluorophenol	63		35 - 110	02/11/13 15:02	02/21/13 03:50	1
Nitrobenzene-d5	70		44 - 119	02/11/13 15:02	02/21/13 03:50	1
Terphenyl-d14	95		10 - 165	02/11/13 15:02	02/21/13 03:50	1
2,4,6-Tribromophenol	51		34 - 132	02/11/13 15:02	02/21/13 03:50	1

Lab Sample ID: LCS 680-265792/6-A
Matrix: Water
Analysis Batch: 266889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	71.5		ug/L		72	47 - 145
Acenaphthylene	100	76.6		ug/L		77	33 - 145
Anthracene	100	76.7		ug/L		77	27 - 133

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-265792/6-A

Matrix: Water

Analysis Batch: 266889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzidine	100	70.4	I	ug/L		70	1 - 200
Benzo[a]anthracene	100	78.6		ug/L		79	33 - 143
Benzo[b]fluoranthene	100	85.2		ug/L		85	24 - 159
Benzo[k]fluoranthene	100	78.2		ug/L		78	11 - 162
Benzo[g,h,i]perylene	100	79.5		ug/L		80	1 - 219
Benzo[a]pyrene	100	84.0		ug/L		84	17 - 163
Bis(2-chloroethoxy)methane	100	78.6		ug/L		79	33 - 184
Bis(2-chloroethyl)ether	100	75.2		ug/L		75	12 - 158
Bis(2-ethylhexyl) phthalate	100	88.8		ug/L		89	8 - 158
4-Bromophenyl phenyl ether	100	82.0		ug/L		82	53 - 127
Butyl benzyl phthalate	100	91.3		ug/L		91	1 - 152
4-Chloro-3-methylphenol	100	77.2		ug/L		77	22 - 147
2-Chloronaphthalene	100	71.4		ug/L		71	60 - 118
2-Chlorophenol	100	70.6		ug/L		71	23 - 134
4-Chlorophenyl phenyl ether	100	80.2		ug/L		80	25 - 158
Chrysene	100	85.0		ug/L		85	17 - 168
Dibenz(a,h)anthracene	100	78.1		ug/L		78	1 - 227
Di-n-butyl phthalate	100	85.7		ug/L		86	1 - 118
1,2-Dichlorobenzene	100	63.6		ug/L		64	32 - 129
1,3-Dichlorobenzene	100	63.3		ug/L		63	1 - 172
1,4-Dichlorobenzene	100	63.8		ug/L		64	20 - 124
3,3'-Dichlorobenzidine	100	76.2		ug/L		76	1 - 262
2,4-Dichlorophenol	100	66.4		ug/L		66	39 - 135
Diethyl phthalate	100	85.9		ug/L		86	1 - 114
2,4-Dimethylphenol	100	56.8		ug/L		57	32 - 119
Dimethyl phthalate	100	83.0		ug/L		83	1 - 112
4,6-Dinitro-2-methylphenol	100	46.9	I	ug/L		47	1 - 181
2,4-Dinitrophenol	100	10	U	ug/L		1	1 - 191
2,4-Dinitrotoluene	100	80.8		ug/L		81	39 - 139
2,6-Dinitrotoluene	100	80.6		ug/L		81	50 - 158
Di-n-octyl phthalate	100	94.2		ug/L		94	4 - 146
1,2-Diphenylhydrazine	100	73.7		ug/L		74	30 - 130
Fluoranthene	100	79.2		ug/L		79	26 - 137
Fluorene	100	78.5		ug/L		79	59 - 121
Hexachlorobenzene	100	75.7		ug/L		76	1 - 152
Hexachlorobutadiene	100	71.3		ug/L		71	24 - 116
Hexachlorocyclopentadiene	100	10	U J3	ug/L		0	1 - 200
Hexachloroethane	100	58.6		ug/L		59	40 - 113
Indeno[1,2,3-cd]pyrene	100	82.4		ug/L		82	1 - 171
Isophorene	100	63.7		ug/L		64	21 - 196
Naphthalene	100	69.4		ug/L		69	21 - 133
Nitrobenzene	100	67.9		ug/L		68	35 - 180
2-Nitrophenol	100	74.6		ug/L		75	29 - 182
4-Nitrophenol	100	114		ug/L		114	1 - 132
N-Nitrosodimethylamine	100	71.8		ug/L		72	10 - 150
N-Nitrosodiphenylamine	100	79.1		ug/L		79	10 - 150
N-Nitrosodi-n-propylamine	100	69.9		ug/L		70	1 - 230
Pentachlorophenol	100	12.1	I J3	ug/L		12	14 - 176

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-265792/6-A

Matrix: Water

Analysis Batch: 266889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	100	78.0		ug/L		78	54 - 120
Phenol	100	66.4		ug/L		66	5 - 112
Pyrene	100	79.3		ug/L		79	52 - 115
1,2,4-Trichlorobenzene	100	66.5		ug/L		66	44 - 142
2,4,6-Trichlorophenol	100	55.4		ug/L		55	37 - 144
bis (2-chloroisopropyl) ether	100	77.9		ug/L		78	36 - 166

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	75		38 - 121
2-Fluorophenol	67		35 - 110
Nitrobenzene-d5	72		44 - 119
Terphenyl-d14	82		10 - 165
2,4,6-Tribromophenol	72		34 - 132

Lab Sample ID: 680-87321-A-1-A MS

Matrix: Water

Analysis Batch: 267158

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.74	U	99.4	57.9		ug/L		58	47 - 145
Acenaphthylene	0.79	U	99.4	57.3		ug/L		58	33 - 145
Anthracene	0.72	U	99.4	66.5		ug/L		67	27 - 133
Benzidine	42	U J3	99.4	42	U J3	ug/L		0	1 - 200
Benzo(a)anthracene	0.93	U	99.4	72.0		ug/L		72	33 - 143
Benzo(b)fluoranthene	2.5	U	99.4	71.1		ug/L		72	24 - 159
Benzo(k)fluoranthene	0.89	U	99.4	71.2		ug/L		72	11 - 162
Benzo(g,h,i)perylene	0.88	U	99.4	71.9		ug/L		72	1 - 219
Benzo(a)pyrene	0.73	U	99.4	76.2		ug/L		77	17 - 163
Bis(2-chloroethoxy)methane	1.1	U	99.4	62.8		ug/L		63	33 - 184
Bis(2-chloroethyl)ether	1.1	U	99.4	53.7		ug/L		54	12 - 158
Bis(2-ethylhexyl) phthalate	1.6	U	99.4	79.3		ug/L		80	8 - 158
4-Bromophenyl phenyl ether	0.79	U	99.4	64.1		ug/L		65	53 - 127
Butyl benzyl phthalate	1.2	U	99.4	82.8		ug/L		83	1 - 152
4-Chloro-3-methylphenol	1.1	U	99.4	65.5		ug/L		66	22 - 147
2-Chloronaphthalene	0.77	U J3	99.4	48.4	J3	ug/L		49	60 - 118
2-Chlorophenol	0.89	U	99.4	54.3		ug/L		55	23 - 134
4-Chlorophenyl phenyl ether	0.80	U	99.4	60.0		ug/L		60	25 - 158
Chrysene	0.52	U	99.4	73.9		ug/L		74	17 - 168
Dibenz(a,h)anthracene	0.75	U	99.4	73.0		ug/L		73	1 - 227
Di-n-butyl phthalate	0.87	U	99.4	76.7		ug/L		77	1 - 118
1,2-Dichlorobenzene	0.56	U	99.4	41.0		ug/L		41	32 - 129
1,3-Dichlorobenzene	0.65	U	99.4	38.1		ug/L		38	1 - 172
1,4-Dichlorobenzene	0.58	U	99.4	39.8		ug/L		40	20 - 124
3,3'-Dichlorobenzidine	30	U J3	99.4	30	U J3	ug/L		0	1 - 262
2,4-Dichlorophenol	1.1	U	99.4	59.9		ug/L		60	39 - 135
Diethyl phthalate	0.85	U	99.4	73.7		ug/L		74	1 - 114
2,4-Dimethylphenol	3.9	U	99.4	57.6		ug/L		58	32 - 119
Dimethyl phthalate	0.96	U	99.4	71.1		ug/L		72	1 - 112

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-87321-A-1-A MS

Matrix: Water

Analysis Batch: 267158

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,6-Dinitro-2-methylphenol	5.0	U	99.4	79.0		ug/L		80	1 - 181
2,4-Dinitrophenol	9.9	U	99.4	83.6		ug/L		84	1 - 191
2,4-Dinitrotoluene	1.2	U	99.4	70.7		ug/L		71	39 - 139
2,6-Dinitrotoluene	1.1	U	99.4	68.2		ug/L		69	50 - 158
Di-n-octyl phthalate	1.3	U	99.4	82.5		ug/L		83	4 - 146
1,2-Diphenylhydrazine	0.85	U	99.4	59.7		ug/L		60	30 - 130
Fluoranthene	0.70	U	99.4	72.1		ug/L		73	26 - 137
Fluorene	0.92	U	99.4	60.9		ug/L		61	59 - 121
Hexachlorobenzene	0.80	U	99.4	63.5		ug/L		64	1 - 152
Hexachlorobutadiene	0.62	U J3	99.4	22.5	J3	ug/L		23	24 - 116
Hexachlorocyclopentadiene	9.9	U J3	99.4	9.9	U J3	ug/L		0	1 - 200
Hexachloroethane	0.80	U J3	99.4	27.3	J3	ug/L		27	40 - 113
Indeno[1,2,3-cd]pyrene	1.1	U	99.4	73.1		ug/L		74	1 - 171
Isophorone	0.89	U	99.4	52.4		ug/L		53	21 - 196
Naphthalene	0.69	U	99.4	46.4		ug/L		47	21 - 133
Nitrobenzene	0.58	U	99.4	54.9		ug/L		55	35 - 180
2-Nitrophenol	0.73	U	99.4	57.2		ug/L		58	29 - 182
4-Nitrophenol	9.9	U	99.4	80.1		ug/L		81	1 - 132
N-Nitrosodimethylamine	9.9	U	99.4	57.7		ug/L		58	10 - 150
N-Nitrosodiphenylamine	0.90	U	99.4	58.1		ug/L		58	10 - 150
N-Nitrosodi-n-propylamine	0.73	U	99.4	61.2		ug/L		62	1 - 230
Pentachlorophenol	1.8	U J3	99.4	80.6		ug/L		81	14 - 176
Phenanthrene	0.80	U	99.4	65.9		ug/L		66	54 - 120
Phenol	1.1	U	99.4	50.1		ug/L		50	5 - 112
Pyrene	0.64	U	99.4	71.9		ug/L		72	52 - 115
1,2,4-Trichlorobenzene	0.56	U J3	99.4	34.1	J3	ug/L		34	44 - 142
2,4,6-Trichlorophenol	0.81	U	99.4	64.4		ug/L		65	37 - 144
bis (2-chloroisopropyl) ether	0.84	U	99.4	58.0		ug/L		58	36 - 166

MS MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	58		38 - 121
2-Fluorophenol	51		35 - 110
Nitrobenzene-d5	58		44 - 119
Terphenyl-d14	82		10 - 165
2,4,6-Tribromophenol	76		34 - 132

Lab Sample ID: 680-87321-A-1-B MSD

Matrix: Water

Analysis Batch: 267158

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.74	U	92.5	59.7		ug/L		65	47 - 145	3	40
Acenaphthylene	0.79	U	92.5	60.0		ug/L		65	33 - 145	5	40
Anthracene	0.72	U	92.5	58.9		ug/L		64	27 - 133	12	40
Benzidine	42	U J3	92.5	39	U J3	ug/L		0	1 - 200	NC	40
Benzo[a]anthracene	0.93	U	92.5	61.9		ug/L		67	33 - 143	15	40
Benzo[b]fluoranthene	2.5	U	92.5	59.3		ug/L		64	24 - 159	18	40
Benzo[k]fluoranthene	0.89	U	92.5	65.5		ug/L		71	11 - 162	8	40

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-87321-A-1-B MSD

Matrix: Water

Analysis Batch: 267158

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Benzo[g,h,i]perylene	0.88	U	92.5	55.3		ug/L		60	1 - 219	26	40
Benzo[a]pyrene	0.73	U	92.5	60.0		ug/L		65	17 - 163	24	40
Bis(2-chloroethoxy)methane	1.1	U	92.5	64.1		ug/L		69	33 - 184	2	40
Bis(2-chloroethyl)ether	1.1	U	92.5	57.8		ug/L		62	12 - 158	7	40
Bis(2-ethylhexyl) phthalate	1.6	U	92.5	70.7		ug/L		76	8 - 158	11	40
4-Bromophenyl phenyl ether	0.79	U	92.5	61.3		ug/L		66	53 - 127	5	40
Butyl benzyl phthalate	1.2	U	92.5	73.6		ug/L		80	1 - 152	12	40
4-Chloro-3-methylphenol	1.1	U	92.5	61.5		ug/L		66	22 - 147	6	40
2-Chloronaphthalene	0.77	U J3	92.5	56.1		ug/L		61	60 - 118	15	40
2-Chlorophenol	0.89	U	92.5	55.8		ug/L		60	23 - 134	3	40
4-Chlorophenyl phenyl ether	0.80	U	92.5	59.9		ug/L		65	25 - 158	0	40
Chrysene	0.52	U	92.5	61.2		ug/L		66	17 - 168	19	40
Dibenz(a,h)anthracene	0.75	U	92.5	59.4		ug/L		64	1 - 227	21	40
Di-n-butyl phthalate	0.87	U	92.5	69.2		ug/L		75	1 - 118	10	40
1,2-Dichlorobenzene	0.56	U	92.5	50.8		ug/L		55	32 - 129	21	40
1,3-Dichlorobenzene	0.65	U	92.5	48.1		ug/L		52	1 - 172	23	40
1,4-Dichlorobenzene	0.58	U	92.5	49.5		ug/L		54	20 - 124	22	40
3,3'-Dichlorobenzidine	30	U J3	92.5	28	U J3	ug/L		0	1 - 262	NC	40
2,4-Dichlorophenol	1.1	U	92.5	59.7		ug/L		65	39 - 135	0	40
Diethyl phthalate	0.85	U	92.5	69.1		ug/L		75	1 - 114	7	40
2,4-Dimethylphenol	3.9	U	92.5	59.8		ug/L		65	32 - 119	4	40
Dimethyl phthalate	0.96	U	92.5	67.5		ug/L		73	1 - 112	5	40
4,6-Dinitro-2-methylphenol	5.0	U	92.5	72.6		ug/L		78	1 - 181	8	40
2,4-Dinitrophenol	9.9	U	92.5	75.4		ug/L		81	1 - 191	10	40
2,4-Dinitrotoluene	1.2	U	92.5	64.6		ug/L		70	39 - 139	9	40
2,6-Dinitrotoluene	1.1	U	92.5	63.6		ug/L		69	50 - 158	7	40
Di-n-octyl phthalate	1.3	U	92.5	73.3		ug/L		79	4 - 146	12	40
1,2-Diphenylhydrazine	0.85	U	92.5	59.4		ug/L		64	30 - 130	1	40
Fluoranthene	0.70	U	92.5	60.9		ug/L		66	26 - 137	17	40
Fluorene	0.92	U	92.5	59.7		ug/L		65	59 - 121	2	40
Hexachlorobenzene	0.80	U	92.5	57.2		ug/L		62	1 - 152	10	40
Hexachlorobutadiene	0.62	U J3	92.5	43.3	J3	ug/L		47	24 - 116	63	40
Hexachlorocyclopentadiene	9.9	U J3	92.5	17.4	I	ug/L		19	1 - 200	NC	40
Hexachloroethane	0.80	U J3	92.5	43.0	J3	ug/L		46	40 - 113	45	40
Indeno[1,2,3-cd]pyrene	1.1	U	92.5	56.8		ug/L		61	1 - 171	25	40
Isophorone	0.89	U	92.5	52.8		ug/L		57	21 - 196	1	40
Naphthalene	0.69	U	92.5	56.2		ug/L		61	21 - 133	19	40
Nitrobenzene	0.58	U	92.5	57.8		ug/L		62	35 - 180	5	40
2-Nitrophenol	0.73	U	92.5	59.1		ug/L		64	29 - 182	3	40
4-Nitrophenol	9.9	U	92.5	74.9		ug/L		81	1 - 132	7	40
N-Nitrosodimethylamine	9.9	U	92.5	58.7		ug/L		63	10 - 150	2	40
N-Nitrosodiphenylamine	0.90	U	92.5	55.0		ug/L		59	10 - 150	6	40
N-Nitrosodi-n-propylamine	0.73	U	92.5	61.6		ug/L		67	1 - 230	1	40
Pentachlorophenol	1.8	U J3	92.5	73.0		ug/L		79	14 - 176	10	40
Phenanthrene	0.80	U	92.5	60.8		ug/L		66	54 - 120	8	40
Phenol	1.1	U	92.5	50.6		ug/L		55	5 - 112	1	40
Pyrene	0.64	U	92.5	63.0		ug/L		68	52 - 115	13	40
1,2,4-Trichlorobenzene	0.56	U J3	92.5	51.1		ug/L		55	44 - 142	40	40

TestAmerica Tampa

QC Sample Results

Client: Hillshorough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-87321-A-1-B MSD

Matrix: Water

Analysis Batch: 267158

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,6-Trichlorophenol	0.81	U	92.5	61.6		ug/L		67	37 - 144	4	40
bis (2-chloroisopropyl) ether	0.84	U	92.5	62.3		ug/L		67	36 - 166	7	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	66		38 - 121
2-Fluorophenol	57		35 - 110
Nitrobenzene-d5	66		44 - 119
Terphenyl-d14	79		10 - 165
2,4,6-Tribromophenol	75		34 - 132

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-266023/9-A

Matrix: Water

Analysis Batch: 266128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 266023

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0050	U	0.020	0.0050	ug/L		02/12/13 17:07	02/13/13 00:56	1
Ethylene Dibromide	0.0022	U	0.020	0.0022	ug/L		02/12/13 17:07	02/13/13 00:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	92		70 - 130	02/12/13 17:07	02/13/13 00:56	1

Lab Sample ID: LCS 680-266023/10-A

Matrix: Water

Analysis Batch: 266128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 266023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.0912		ug/L		91	70 - 130
Ethylene Dibromide	0.100	0.0863		ug/L		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Pentachloroethane	98		70 - 130

Lab Sample ID: LCSD 680-266023/11-A

Matrix: Water

Analysis Batch: 266128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 266023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.0961		ug/L		96	70 - 130	5	30
Ethylene Dibromide	0.100	0.0959		ug/L		96	70 - 130	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Pentachloroethane	98		70 - 130

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 660-52541-1 MS				Client Sample ID: Leachate Effluent Semi-Annual					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 266128				Prep Batch: 266023					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.0055	U	0.103	0.0976		ug/L		95	70 - 130
Ethylene Dibromide	0.0024	U J3	0.103	0.536	L J3	ug/L		522	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
Pentachloroethane	100		70 - 130						

Lab Sample ID: 660-52541-2 MS				Client Sample ID: Blank Equipment					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 266128				Prep Batch: 266023					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.0053	U	0.105	0.0969		ug/L		92	70 - 130
Ethylene Dibromide	0.0023	U	0.105	0.0768		ug/L		73	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
Pentachloroethane	65	J1	70 - 130						

Method: 508 - Chlorinated Pesticides & PCBs (GC)

Lab Sample ID: MB 680-265947/9-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 266239				Prep Batch: 265947					
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.12	U	0.25	0.12	ug/L		02/12/13 11:05	02/14/13 05:17	1
Endrin	0.0022	U	0.025	0.0022	ug/L		02/12/13 11:05	02/14/13 05:17	1
gamma-BHC (Lindane)	0.0024	U	0.025	0.0024	ug/L		02/12/13 11:05	02/14/13 05:17	1
Heptachlor	0.0063	U	0.025	0.0063	ug/L		02/12/13 11:05	02/14/13 05:17	1
Heptachlor epoxide	0.0017	U	0.025	0.0017	ug/L		02/12/13 11:05	02/14/13 05:17	1
Methoxychlor	0.0078	U	0.025	0.0078	ug/L		02/12/13 11:05	02/14/13 05:17	1
Polychlorinated biphenyls, Total	0.046	U	0.50	0.046	ug/L		02/12/13 11:05	02/14/13 05:17	1
Toxaphene	0.058	U	2.5	0.058	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1016	0.071	U	0.50	0.071	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1221	0.12	U	0.50	0.12	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1232	0.073	U	0.50	0.073	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1242	0.065	U	0.50	0.065	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1248	0.046	U	0.50	0.046	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1254	0.099	U	0.50	0.099	ug/L		02/12/13 11:05	02/14/13 05:17	1
PCB-1260	0.085	U	0.50	0.085	ug/L		02/12/13 11:05	02/14/13 05:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
DCB Decachlorobiphenyl	105		70 - 130	02/12/13 11:05	02/14/13 05:17	1			
Tetrachloro-m-xylene	86		70 - 130	02/12/13 11:05	02/14/13 05:17	1			

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 508 - Chlorinated Pesticides & PCBs (GC) (Continued)

Lab Sample ID: LCS 680-265947/10-A

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.0501	0.0548		ug/L		109	58 - 118
gamma-BHC (Lindane)	0.0501	0.0488		ug/L		97	59 - 119
Heptachlor	0.0501	0.0402		ug/L		80	68 - 128
Heptachlor epoxide	0.0501	0.0453		ug/L		90	57 - 117
Methoxychlor	0.0501	0.0544		ug/L		109	75 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	92		70 - 130
Tetrachloro-m-xylene	76		70 - 130

Lab Sample ID: LCS 680-265947/14-A

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5.00	3.77		ug/L		75	70 - 130
PCB-1260	5.00	4.15		ug/L		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	89		70 - 130
Tetrachloro-m-xylene	79		70 - 130

Lab Sample ID: 500-54357-G-1-A MS

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 265947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.0022		0.0485	0.0487		ug/L		100	53 - 123
gamma-BHC (Lindane)	0.0024		0.0485	0.0446		ug/L		92	54 - 124
Heptachlor	0.0062		0.0485	0.0320		ug/L		66	63 - 133
Heptachlor epoxide	0.0017		0.0485	0.0398		ug/L		82	52 - 122
Methoxychlor	0.0077		0.0485	0.0543		ug/L		112	70 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	50	J1	70 - 130
Tetrachloro-m-xylene	78		70 - 130

Lab Sample ID: 500-54357-G-1-B MSD

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.0022		0.0483	0.0479		ug/L		99	53 - 123	2	20
gamma-BHC (Lindane)	0.0024		0.0483	0.0464		ug/L		96	54 - 124	4	20
Heptachlor	0.0062		0.0483	0.0313		ug/L		65	63 - 133	2	20
Heptachlor epoxide	0.0017		0.0483	0.0384		ug/L		80	52 - 122	3	20
Methoxychlor	0.0077		0.0483	0.0547		ug/L		113	70 - 140	1	20

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 508 - Chlorinated Pesticides & PCBs (GC) (Continued)

Lab Sample ID: 500-54357-G-1-B MSD

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 265947

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	41	J1	70 - 130
Tetrachloro-m-xylene	79		70 - 130

Lab Sample ID: 660-52541-1 MS

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Prep Batch: 265947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.069	U J3	4.89	5.77		ug/L		118	65 - 135
PCB-1260	0.083	U	4.89	4.55		ug/L		93	65 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	51	J1	70 - 130
Tetrachloro-m-xylene	78		70 - 130

Lab Sample ID: 660-52541-1 MSD

Matrix: Water

Analysis Batch: 266239

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Prep Batch: 265947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD Limit
PCB-1016	0.069	U J3	4.86	4.37	J3	ug/L		90	65 - 135	28 20
PCB-1260	0.083	U	4.86	4.16		ug/L		86	65 - 135	9 20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	64	J1	70 - 130
Tetrachloro-m-xylene	70		70 - 130

Method: 515.1 - Herbicides (GC)

Lab Sample ID: MB 680-265564/9-A

Matrix: Water

Analysis Batch: 266564

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 265564

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.037	U	0.50	0.037	ug/L		02/08/13 07:54	02/15/13 00:51	1
Dalapon	1.0	U	10	1.0	ug/L		02/08/13 07:54	02/15/13 00:51	1
Dinoseb	0.15	U	3.0	0.15	ug/L		02/08/13 07:54	02/15/13 00:51	1
Pentachlorophenol	0.038	U	0.20	0.038	ug/L		02/08/13 07:54	02/15/13 00:51	1
Picloram	0.077	U	0.50	0.077	ug/L		02/08/13 07:54	02/15/13 00:51	1
Silvex (2,4,5-TP)	0.060	U	0.50	0.060	ug/L		02/08/13 07:54	02/15/13 00:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	93		70 - 130	02/08/13 07:54	02/15/13 00:51	1

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 515.1 - Herbicides (GC) (Continued)

Lab Sample ID: LCS 680-265564/10-A

Matrix: Water

Analysis Batch: 266564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 265564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	2.00	1.95		ug/L		97	49 - 214
Dalapon	10.0	8.28	I	ug/L		83	40 - 160
Dinoseb	2.00	1.38	I	ug/L		69	10 - 121
Pentachlorophenol	1.34	1.31		ug/L		98	36 - 223
Picloram	2.00	1.45		ug/L		72	45 - 138
Silvex (2,4,5-TP)	2.00	1.79		ug/L		89	42 - 226

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	116		70 - 130

Lab Sample ID: 660-52541-1 MS

Matrix: Water

Analysis Batch: 266732

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Prep Batch: 265564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.037	U	2.00	3.65		ug/L		183	49 - 214
Dalapon	1.0	U	10.0	7.08	I	ug/L		71	40 - 160
Dinoseb	0.15	U J3	2.00	2.29	I	ug/L		115	10 - 121
Pentachlorophenol	0.038	U	1.34	0.920		ug/L		69	36 - 223
Picloram	0.077	U J3	2.00	5.09	L J3	ug/L		255	45 - 138
Silvex (2,4,5-TP)	0.060	U	2.00	2.50		ug/L		125	42 - 226

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	529	J1	70 - 130

Lab Sample ID: 660-52541-1 MSD

Matrix: Water

Analysis Batch: 266732

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Prep Batch: 265564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4-D	0.037	U	2.00	4.24		ug/L		212	49 - 214	15	30
Dalapon	1.0	U	10.0	7.69	I	ug/L		77	40 - 160	8	30
Dinoseb	0.15	U J3	2.00	2.55	I J3	ug/L		127	10 - 121	11	30
Pentachlorophenol	0.038	U	1.34	1.19		ug/L		89	36 - 223	25	30
Picloram	0.077	U J3	2.00	5.91	L J3	ug/L		296	45 - 138	15	30
Silvex (2,4,5-TP)	0.060	U	2.00	3.05		ug/L		153	42 - 226	20	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	587	J1	70 - 130

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 608 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 660-134314/1-A

Matrix: Water

Analysis Batch: 134633

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 134314

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.0041	U	0.010	0.0041	ug/L		02/11/13 09:28	02/13/13 11:28	1
4,4'-DDE	0.0055	U	0.010	0.0055	ug/L		02/11/13 09:28	02/13/13 11:28	1
4,4'-DDT	0.0032	U	0.010	0.0032	ug/L		02/11/13 09:28	02/13/13 11:28	1
Aldrin	0.0018	U	0.010	0.0018	ug/L		02/11/13 09:28	02/13/13 11:28	1
alpha-BHC	0.0028	U	0.010	0.0028	ug/L		02/11/13 09:28	02/13/13 11:28	1
beta-BHC	0.0027	U	0.010	0.0027	ug/L		02/11/13 09:28	02/13/13 11:28	1
Chlordane (technical)	0.057	U	0.50	0.057	ug/L		02/11/13 09:28	02/13/13 11:28	1
delta-BHC	0.0028	U	0.010	0.0028	ug/L		02/11/13 09:28	02/13/13 11:28	1
Dieldrin	0.0014	U	0.010	0.0014	ug/L		02/11/13 09:28	02/13/13 11:28	1
Endosulfan I	0.0034	U	0.010	0.0034	ug/L		02/11/13 09:28	02/13/13 11:28	1
Endosulfan II	0.0033	U	0.010	0.0033	ug/L		02/11/13 09:28	02/13/13 11:28	1
Endosulfan sulfate	0.0030	U	0.010	0.0030	ug/L		02/11/13 09:28	02/13/13 11:28	1
Endrin	0.0031	U	0.010	0.0031	ug/L		02/11/13 09:28	02/13/13 11:28	1
Endrin aldehyde	0.0032	U	0.010	0.0032	ug/L		02/11/13 09:28	02/13/13 11:28	1
gamma-BHC (Lindane)	0.0026	U	0.010	0.0026	ug/L		02/11/13 09:28	02/13/13 11:28	1
Heptachlor	0.0031	U	0.010	0.0031	ug/L		02/11/13 09:28	02/13/13 11:28	1
Heptachlor epoxide	0.0031	U	0.010	0.0031	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1016	0.26	U	0.50	0.26	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1221	0.15	U	0.50	0.15	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1232	0.38	U	0.50	0.38	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1242	0.077	U	0.50	0.077	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1248	0.070	U	0.50	0.070	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1254	0.12	U	0.50	0.12	ug/L		02/11/13 09:28	02/13/13 11:28	1
PCB-1260	0.10	U	0.50	0.10	ug/L		02/11/13 09:28	02/13/13 11:28	1
Toxaphene	0.72	U	3.0	0.72	ug/L		02/11/13 09:28	02/13/13 11:28	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	85		30 - 150	02/11/13 09:28	02/13/13 11:28	1
Tetrachloro-m-xylene	59		30 - 150	02/11/13 09:28	02/13/13 11:28	1

Lab Sample ID: LCS 660-134314/2-A

Matrix: Water

Analysis Batch: 134633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 134314

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
4,4'-DDD	0.500	0.519		ug/L		104	31 - 141
4,4'-DDE	0.500	0.422		ug/L		84	30 - 145
4,4'-DDT	0.500	0.330		ug/L		66	25 - 160
Aldrin	0.500	0.341		ug/L		68	42 - 122
alpha-BHC	0.500	0.456		ug/L		91	37 - 134
beta-BHC	0.500	0.416		ug/L		83	17 - 147
delta-BHC	0.500	0.434		ug/L		87	19 - 140
Dieldrin	0.500	0.449		ug/L		90	36 - 146
Endosulfan I	0.500	0.344		ug/L		69	45 - 153
Endosulfan II	0.500	0.383		ug/L		77	0 - 202
Endosulfan sulfate	0.500	0.469		ug/L		94	26 - 144
Endrin	0.500	0.492		ug/L		98	30 - 147
Endrin aldehyde	0.500	0.475		ug/L		95	49 - 169

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 660-134314/2-A

Matrix: Water

Analysis Batch: 134633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 134314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	0.500	0.427		ug/L		85	32 - 127
Heptachlor	0.500	0.365		ug/L		73	34 - 111
Heptachlor epoxide	0.500	0.436		ug/L		87	37 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	97		30 - 150
Tetrachloro-m-xylene	65		30 - 150

Lab Sample ID: 660-52585-A-1-B MSD

Matrix: Water

Analysis Batch: 134633

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 134314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.0039	U	0.495	0.489		ug/L		99	31 - 141	3	25
4,4'-DDE	0.0053	U	0.495	0.417		ug/L		84	30 - 145	2	25
4,4'-DDT	0.0031	U	0.495	0.327		ug/L		66	25 - 160	14	40
Aldrin	0.0017	U	0.495	0.376		ug/L		76	42 - 122	2	40
alpha-BHC	0.0033	I	0.495	0.433		ug/L		87	37 - 134	7	28
beta-BHC	0.0026	U	0.495	0.387		ug/L		78	17 - 147	4	25
delta-BHC	0.0027	U	0.495	0.408		ug/L		82	19 - 140	5	25
Dieldrin	0.0013	U	0.495	0.433		ug/L		87	36 - 146	5	35
Endosulfan I	0.0033	U	0.495	0.329		ug/L		67	45 - 153	6	25
Endosulfan II	0.0032	U	0.495	0.359		ug/L		73	0 - 202	4	22
Endosulfan sulfate	0.0029	U	0.495	0.448		ug/L		91	26 - 144	5	25
Endrin	0.0030	U	0.495	0.464		ug/L		94	30 - 147	4	66
Endrin aldehyde	0.0031	U	0.495	0.448		ug/L		91	49 - 169	3	58
gamma-BHC (Lindane)	0.0025	U	0.495	0.402		ug/L		81	32 - 127	4	44
Heptachlor	0.0030	U	0.495	0.385		ug/L		78	34 - 111	3	43
Heptachlor epoxide	0.0030	U	0.495	0.418		ug/L		84	37 - 142	6	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	94		30 - 150
Tetrachloro-m-xylene	70		30 - 150

Lab Sample ID: 660-52585-B-1-D MS

Matrix: Water

Analysis Batch: 134633

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 134314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0039	U	0.495	0.472		ug/L		95	31 - 141
4,4'-DDE	0.0053	U	0.495	0.407		ug/L		82	30 - 145
4,4'-DDT	0.0031	U	0.495	0.284		ug/L		57	25 - 160
Aldrin	0.0017	U	0.495	0.368		ug/L		74	42 - 122
alpha-BHC	0.0033	I	0.495	0.406		ug/L		81	37 - 134
beta-BHC	0.0026	U	0.495	0.370		ug/L		75	17 - 147
delta-BHC	0.0027	U	0.495	0.389		ug/L		78	19 - 140
Dieldrin	0.0013	U	0.495	0.410		ug/L		83	36 - 146
Endosulfan I	0.0033	U	0.495	0.311		ug/L		63	45 - 153

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: 660-52585-B-1-D MS

Matrix: Water

Analysis Batch: 134633

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 134314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	0.0032	U	0.495	0.346		ug/L		70	0 - 202
Endosulfan sulfate	0.0029	U	0.495	0.426		ug/L		86	26 - 144
Endrin	0.0030	U	0.495	0.446		ug/L		90	30 - 147
Endrin aldehyde	0.0031	U	0.495	0.434		ug/L		88	49 - 169
gamma-BHC (Lindane)	0.0025	U	0.495	0.386		ug/L		78	32 - 127
Heptachlor	0.0030	U	0.495	0.372		ug/L		75	34 - 111
Heptachlor epoxide	0.0030	U	0.495	0.395		ug/L		80	37 - 142
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl	88		30 - 150						
Tetrachloro-m-xylene	66		30 - 150						

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 680-266009/9

Matrix: Water

Analysis Batch: 266009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Oil Fac
Oxamyl	0.35	U	2.5	0.35	ug/L			02/12/13 00:51	1
Carbofuran	0.43	U	2.5	0.43	ug/L			02/12/13 00:51	1

Lab Sample ID: LCS 680-266009/10

Matrix: Water

Analysis Batch: 266009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxamyl	10.0	10.7		ug/L		107	80 - 120
Carbofuran	10.0	11.9		ug/L		119	80 - 120

Lab Sample ID: LCSD 680-266009/11

Matrix: Water

Analysis Batch: 266009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oxamyl	10.0	9.75		ug/L		97	80 - 120	10	20
Carbofuran	10.0	11.0		ug/L		110	80 - 120	8	20

Lab Sample ID: 510-88621-F-1 MS

Matrix: Water

Analysis Batch: 266009

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxamyl	0.35	U	10.0	9.55		ug/L		95	65 - 135
Carbofuran	0.43	U	10.0	10.9		ug/L		109	65 - 135

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: 510-88621-F-1 MSD

Matrix: Water

Analysis Batch: 266009

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oxamyl	0.35	U	10.0	9.50		ug/L		95	65 - 135	0	35
Carbofuran	0.43	U	10.0	10.4		ug/L		104	65 - 135	5	35

Method: 547 - Glyphosate (DAI HPLC)

Lab Sample ID: MB 680-265603/8

Matrix: Water

Analysis Batch: 265603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Glyphosate	5.0	U	25	5.0	ug/L			02/07/13 08:50	1

Lab Sample ID: LCS 680-265603/9

Matrix: Water

Analysis Batch: 265603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Glyphosate	201	185		ug/L		92	70 - 130

Lab Sample ID: LCSD 680-265603/10

Matrix: Water

Analysis Batch: 265603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Glyphosate	201	191		ug/L		95	70 - 130	3	30

Lab Sample ID: 680-87135-B-1 MS

Matrix: Water

Analysis Batch: 265603

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Glyphosate	50	U	201	202		ug/L		101	70 - 130

Lab Sample ID: 680-87135-B-1 MSD

Matrix: Water

Analysis Batch: 265603

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Glyphosate	50	U	201	205		ug/L		102	70 - 130	1	30

Method: 549.2 - Diquat and Paraquat (HPLC)

Lab Sample ID: MB 680-265583/8-A

Matrix: Water

Analysis Batch: 265881

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 265583

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	0.40	U	2.0	0.40	ug/L		02/08/13 10:02	02/08/13 17:20	1

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 549.2 - Diquat and Paraquat (HPLC) (Continued)

Lab Sample ID: LCS 680-265583/9-A
Matrix: Water
Analysis Batch: 265881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diquat	20.0	18.5		ug/L		93	70 - 130

Lab Sample ID: LCSD 680-265583/10-A
Matrix: Water
Analysis Batch: 265881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 265583

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diquat	20.0	17.7		ug/L		88	70 - 130	5	30

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 660-134424/1-A
Matrix: Water
Analysis Batch: 134431

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 134424

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	200	50	ug/L		02/13/13 10:16	02/13/13 18:42	1
Arsenic	4.0	U	10	4.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Barium	2.0	U	10	2.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Beryllium	0.50	U	2.0	0.50	ug/L		02/13/13 10:16	02/13/13 18:42	1
Cadmium	1.0	U	4.0	1.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Chromium	2.0	U	10	2.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Cobalt	2.0	U	10	2.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Copper	2.9	U	10	2.9	ug/L		02/13/13 10:16	02/13/13 18:42	1
Iron	50	U	200	50	ug/L		02/13/13 10:16	02/13/13 18:42	1
Manganese	1.0	U	4.0	1.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Nickel	2.0	U	8.0	2.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Silver	1.0	U	4.0	1.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Sodium	0.31	U	0.50	0.31	mg/L		02/13/13 10:16	02/13/13 18:42	1
Zinc	5.0	U	20	5.0	ug/L		02/13/13 10:16	02/13/13 18:42	1
Vanadium	2.5	U	10	2.5	ug/L		02/13/13 10:16	02/13/13 18:42	1

Lab Sample ID: LCS 660-134424/2-A
Matrix: Water
Analysis Batch: 134431

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 134424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1000	1040		ug/L		104	85 - 115
Arsenic	1000	966		ug/L		97	85 - 115
Barium	1000	1050		ug/L		105	85 - 115
Beryllium	1000	1020		ug/L		102	85 - 115
Cadmium	1000	1000		ug/L		100	85 - 115
Chromium	1000	1030		ug/L		103	85 - 115
Cobalt	1000	1020		ug/L		102	85 - 115
Copper	1000	1000		ug/L		100	85 - 115
Iron	1000	1020		ug/L		102	85 - 115
Manganese	1000	1050		ug/L		105	85 - 115
Nickel	1000	1020		ug/L		102	85 - 115

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 660-134424/2-A

Matrix: Water

Analysis Batch: 134431

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	1000	1020		ug/L		102	85 - 115
Sodium	10.0	9.84		mg/L		98	85 - 115
Zinc	1000	1030		ug/L		103	85 - 115
Vanadium	1000	1030		ug/L		103	85 - 115

Lab Sample ID: LCSD 660-134424/3-A

Matrix: Water

Analysis Batch: 134431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 134424

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	1000	1040		ug/L		104	85 - 115	0	20
Arsenic	1000	983		ug/L		98	85 - 115	2	20
Barium	1000	1060		ug/L		106	85 - 115	1	20
Beryllium	1000	1020		ug/L		102	85 - 115	0	20
Cadmium	1000	1010		ug/L		101	85 - 115	1	20
Chromium	1000	1040		ug/L		104	85 - 115	1	20
Cobalt	1000	1030		ug/L		103	85 - 115	1	20
Copper	1000	1010		ug/L		101	85 - 115	0	20
Iron	1000	1030		ug/L		103	85 - 115	1	20
Manganese	1000	1060		ug/L		106	85 - 115	1	20
Nickel	1000	1030		ug/L		103	85 - 115	1	20
Silver	1000	1030		ug/L		103	85 - 115	1	20
Sodium	10.0	9.88		mg/L		99	85 - 115	0	20
Zinc	1000	1040		ug/L		104	85 - 115	1	20
Vanadium	1000	1040		ug/L		104	85 - 115	1	20

Lab Sample ID: 640-42276-A-21-B MS

Matrix: Water

Analysis Batch: 134431

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 134424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	140	I	1000	1200		ug/L		105	85 - 115
Arsenic	4.0	U	1000	976		ug/L		98	85 - 115
Barium	3.5	I	1000	1060		ug/L		105	85 - 115
Beryllium	0.50	U	1000	1030		ug/L		103	85 - 115
Cadmium	1.0	U	1000	1010		ug/L		101	85 - 115
Chromium	2.0	U	1000	1030		ug/L		103	85 - 115
Cobalt	2.0	U	1000	1020		ug/L		102	85 - 115
Copper	2.9	U	1000	1010		ug/L		101	85 - 115
Iron	180	I	1000	1210		ug/L		104	85 - 115
Manganese	2.2	I	1000	1050		ug/L		105	85 - 115
Nickel	2.0	U	1000	1020		ug/L		102	85 - 115
Silver	1.0	U	1000	1020		ug/L		102	85 - 115
Sodium	5.9		10.0	16.2		mg/L		102	85 - 115
Zinc	5.0	U	1000	1030		ug/L		103	85 - 115
Vanadium	2.5	U	1000	1030		ug/L		103	85 - 115

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 640-42276-A-21-C MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Water						Prep Type: Total Recoverable					
Analysis Batch: 134431						Prep Batch: 134424					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	140	I	1000	1210		ug/L		107	85 - 115	1	20
Arsenic	4.0	U	1000	988		ug/L		99	85 - 115	1	20
Barium	3.5	I	1000	1080		ug/L		107	85 - 115	2	20
Beryllium	0.50	U	1000	1030		ug/L		103	85 - 115	0	20
Cadmium	1.0	U	1000	1020		ug/L		102	85 - 115	1	20
Chromium	2.0	U	1000	1040		ug/L		104	85 - 115	1	20
Cobalt	2.0	U	1000	1030		ug/L		103	85 - 115	1	20
Copper	2.9	U	1000	1010		ug/L		101	85 - 115	0	20
Iron	180	I	1000	1230		ug/L		106	85 - 115	1	20
Manganese	2.2	I	1000	1060		ug/L		106	85 - 115	1	20
Nickel	2.0	U	1000	1030		ug/L		103	85 - 115	1	20
Silver	1.0	U	1000	1030		ug/L		103	85 - 115	0	20
Sodium	5.9		10.0	16.2		mg/L		103	85 - 115	0	20
Zinc	5.0	U	1000	1040		ug/L		104	85 - 115	1	20
Vanadium	2.5	U	1000	1050		ug/L		105	85 - 115	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-266291/1-A						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266613						Prep Batch: 266291					
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Antimony	0.40	U	1.0	0.40	ug/L		02/14/13 16:21	02/15/13 18:34	1		

Lab Sample ID: MB 680-266291/1-A						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266912						Prep Batch: 266291					
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Lead	0.060	U	0.30	0.060	ug/L		02/14/13 16:21	02/20/13 19:28	1		
Thallium	0.10	U	0.20	0.10	ug/L		02/14/13 16:21	02/20/13 19:28	1		
Selenium	0.58	U	2.0	0.58	ug/L		02/14/13 16:21	02/20/13 19:28	1		

Lab Sample ID: LCS 680-266291/2-A						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266613						Prep Batch: 266291					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Antimony	20.0	21.7		ug/L		109	85 - 115				

Lab Sample ID: LCS 680-266291/2-A						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266912						Prep Batch: 266291					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Lead	20.0	22.1		ug/L		110	85 - 115				
Thallium	16.0	17.3		ug/L		108	85 - 115				
Selenium	40.0	42.6		ug/L		107	85 - 115				

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 660-52541-2 MS

Matrix: Water

Analysis Batch: 266613

Client Sample ID: Blank Equipment

Prep Type: Total/NA

Prep Batch: 266291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.40	U	20.0	21.5		ug/L		108	70 - 130

Lab Sample ID: 660-52541-2 MS

Matrix: Water

Analysis Batch: 266912

Client Sample ID: Blank Equipment

Prep Type: Total/NA

Prep Batch: 266291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.060	U	20.0	21.8		ug/L		109	70 - 130
Thallium	0.10	U	16.0	17.2		ug/L		107	70 - 130
Selenium	0.58	U	40.0	42.8		ug/L		107	70 - 130

Lab Sample ID: 660-52541-2 MSD

Matrix: Water

Analysis Batch: 266613

Client Sample ID: Blank Equipment

Prep Type: Total/NA

Prep Batch: 266291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.40	U	20.0	20.9		ug/L		105	70 - 130	3	20

Lab Sample ID: 660-52541-2 MSD

Matrix: Water

Analysis Batch: 266912

Client Sample ID: Blank Equipment

Prep Type: Total/NA

Prep Batch: 266291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.060	U	20.0	22.0		ug/L		110	70 - 130	1	20
Thallium	0.10	U	16.0	17.3		ug/L		108	70 - 130	1	20
Selenium	0.58	U	40.0	43.0		ug/L		107	70 - 130	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 660-134373/10-A

Matrix: Water

Analysis Batch: 134391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 134373

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072	U	0.20	0.072	ug/L		02/12/13 10:58	02/12/13 13:09	1

Lab Sample ID: LCS 660-134373/11-A

Matrix: Water

Analysis Batch: 134391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 134373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.937		ug/L		94	85 - 115

Lab Sample ID: 660-52535-A-1-B MS

Matrix: Water

Analysis Batch: 134391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 134373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.072	U	1.00	0.917		ug/L		92	85 - 115

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 660-52535-A-1-C MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 134391						Prep Batch: 134373					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.072	U	1.00	0.972		ug/L		97	85 - 115	6	20

Method: 2150B - Odor (Threshold Odor)

Lab Sample ID: MB 660-134192/1						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 134192											
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Odor	1.0	U	1.0	1.0	T.O.N.			02/06/13 16:20			1

Lab Sample ID: 660-52541-1 DU					Client Sample ID: Leachate Effluent Semi-Annual				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 134192									
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
Odor	4.0		4.00		T.O.N.			0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-266703/8						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266703											
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	0.20	U	1.0	0.20	mg/L			02/18/13 11:26			1
Fluoride	0.020	U	0.20	0.020	mg/L			02/18/13 11:26			1
Sulfate	0.50	U	1.0	0.50	mg/L			02/18/13 11:26			1

Lab Sample ID: LCS 680-266703/9						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266703											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Chloride	10.0	9.99		mg/L		100	90 - 110				
Fluoride	2.00	2.15		mg/L		107	90 - 110				
Sulfate	10.0	10.7		mg/L		107	90 - 110				

Lab Sample ID: LCSD 680-266703/10						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 266703											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit		
Chloride	10.0	9.99		mg/L		100	90 - 110	0	30		
Fluoride	2.00	2.15		mg/L		107	90 - 110	0	30		
Sulfate	10.0	10.7		mg/L		107	90 - 110	0	30		

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-52541-1 MS

Matrix: Water

Analysis Batch: 266703

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3200		1000	4240		mg/L		106	90 - 110
Fluoride	2.0		200	213		mg/L		106	90 - 110
Sulfate	99		1000	1100		mg/L		100	90 - 110

Lab Sample ID: 660-52541-1 MSD

Matrix: Water

Analysis Batch: 266703

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3200		1000	4220		mg/L		104	90 - 110	0	30
Fluoride	2.0		200	227	J3	mg/L		113	90 - 110	7	30
Sulfate	99		1000	1170		mg/L		107	90 - 110	6	30

Lab Sample ID: MB 680-266734/2

Matrix: Water

Analysis Batch: 266734

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Sulfate	0.50	U	1.0	0.50	mg/L			02/19/13 11:05	1

Lab Sample ID: LCS 680-266734/3

Matrix: Water

Analysis Batch: 266734

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-266734/4

Matrix: Water

Analysis Batch: 266734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	30

Lab Sample ID: 660-52541-1 MS

Matrix: Water

Analysis Batch: 266734

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100		40.0	142		mg/L		98	90 - 110

Lab Sample ID: 660-52541-1 MSD

Matrix: Water

Analysis Batch: 266734

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100		40.0	139		mg/L		90	90 - 110	2	30

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-265594/1-A
Matrix: Water
Analysis Batch: 265676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 265594

Analyte	MB MB Result Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	0.0025 U	0.010	0.0025	mg/L		02/08/13 10:00	02/08/13 14:20	1

Lab Sample ID: LCS 680-265594/2-A
Matrix: Water
Analysis Batch: 265676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265594

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide	0.0500	0.0527	mg/L		105	90 - 110

Lab Sample ID: 680-87262-B-1-B MS
Matrix: Water
Analysis Batch: 265676

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 265594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide	0.0025	U	0.0500	0.0528	mg/L		106	90 - 110

Lab Sample ID: 680-87262-B-1-C MSD
Matrix: Water
Analysis Batch: 265676

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 265594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD Result Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cyanide	0.0025	U	0.0500	0.0506	mg/L		101	90 - 110	4	20

Lab Sample ID: 660-52534-B-5-B DU
Matrix: Water
Analysis Batch: 265676

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 265594

Analyte	Sample Result	Sample Qualifier	DU DU Result Qualifier	Unit	D	RPD	Limit
Cyanide	0.0025	U	0.0025 U	mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-134249/5
Matrix: Water
Analysis Batch: 134249

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

Analyte	MB MB Result Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10 U	0.50	0.10	mg/L			02/08/13 06:06	1
Nitrite as N	0.10 U	0.50	0.10	mg/L			02/08/13 06:06	1
Nitrate as N	0.10 U	0.50	0.10	mg/L			02/08/13 06:06	1

Lab Sample ID: LCS 660-134249/6
Matrix: Water
Analysis Batch: 134249

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

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.974	mg/L		97	90 - 110
Nitrite as N	0.500	0.499	mg/L		100	90 - 110

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 660-52536-H-2 MS

Matrix: Water

Analysis Batch: 134249

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	1.05		mg/L		105	90 - 110
Nitrite as N	0.10	U	0.500	0.507		mg/L		101	90 - 110

Lab Sample ID: 660-52536-H-2 MSD

Matrix: Water

Analysis Batch: 134249

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	1.03		mg/L		103	90 - 110	2	30
Nitrite as N	0.10	U	0.500	0.494	I	mg/L		99	90 - 110	3	30

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-266453/1-A

Matrix: Water

Analysis Batch: 266493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 266453

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Phenolics, Total Recoverable	0.025	U	0.050	0.025	mg/L		02/15/13 10:45	02/16/13 15:02	1

Lab Sample ID: LCS 680-266453/2-A

Matrix: Water

Analysis Batch: 266493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 266453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.250	0.301		mg/L		120	75 - 125

Lab Sample ID: 660-52632-L-1-B MS

Matrix: Water

Analysis Batch: 266493

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 266453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.050		0.200	0.258		mg/L		104	75 - 125

Lab Sample ID: 660-52632-L-1-C MSD

Matrix: Water

Analysis Batch: 266493

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 266453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	0.050		0.200	0.260		mg/L		105	75 - 125	1	30

Lab Sample ID: 680-87377-D-2-B DU

Matrix: Water

Analysis Batch: 266493

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 266453

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phenolics, Total Recoverable	0.025	U	0.025	U	mg/L		NC	30

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 660-134247/4

Matrix: Water

Analysis Batch: 134247

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	5.0	U	5.0	5.0	PCU			02/08/13 06:50	1

Lab Sample ID: LCS 660-134247/5

Matrix: Water

Analysis Batch: 134247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Color	30.0	30.0		PCU		100	90 - 110

Lab Sample ID: 660-52536-J-4 DU

Matrix: Water

Analysis Batch: 134247

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color	35		35.0		PCU		0	20

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

Lab Sample ID: MB 660-134491/1

Matrix: Water

Analysis Batch: 134491

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			02/14/13 15:16	1

Lab Sample ID: LCS 660-134491/2

Matrix: Water

Analysis Batch: 134491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10000	9820		mg/L		98	80 - 120

Lab Sample ID: 640-42234-A-3 DU

Matrix: Water

Analysis Batch: 134491

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	590		567		mg/L		3	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 660-134227/1

Matrix: Water

Analysis Batch: 134227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	6.00	6.000		SU		100	98 - 102

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 660-52519-A-1 DU

Matrix: Water

Analysis Batch: 134227

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.39		7.450		SU		0.8	20

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 660-134273/1

Matrix: Water

Analysis Batch: 134273

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	0.050	U	0.10	0.050	mg/l LAS MW 340			02/08/13 10:10	1

Lab Sample ID: LCS 660-134273/2

Matrix: Water

Analysis Batch: 134273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MBAS	0.500	0.496		mg/l LAS MW 340		99	80 - 120

Lab Sample ID: 660-52541-1 MS

Matrix: Water

Analysis Batch: 134273

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
MBAS	0.36	J3	0.500	0.716	J3	mg/l LAS MW 340		71	80 - 120

Lab Sample ID: 660-52541-1 MSD

Matrix: Water

Analysis Batch: 134273

Client Sample ID: Leachate Effluent Semi-Annual

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MBAS	0.36	J3	0.500	0.707	J3	mg/l LAS MW 340		69	80 - 120	1	30

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

GC/MS VOA

Analysis Batch: 134218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52537-A-1 DU	Duplicate	Total/NA	Water	624	
660-52537-D-2 MS	Matrix Spike	Total/NA	Water	624	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	624	
660-52541-2	Blank Equipment	Total/NA	Water	624	
660-52541-3	Blank Travel	Total/NA	Water	624	
LCS 660-134218/5	Lab Control Sample	Total/NA	Water	624	
MB 660-134218/7	Method Blank	Total/NA	Water	624	

Analysis Batch: 266081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	524.2	
660-52541-2	Blank Equipment	Total/NA	Water	524.2	
LCS 680-266081/3	Lab Control Sample	Total/NA	Water	524.2	
LCS 680-266081/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 680-266081/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 265466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	525.2	
660-52541-2	Blank Equipment	Total/NA	Water	525.2	
680-87176-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	
680-87176-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	
LCS 680-265466/14-A	Lab Control Sample	Total/NA	Water	525.2	
MB 680-265466/13-A	Method Blank	Total/NA	Water	525.2	

Prep Batch: 265634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
510-88621-I-1-A MS	Matrix Spike	Total/NA	Water	548.1	
510-88621-I-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	548.1	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	548.1	
660-52541-2	Blank Equipment	Total/NA	Water	548.1	
LCS 680-265634/9-A	Lab Control Sample	Total/NA	Water	548.1	
MB 680-265634/8-A	Method Blank	Total/NA	Water	548.1	

Prep Batch: 265792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	625	
660-52541-2	Blank Equipment	Total/NA	Water	625	
680-87321-A-1-A MS	Matrix Spike	Total/NA	Water	625	
680-87321-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625	
LCS 680-265792/6-A	Lab Control Sample	Total/NA	Water	625	
MB 680-265792/5-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 265919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
510-88621-I-1-A MS	Matrix Spike	Total/NA	Water	548.1	265634
510-88621-I-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	548.1	265634
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	548.1	265634

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

GC/MS Semi VOA (Continued)

Analysis Batch: 265919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-2	Blank Equipment	Total/NA	Water	548.1	265634
LCS 680-265634/9-A	Lab Control Sample	Total/NA	Water	548.1	265634
MB 680-265634/8-A	Method Blank	Total/NA	Water	548.1	265634

Analysis Batch: 266165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	525.2	265466
660-52541-2	Blank Equipment	Total/NA	Water	525.2	265466
680-87176-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	265466
680-87176-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	265466
LCS 680-265466/14-A	Lab Control Sample	Total/NA	Water	525.2	265466
MB 680-265466/13-A	Method Blank	Total/NA	Water	525.2	265466

Analysis Batch: 266889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	625	265792
660-52541-2	Blank Equipment	Total/NA	Water	625	265792
LCS 680-265792/6-A	Lab Control Sample	Total/NA	Water	625	265792
MB 680-265792/5-A	Method Blank	Total/NA	Water	625	265792

Analysis Batch: 267158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-87321-A-1-A MS	Matrix Spike	Total/NA	Water	625	265792
680-87321-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625	265792

GC Semi VOA

Prep Batch: 134314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	608	
660-52541-2	Blank Equipment	Total/NA	Water	608	
660-52585-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	608	
660-52585-B-1-D MS	Matrix Spike	Total/NA	Water	608	
LCS 660-134314/2-A	Lab Control Sample	Total/NA	Water	608	
MB 660-134314/1-A	Method Blank	Total/NA	Water	608	

Analysis Batch: 134633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	608	134314
660-52541-2	Blank Equipment	Total/NA	Water	608	134314
660-52585-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	608	134314
660-52585-B-1-D MS	Matrix Spike	Total/NA	Water	608	134314
LCS 660-134314/2-A	Lab Control Sample	Total/NA	Water	608	134314
MB 660-134314/1-A	Method Blank	Total/NA	Water	608	134314

Prep Batch: 265564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	515.1	
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	515.1	
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	515.1	

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

GC Semi VOA (Continued)

Prep Batch: 265564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-2	Blank Equipment	Total/NA	Water	515.1	
LCS 680-265564/10-A	Lab Control Sample	Total/NA	Water	515.1	
MB 680-265564/9-A	Method Blank	Total/NA	Water	515.1	

Prep Batch: 265947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-54357-G-1-A MS	Matrix Spike	Total/NA	Water	508	
500-54357-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	508	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	508	
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	508	
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	508	
660-52541-2	Blank Equipment	Total/NA	Water	508	
LCS 680-265947/10-A	Lab Control Sample	Total/NA	Water	508	
LCS 680-265947/14-A	Lab Control Sample	Total/NA	Water	508	
MB 680-265947/9-A	Method Blank	Total/NA	Water	508	

Prep Batch: 266023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	504.1	
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	504.1	
660-52541-2	Blank Equipment	Total/NA	Water	504.1	
660-52541-2 MS	Blank Equipment	Total/NA	Water	504.1	
LCS 680-266023/10-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-266023/11-A	Lab Control Sample Dup	Total/NA	Water	504.1	
MB 680-266023/9-A	Method Blank	Total/NA	Water	504.1	

Analysis Batch: 266128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	504.1	266023
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	504.1	266023
660-52541-2	Blank Equipment	Total/NA	Water	504.1	266023
660-52541-2 MS	Blank Equipment	Total/NA	Water	504.1	266023
LCS 680-266023/10-A	Lab Control Sample	Total/NA	Water	504.1	266023
LCSD 680-266023/11-A	Lab Control Sample Dup	Total/NA	Water	504.1	266023
MB 680-266023/9-A	Method Blank	Total/NA	Water	504.1	266023

Analysis Batch: 266239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-54357-G-1-A MS	Matrix Spike	Total/NA	Water	508	265947
500-54357-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	508	265947
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	508	265947
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	508	265947
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	508	265947
660-52541-2	Blank Equipment	Total/NA	Water	508	265947
LCS 680-265947/10-A	Lab Control Sample	Total/NA	Water	508	265947
LCS 680-265947/14-A	Lab Control Sample	Total/NA	Water	508	265947
MB 680-265947/9-A	Method Blank	Total/NA	Water	508	265947

Analysis Batch: 266564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-2	Blank Equipment	Total/NA	Water	515.1	265564

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

GC Semi VOA (Continued)

Analysis Batch: 266564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-265564/10-A	Lab Control Sample	Total/NA	Water	515.1	265564
MB 680-265564/9-A	Method Blank	Total/NA	Water	515.1	265564

Analysis Batch: 266732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	515.1	265564
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	515.1	265564
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	515.1	265564

HPLC/IC

Prep Batch: 265583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	549.2	
660-52541-2	Blank Equipment	Total/NA	Water	549.2	
LCS 680-265583/9-A	Lab Control Sample	Total/NA	Water	549.2	
LCSD 680-265583/10-A	Lab Control Sample Dup	Total/NA	Water	549.2	
MB 680-265583/8-A	Method Blank	Total/NA	Water	549.2	

Analysis Batch: 265603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	547	
660-52541-2	Blank Equipment	Total/NA	Water	547	
680-87135-B-1 MS	Matrix Spike	Total/NA	Water	547	
680-87135-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	547	
LCS 680-265603/9	Lab Control Sample	Total/NA	Water	547	
LCSD 680-265603/10	Lab Control Sample Dup	Total/NA	Water	547	
MB 680-265603/8	Method Blank	Total/NA	Water	547	

Analysis Batch: 265881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	549.2	265583
660-52541-2	Blank Equipment	Total/NA	Water	549.2	265583
LCS 680-265583/9-A	Lab Control Sample	Total/NA	Water	549.2	265583
LCSD 680-265583/10-A	Lab Control Sample Dup	Total/NA	Water	549.2	265583
MB 680-265583/8-A	Method Blank	Total/NA	Water	549.2	265583

Analysis Batch: 266009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
510-88621-F-1 MS	Matrix Spike	Total/NA	Water	531.1	
510-88621-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	531.1	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	531.1	
660-52541-2	Blank Equipment	Total/NA	Water	531.1	
LCS 680-266009/10	Lab Control Sample	Total/NA	Water	531.1	
LCSD 680-266009/11	Lab Control Sample Dup	Total/NA	Water	531.1	
MB 680-266009/9	Method Blank	Total/NA	Water	531.1	

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Metals

Prep Batch: 134373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52535-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	
660-52535-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	245.1	
660-52541-2	Blank Equipment	Total/NA	Water	245.1	
LCS 660-134373/11-A	Lab Control Sample	Total/NA	Water	245.1	
MB 660-134373/10-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 134391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52535-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	134373
660-52535-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	134373
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	245.1	134373
660-52541-2	Blank Equipment	Total/NA	Water	245.1	134373
LCS 660-134373/11-A	Lab Control Sample	Total/NA	Water	245.1	134373
MB 660-134373/10-A	Method Blank	Total/NA	Water	245.1	134373

Prep Batch: 134424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42276-A-21-B MS	Matrix Spike	Total Recoverable	Water	200.7	
640-42276-A-21-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	
660-52541-1	Leachate Effluent Semi-Annual	Total Recoverable	Water	200.7	
660-52541-2	Blank Equipment	Total Recoverable	Water	200.7	
LCS 660-134424/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 660-134424/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
MB 660-134424/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 134431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42276-A-21-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	134424
640-42276-A-21-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	134424
660-52541-1	Leachate Effluent Semi-Annual	Total Recoverable	Water	200.7 Rev 4.4	134424
660-52541-2	Blank Equipment	Total Recoverable	Water	200.7 Rev 4.4	134424
LCS 660-134424/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	134424
LCSD 660-134424/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	134424
MB 660-134424/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	134424

Analysis Batch: 134460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total Recoverable	Water	200.7 Rev 4.4	134424
660-52541-2	Blank Equipment	Total Recoverable	Water	200.7 Rev 4.4	134424

Prep Batch: 266291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	200	
660-52541-2	Blank Equipment	Total/NA	Water	200	
660-52541-2 MS	Blank Equipment	Total/NA	Water	200	
660-52541-2 MSD	Blank Equipment	Total/NA	Water	200	
LCS 660-266291/2-A	Lab Control Sample	Total/NA	Water	200	
MB 660-266291/1-A	Method Blank	Total/NA	Water	200	

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Metals (Continued)

Analysis Batch: 266613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	200.8	266291
660-52541-2	Blank Equipment	Total/NA	Water	200.8	266291
660-52541-2 MS	Blank Equipment	Total/NA	Water	200.8	266291
660-52541-2 MSD	Blank Equipment	Total/NA	Water	200.8	266291
LCS 660-266291/2-A	Lab Control Sample	Total/NA	Water	200.8	266291
MB 660-266291/1-A	Method Blank	Total/NA	Water	200.8	266291

Analysis Batch: 266912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	200.8	266291
660-52541-2	Blank Equipment	Total/NA	Water	200.8	266291
660-52541-2 MS	Blank Equipment	Total/NA	Water	200.8	266291
660-52541-2 MSD	Blank Equipment	Total/NA	Water	200.8	266291
LCS 660-266291/2-A	Lab Control Sample	Total/NA	Water	200.8	266291
MB 660-266291/1-A	Method Blank	Total/NA	Water	200.8	266291

General Chemistry

Analysis Batch: 134192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	2150B	
660-52541-1 DU	Leachate Effluent Semi-Annual	Total/NA	Water	2150B	
660-52541-2	Blank Equipment	Total/NA	Water	2150B	
LCS 660-134192/2	Lab Control Sample	Total/NA	Water	2150B	
MB 660-134192/1	Method Blank	Total/NA	Water	2150B	

Analysis Batch: 134227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52519-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	SM 4500 H+ B	
660-52541-2	Blank Equipment	Total/NA	Water	SM 4500 H+ B	
LCS 660-134227/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 134247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52536-J-4 DU	Duplicate	Total/NA	Water	SM 2120B	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	SM 2120B	
660-52541-2	Blank Equipment	Total/NA	Water	SM 2120B	
LCS 660-134247/5	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 660-134247/4	Method Blank	Total/NA	Water	SM 2120B	

Analysis Batch: 134249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52536-H-2 MS	Matrix Spike	Total/NA	Water	353.2	
660-52536-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	353.2	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	353.2	
660-52541-2	Blank Equipment	Total/NA	Water	353.2	
LCS 660-134249/6	Lab Control Sample	Total/NA	Water	353.2	
MB 660-134249/5	Method Blank	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

General Chemistry (Continued)

Analysis Batch: 134273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	SM 5540C	
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	SM 5540C	
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	SM 5540C	
660-52541-2	Blank Equipment	Total/NA	Water	SM 5540C	
LCS 660-134273/2	Lab Control Sample	Total/NA	Water	SM 5540C	
MB 660-134273/1	Method Blank	Total/NA	Water	SM 5540C	

Analysis Batch: 134491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42234-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	SM 2540C	
660-52541-2	Blank Equipment	Total/NA	Water	SM 2540C	
LCS 660-134491/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-134491/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 265594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52534-B-5-B DU	Duplicate	Total/NA	Water	Distill/CN	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	Distill/CN	
660-52541-2	Blank Equipment	Total/NA	Water	Distill/CN	
680-87262-B-1-B MS	Matrix Spike	Total/NA	Water	Distill/CN	
680-87262-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	Distill/CN	
LCS 680-265594/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 680-265594/1-A	Method Blank	Total/NA	Water	Distill/CN	

Analysis Batch: 265676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52534-B-5-B DU	Duplicate	Total/NA	Water	335.4	265594
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	335.4	265594
660-52541-2	Blank Equipment	Total/NA	Water	335.4	265594
680-87262-B-1-B MS	Matrix Spike	Total/NA	Water	335.4	265594
680-87262-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	335.4	265594
LCS 680-265594/2-A	Lab Control Sample	Total/NA	Water	335.4	265594
MB 680-265594/1-A	Method Blank	Total/NA	Water	335.4	265594

Prep Batch: 266453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	Distill/Phenol	
660-52541-2	Blank Equipment	Total/NA	Water	Distill/Phenol	
660-52632-L-1-B MS	Matrix Spike	Total/NA	Water	Distill/Phenol	
660-52632-L-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	Distill/Phenol	
680-87377-D-2-B DU	Duplicate	Total/NA	Water	Distill/Phenol	
LCS 680-266453/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 680-266453/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 266493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	420.1	266453
660-52541-2	Blank Equipment	Total/NA	Water	420.1	266453
660-52632-L-1-B MS	Matrix Spike	Total/NA	Water	420.1	266453
660-52632-L-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	420.1	266453

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

General Chemistry (Continued)

Analysis Batch: 266493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-87377-D-2-B DU	Duplicate	Total/NA	Water	420.1	266453
LCS 680-266453/2-A	Lab Control Sample	Total/NA	Water	420.1	266453
MB 680-266453/1-A	Method Blank	Total/NA	Water	420.1	266453

Analysis Batch: 266703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
660-52541-2	Blank Equipment	Total/NA	Water	300.0	
LCS 680-266703/9	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-266703/10	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-266703/8	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 266734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
660-52541-1 MS	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
660-52541-1 MSD	Leachate Effluent Semi-Annual	Total/NA	Water	300.0	
LCS 680-266734/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-266734/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-266734/2	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 134430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52541-1	Leachate Effluent Semi-Annual	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	134218	02/07/13 15:31	EC	TAL TAM
Total/NA	Analysis	524.2		1	266081	02/12/13 15:18	AGM	TAL SAV
Total/NA	Prep	548.1			265634	02/08/13 12:53	JE	TAL SAV
Total/NA	Analysis	548.1		1	265919	02/11/13 21:05	SMP	TAL SAV
Total/NA	Prep	525.2			265466	02/07/13 13:19	JE	TAL SAV
Total/NA	Analysis	525.2		1	266165	02/09/13 02:14	LEG	TAL SAV
Total/NA	Prep	625			265792	02/11/13 15:02	RBS	TAL SAV
Total/NA	Analysis	625		1	266889	02/21/13 04:45	BB	TAL SAV
Total/NA	Prep	608			134314	02/11/13 09:28	AG	TAL TAM
Total/NA	Analysis	608		4	134633	02/13/13 16:34	JB	TAL TAM
Total/NA	Prep	504.1			266023	02/12/13 17:07	JEM	TAL SAV
Total/NA	Analysis	504.1		1	266128	02/13/13 01:36	JEM	TAL SAV
Total/NA	Prep	508			265947	02/12/13 11:05	KW	TAL SAV
Total/NA	Analysis	508		1	266239	02/14/13 08:03	JK	TAL SAV
Total/NA	Prep	515.1			265564	02/08/13 07:54	CTR	TAL SAV
Total/NA	Analysis	515.1		1	266732	02/19/13 02:39	JK	TAL SAV
Total/NA	Analysis	547		1	265603	02/07/13 18:35	KB	TAL SAV
Total/NA	Prep	549.2			265583	02/08/13 10:02	CV	TAL SAV
Total/NA	Analysis	549.2		1	265881	02/08/13 18:12	KB	TAL SAV
Total/NA	Analysis	531.1		10	266009	02/12/13 11:11	KB	TAL SAV
Total/NA	Prep	245.1			134373	02/12/13 10:58	RG	TAL TAM
Total/NA	Analysis	245.1		1	134391	02/12/13 13:23	RG	TAL TAM
Total Recoverable	Prep	200.7			134424	02/13/13 10:16	GF	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	134431	02/13/13 19:36	GF	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		20	134460	02/14/13 07:15	GF	TAL TAM
Total/NA	Prep	200			266291	02/14/13 16:21	RAM	TAL SAV
Total/NA	Analysis	200.8		1	266613	02/15/13 18:54	BR	TAL SAV
Total/NA	Analysis	200.8		1	266912	02/20/13 20:50	BR	TAL SAV
Total/NA	Analysis	2150B		1	134192	02/06/13 16:20	RWF	TAL TAM
Total/NA	Analysis	SM 4500 H+ B		1	134227	02/07/13 12:00	RWF	TAL TAM
Total/NA	Analysis	SM 2120B		10	134247	02/08/13 06:50	AG	TAL TAM
Total/NA	Analysis	353.2		100	134249	02/08/13 06:06	RWF	TAL TAM
Total/NA	Analysis	353.2		1	134249	02/08/13 06:06	RWF	TAL TAM
Total/NA	Analysis	SM 5540C		1	134273	02/08/13 10:10	SC	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Prep	Distill/CN			265594	02/08/13 10:00	DAM	TAL SAV
Total/NA	Analysis	335.4		1	265676	02/08/13 14:39	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			266453	02/15/13 10:45	CMB	TAL SAV
Total/NA	Analysis	420.1		1	266493	02/16/13 15:02	CMB	TAL SAV
Total/NA	Analysis	300.0		2	266703	02/18/13 15:47	PAT	TAL SAV
Total/NA	Analysis	300.0		100	266703	02/18/13 15:59	PAT	TAL SAV
Total/NA	Analysis	300.0		4	266734	02/19/13 11:55	PAT	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Leachate Effluent Semi-Annual

Lab Sample ID: 660-52541-1

Date Collected: 02/06/13 13:10

Matrix: Water

Date Received: 02/06/13 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	134430	02/06/13 13:10		TAL TAM

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	134218	02/07/13 14:46	EC	TAL TAM
Total/NA	Analysis	524.2		1	266081	02/12/13 14:24	AGM	TAL SAV
Total/NA	Prep	548.1			265634	02/08/13 12:53	JE	TAL SAV
Total/NA	Analysis	548.1		1	265919	02/11/13 21:18	SMP	TAL SAV
Total/NA	Prep	525.2			265466	02/07/13 13:19	JE	TAL SAV
Total/NA	Analysis	525.2		1	266165	02/09/13 02:41	LEG	TAL SAV
Total/NA	Prep	625			265792	02/11/13 15:02	RBS	TAL SAV
Total/NA	Analysis	625		1	266889	02/21/13 05:13	BB	TAL SAV
Total/NA	Prep	608			134314	02/11/13 09:28	AG	TAL TAM
Total/NA	Analysis	608		1	134633	02/13/13 15:50	JB	TAL TAM
Total/NA	Prep	504.1			266023	02/12/13 17:07	JEM	TAL SAV
Total/NA	Analysis	504.1		1	266128	02/13/13 01:46	JEM	TAL SAV
Total/NA	Prep	508			265947	02/12/13 11:05	KW	TAL SAV
Total/NA	Analysis	508		1	266239	02/14/13 08:50	JK	TAL SAV
Total/NA	Prep	515.1			265564	02/08/13 07:54	CTR	TAL SAV
Total/NA	Analysis	515.1		1	266564	02/15/13 01:38	JK	TAL SAV
Total/NA	Analysis	547		1	265603	02/07/13 18:55	KB	TAL SAV
Total/NA	Prep	549.2			265583	02/08/13 10:02	CV	TAL SAV
Total/NA	Analysis	549.2		1	265881	02/08/13 18:22	KB	TAL SAV
Total/NA	Analysis	531.1		1	266009	02/12/13 11:56	KB	TAL SAV
Total/NA	Prep	245.1			134373	02/12/13 10:58	RG	TAL TAM
Total/NA	Analysis	245.1		1	134391	02/12/13 13:25	RG	TAL TAM
Total Recoverable	Prep	200.7			134424	02/13/13 10:16	GF	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	134431	02/13/13 19:39	GF	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	134460	02/14/13 07:12	GF	TAL TAM
Total/NA	Prep	200			266291	02/14/13 16:21	RAM	TAL SAV
Total/NA	Analysis	200.8		1	266613	02/15/13 19:01	BR	TAL SAV
Total/NA	Analysis	200.8		1	266912	02/20/13 21:01	BR	TAL SAV
Total/NA	Analysis	2150B		1	134192	02/06/13 16:20	RWF	TAL TAM
Total/NA	Analysis	SM 4500 H+ B		1	134227	02/07/13 12:00	RWF	TAL TAM
Total/NA	Analysis	SM 2120B		1	134247	02/08/13 06:50	AG	TAL TAM
Total/NA	Analysis	353.2		1	134249	02/08/13 06:06	RWF	TAL TAM
Total/NA	Analysis	SM 5540C		1	134273	02/08/13 10:10	SC	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Prep	Distill/CN			265594	02/08/13 10:00	DAM	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Client Sample ID: Blank Equipment

Lab Sample ID: 660-52541-2

Date Collected: 02/06/13 12:30

Matrix: Water

Date Received: 02/06/13 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	335.4		1	265676	02/08/13 14:40	DAM	TAL SAV
Total/NA	Prep	Distill/Phenol			266453	02/15/13 10:45	CMB	TAL SAV
Total/NA	Analysis	420.1		1	266493	02/16/13 15:02	CMB	TAL SAV
Total/NA	Analysis	300.0		1	266703	02/18/13 16:36	PAT	TAL SAV

Client Sample ID: Blank Travel

Lab Sample ID: 660-52541-3

Date Collected: 02/06/13 00:00

Matrix: Water

Date Received: 02/06/13 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	134218	02/07/13 15:09	EC	TAL TAM

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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

Method Summary

Client: Hillsborough County Public Utilities Dep.
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL SAV
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL TAM
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	TAL SAV
548.1	Endothall (GC/MS)	EPA-DW	TAL SAV
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL SAV
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	TAL SAV
508	Chlorinated Pesticides & PCBs (GC)	EPA	TAL SAV
515.1	Herbicides (GC)	EPA-01	TAL SAV
608	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL TAM
531.1	Carbamate Pesticides (HPLC)	EPA	TAL SAV
547	Glyphosate (DAI HPLC)	EPA	TAL SAV
549.2	Diquat and Paraquat (HPLC)	EPA	TAL SAV
200.7 Rev 4.4	Metals (ICP)	EPA	TAL TAM
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL TAM
2150B	Odor (Threshold Odor)	SM18	TAL TAM
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
SM 2120B	Color, Colorimetric	SM	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 4500 H+ B	pH	SM	TAL TAM
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	TAL TAM
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements

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",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13

TestAmerica Tampa

Certification Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent SemiAnnual

TestAmerica Job ID: 660-52541-1

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999819910	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

660-52541

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

LEACHATE TRUCKS AND TANKS MONITORING PROGRAM

LEACHATE PLANT

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

REP. OF SOLID WASTE DEPT. 1-30-13 12:00

LOCATION: LEACHATE EFFLUENT Seim-Annual WACS# 19864 (February and August)

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION: 3 A. Balloon ☐

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
A JC	12:55	24.53	4377	8.04	4.30	N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
3	40 ml VIAL	8	40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
3	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS	2	250 ml. GLASS	
1	500 ml. PLASTIC	2	500 ml. PLASTIC	
2	500 ml. GLASS	7	500 ml. GLASS	
1	LITER PLASTIC		LITER PLASTIC	
4	LITER GLASS	6	LITER GLASS	
	BACTERIAL		BACTERIAL	

37 TOTAL No. OF SAMPLES COLLECTED:

2 80 ml VIAL

COLORS & SHEENS: YES N/A NO

COLLECTED

DATE | TIME

2-6-13 12:55

11:10

ANALYSIS REQUESTED:

Primary Drinking Water Standards

Secondary Drinking Water Standards

Priority Pollutants (40 CFR Part 423, Appendix A)

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

ACCEPTED BY:

REP. OF SOLID WASTE DEPT.

REP. OF CONTRACT LAB.

DATE | TIME

2-6-13 3:55

2-6-13 3:55

COMMENT'S:

4.2, 5.4 c 4007

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
LEACHATE TRUCKS AND TANKS MONITORING PROGRAM
LEACHATE PLANT

PRECLEANED SAMPLE CONTAINERS: _____ DATE | TIME
 RELINQUISHED BY: _____ REP. OF CONTRACT LAB.
 ACCEPTED BY: EQ 13 L. [Signature] REP. OF SOLID WASTE DEPT. 2-30-13 | 12:30
 LOCATION: LEACHATE EFFLUENT Seim-Annual WACS# 19864 (February and August)
 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION: MA. Balloon ☒ Je ☐

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>1</u>						N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
<u>3</u>	40 ml VIAL	<u>8</u>	40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<u>3</u>	250 ml. PLASTIC	<u>1</u>	250 ml. PLASTIC	
	250 ml. GLASS	<u>2</u>	250 ml. GLASS	
<u>6</u>	500 ml. PLASTIC	<u>2</u>	500 ml. PLASTIC	
	500 ml. GLASS	<u>7</u>	500 ml. GLASS	
<u>1</u>	LITER PLASTIC		LITER PLASTIC	
<u>4</u>	LITER GLASS	<u>6</u>	LITER GLASS	
	BACTERIAL		BACTERIAL	

37 TOTAL No. OF SAMPLES COLLECTED: 2 80 ml VIAL

COLORS & SHEENS: YES N/A NO

COLLECTED
 DATE | TIME
2-6-13 | 12:30

ANALYSIS REQUESTED:

Primary Drinking Water Standards Secondary Drinking Water Standards

Priority Pollutants (40 CFR Part 423, Appendix A)

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

ABOVE LISTED SAMPLES: 3
 RELINQUISHED BY: [Signature] REP. OF SOLID WASTE DEPT. 2-6-13 | 3:55
 ACCEPTED BY: [Signature] REP. OF CONTRACT LAB. 2-6-13 | 3:55

COMMENT'S: _____

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 1-30-13 12:00

LOCATION: BLANK-TRAVEL SAMPLE MATRIX: WATER OTHER MATRIX: _____

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

CONTAINER CODE:

NO. COL.	TYPE	PRESERVATIVE	CONTAINER TYPE	COLLECTED DATE TIME
<u>2</u>	VOC	1:1 HCL	2-40 ml. SEPTUM VIAL	<u>2-6-13 12:29</u>
<u>2</u>	TOTAL No. OF SAMPLES COLLECTED:			

ANALYSIS REQUESTED:

EPA 8260

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 2-6-13 3:55

ACCEPTED BY: John Pelly REP. OF CONTRACT LAB. 2-6-13 3:55

COMMENTS: _____

TestAmerica
A TESTA COMPANY
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Lab PM: Robertson, Nancy		Carrier Tracking No(s):			
Client Contact Shipping/Receiving		Phone:		COC No: 660-52819.2			
Company: TestAmerica Laboratories, Inc.		E-Mail: nancy.robertson@testamericainc.com		Page: Page 2 of 2			
Address: 5102 LaRoche Avenue,		Due Date Requested: 2/13/2013		Job #: 660-52541-1			
City: Savannah		TAT Requested (days):		Preservation Codes:			
State, Zip: GA, 31404		PO #:		A - HCL M - Hexano B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)			
Phone: 912-354-7858(Tel) 912-352-0165(Fax)		WO #:		Other:			
Email:		Project #: 66002089					
Project Name: Leachate EFF Drinking Water SemiAnnual		SSOW#:					
Site:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab) Preservation Code:	Matrix (W=water, D=dred, O=oyster/shell, BT=Tissue, A=Air)	Total Number of Containers	Special Instructions/Note:
Leachate Effluent (660-52541-1)	2/6/13	13:10 Eastern	Water	X X		21	
Eq Blank (660-52541-2)	2/6/13	12:30 Eastern	Water	X X		25	
Possible Hazard Identification		Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Deliverable Requested: I, II, III, IV, Other (specify)				☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Empty Kit Relinquished by		Date	Time	Method of Shipment			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52541-1

Login Number: 52541

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is $< 6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52541-1

Login Number: 52541

List Number: 1

Creator: Conner, Keaton

List Source: TestAmerica Savannah

List Creation: 02/07/13 08:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received and the COC.	False	-1 received 24 containers/-2 received 25
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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52541-1

Login Number: 52541

List Number: 2

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

List Creation: 02/25/13 08:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4"$).	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	