

SCS ENGINEERS

May 16, 2011
File No. 09210021.03

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Dept. Of Environmental Protection

MAY 16 2011

Southwest District

Subject: Citrus County Central Landfill
Quarterly Leachate Sampling – First Quarter 2011
Permit No. 21375-018-SO/01

Dear Mr. Morris:

SCS Engineers (SCS) is providing the First Quarter Leachate Effluent monitoring results on behalf of the Citrus County Solid Waste Management Division (County) for the Central Landfill located in Citrus County, Florida (the site). This report provides copies of the final laboratory reports, field forms, and a CD containing an electronic copy of this report and the electronic data deliverable (EDD) in the "ADaPT" format provided by TestAmerica Laboratories Inc., (TestAmerica).

The leachate effluent sample was analyzed in compliance with the permit and for the quarterly parameters listed in Specific Condition Part E.9.b.2 (quarterly) of the permit. The resulting data from the quarterly sampling event are included in Attachment 1 (Effluent data is located on pages 7, 8, and 9, of 28 of the laboratory analytical report.) and Table 1, Attachment 3. These concentrations are similar to historic concentrations (Table 1, Attachment 3). With the exception of arsenic, sodium, chloride, and total dissolved solids (TDS), the leachate effluent sample complied with the groundwater standards and minimum criteria referenced in Florida Administrative Code (FAC) Chapters 62-520.420 and 62-520.400, respectively. As per Specific Condition Part E.9.b, arsenic, sodium, chloride, and TDS are not required to meet the groundwater standards and minimum criteria at the discharge point; however, they must comply at monitoring well MW-6 (Table 3, Attachment 3).

First Quarter leachate quality sampling, physical readings and measurements, and leachate quality analyses were performed by TestAmerica. Field work, sampling methodologies, data evaluation, and data Quality Assurance/Quality Control (QA/QC) were conducted in accordance with FAC Chapter 62-160 Standard Operating Procedures (DEP-SOP-001/01) and the TestAmerica quality manual. Laboratory analyses were performed in accordance with Chapter 62-160, FAC DEP-SOP-001/01. TestAmerica is certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP).



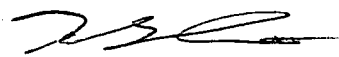
Mr. John Morris, P.G.
May 16, 2011
Page 2

TestAmerica mobilized to the site on January 19, 2011, to collect leachate samples following the FDEP Standard Operating Procedures (SOPs) as guidance for the collection of these samples. Copies of the laboratory report and field forms are presented in Attachment 1.

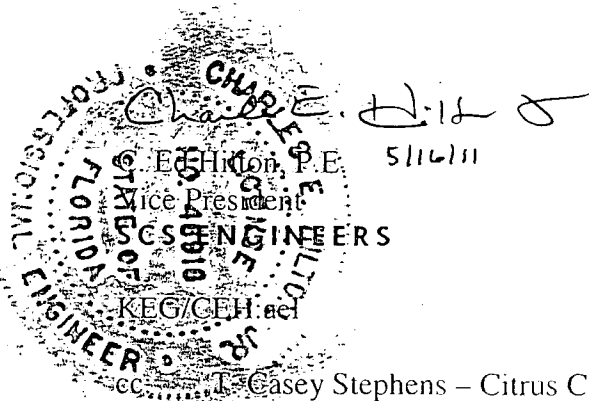
Monthly samples of the leachate effluent were analyzed for the parameters listed in Specific Condition Part E.9.b.2 (monthly) of the Permit. The monthly samples are collected by the site and analyzed by their contract laboratory. The analytical laboratory reports from the monthly sampling events for January, February, and March of 2011, are included in Attachment 2 and summarized on Table 2, Attachment 3.

If you have any questions regarding this report, please contact the undersigned at (813) 621-0080.

Sincerely,



Ken Guilbeault, LEP
Senior Project Professional



cc: T. Casey Stephens – Citrus County
Solid Waste Administrator, FDEP - Tallahassee

Attachments

Florida Department of Environmental Protection

Bob Martinez Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(31), F.A.C

Form Title: Water Quality Monitoring
Certification

Effective Date January 6, 2011

Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Citrus County Central Landfill

Address PO BOX 340

City Lecanto

Zip 34460

Telephone Number (352) 527-7670

(2) WACS Facility ID 39859

(3) DEP Permit Number 21375-018-SO/01

(4) Authorized Representative Name Casey Stephens,

Title Director of Solid Waste

Address PO BOX 340

City Lecanto

Zip 34460

Telephone Number (352) 527-7670

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

Date: May 11, 2011

[Signature]
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization TestAmerica Laboratories, Inc

Analytical Lab NELAC / HRS Certification # NELAP Certifications E84282 and E81005

Lab Name TestAmerica Laboratories, Inc

Address 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Phone Number (813) 885-7427

Email address (if available) nancy.robertson@testamericainc.com

Dept. Of Environmental Protection

MAY 16 2011

Southwest District

ATTACHMENT 1
LABORATORY ANALYTICAL RESULTS
AND FIELD FORMS

ANALYTICAL REPORT

Job Number: 660-39336-1

Job Description: Citrus County Leachate CCL

For:
SCS Engineers
4041 Park Oaks Blvd
Suite 100
Tampa, FL 33610
Attention: Mr. Ken Guilbeault



Approved for release.
Nancy Robertson
Project Manager II
2/1/2011 3:39 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com
02/01/2011

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.

TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com



Job Narrative
660-39336-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 300.0: The MS/MSD was reported over the calibration curve for chloride. Batch 105535.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: SCS Engineers

Job Number: 660-39336-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-39336-1	EFF LEACHATE				
Color		Yellow		Color Units	Field Sampling
Field pH		7.52		SU	Field Sampling
Oxidation Reduction Potential		40.2		millivolts	Field Sampling
Oxygen, Dissolved		6.01		mg/L	Field Sampling
Sheen		None		SU	Field Sampling
Specific Conductance		3176		umhos/cm	Field Sampling
Chloride		750	10	mg/L	300.0
Total Dissolved Solids		1600	5.0	mg/L	SM 2540C
<i>Total Recoverable</i>					
Arsenic		12	10	ug/L	6010B
Sodium		400	5.0	mg/L	6010B

METHOD SUMMARY

Client: SCS Engineers

Job Number: 660-39336-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL TAM	SW846 8260B	
Purge and Trap	TAL TAM		SW846 5030B
EDB	TAL TAM	EPA 8011	
Microextraction	TAL TAM		SW846 8011
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Chloride	TAL TAM	40CFR136A 300.0	
Nitrogen, Ammonia	TAL TAM	MCAWW 350.1	
Solids, Total Dissolved (TDS)	TAL TAM	SM SM 2540C	
Field Sampling	TAL TAM	EPA Field Sampling	

Lab References:

TAL TAM = TestAmerica Tampa

Method 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

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

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

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

METHOD / ANALYST SUMMARY

Client: SCS Engineers

Job Number: 660-39336-1

Method	Analyst	Analyst ID
SW846 8260B	Campbell, Ed	EC
EPA 8011	Ballard, James	JB
SW846 6010B	Fox, Greg	GF
EPA Field Sampling	Sampler, Field	FS
40CFR136A 300.0	Steward, Tiffany	TS
MCAWW 350.1	Office, Trey	TO
SM SM 2540C	Oonnoony, Thomas	TO

SAMPLE SUMMARY

Client: SCS Engineers

Job Number: 660-39336-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-39336-1	Eff Leachate	Water	01/19/2011 1150	01/20/2011 0940
660-39336-2	Trip Blank	Water	01/19/2011 0000	01/20/2011 0940

Mr. Ken Guilbeault
SCS Engineers
4041 Park Oaks Blvd
Suite 100
Tampa, FL 33610

Job Number: 660-39336-1
Lab Sample Id: 660-39336-1
Client Matrix: Water
Date Sampled: 01/19/2011 1150
Date Received: 01/20/2011 0940

Client Sample ID: Eff Leachate

	Result/Qualifier		Unit	RL	Method	Date Prepared		Date Analyzed		Dilution
GC/MS VOA										
Benzene	0.50	U	ug/L	0.50	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Ethylbenzene	0.44	U	ug/L	0.44	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Toluene	0.51	U	ug/L	0.51	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Xylenes, Total	0.50	U	ug/L	0.50	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Bromoform	0.58	U	ug/L	0.58	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Dibromochloromethane	0.34	U	ug/L	0.34	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Chloroform	0.90	U	ug/L	0.90	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Bromodichloromethane	0.35	U	ug/L	0.35	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Vinyl chloride	0.50	U	ug/L	0.50	8260B	01/25/2011	1332	01/25/2011	1332	1.0
Surrogate						Acceptance Limits				
Toluene-d8 (Surr)	106		%		8260B	70 - 130				
Dibromofluoromethane	98		%		8260B	70 - 130				
4-Bromofluorobenzene	108		%		8260B	70 - 130				
GC SEMI VOA										
Ethylene Dibromide	0.0097	U	ug/L	0.0097	8011	01/27/2011	1623	01/28/2011	0441	1.0
Surrogate						Acceptance Limits				
1,1,1,2-Tetrachloroethane	96		%		8011	60 - 140				
METALS										
Arsenic	12		ug/L	4.0	6010B - Total Recoverable	01/27/2011	0718	01/27/2011	1608	1.0
Sodium	400		mg/L	3.1	6010B - Total Recoverable	01/27/2011	0718	01/27/2011	1614	10
FIELD SERVICE / MOBILE LAB										
Color	Yellow		Color Units		Field Sampling			01/19/2011	1150	1.0
Field pH	7.52		SU		Field Sampling			01/19/2011	1150	1.0
Oxidation Reduction Potential	40.2		millivolts		Field Sampling			01/19/2011	1150	1.0
Oxygen, Dissolved	6.01		mg/L		Field Sampling			01/19/2011	1150	1.0

Mr. Ken Guilbeault
SCS Engineers
4041 Park Oaks Blvd
Suite 100
Tampa, FL 33610

Job Number: 660-39336-1
Lab Sample Id: 660-39336-1
Client Matrix: Water
Date Sampled: 01/19/2011 1150
Date Received: 01/20/2011 0940

Client Sample ID: Eff Leachate

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
FIELD SERVICE / MOBILE LAB							
Sheen	None	SU		Field Sampling		01/19/2011 1150	1.0
Specific Conductance	3176	umhos/cm		Field Sampling		01/19/2011 1150	1.0
GENERAL CHEMISTRY							
Chloride	750	mg/L	4.0	300.0		01/21/2011 1543	20
Ammonia as N	0.010	U mg/L	0.010	350.1		01/24/2011 1217	1.0
Total Dissolved Solids	1600	mg/L	5.0	SM 2540C		01/25/2011 1135	1.0

Mr. Ken Guilbeault
SCS Engineers
4041 Park Oaks Blvd
Suite 100
Tampa, FL 33610

Job Number: 660-39336-1
Lab Sample Id: 660-39336-2
Client Matrix: Water
Date Sampled: 01/19/2011 0000
Date Received: 01/20/2011 0940

Client Sample ID: Trip Blank

	Result/Qualifier		Unit	RL	Method	Date Prepared		Date Analyzed		Dilution
GC/MS VOA										
Benzene	0.50	U	ug/L	0.50	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Ethylbenzene	0.44	U	ug/L	0.44	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Toluene	0.51	U	ug/L	0.51	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Xylenes, Total	0.50	U	ug/L	0.50	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Bromoform	0.58	U	ug/L	0.58	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Dibromochloromethane	0.34	U	ug/L	0.34	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Chloroform	0.90	U	ug/L	0.90	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Bromodichloromethane	0.35	U	ug/L	0.35	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Vinyl chloride	0.50	U	ug/L	0.50	8260B	01/25/2011	1312	01/25/2011	1312	1.0
Surrogate	Acceptance Limits									
Toluene-d8 (Surr)	106		%		8260B	70 - 130				
Dibromofluoromethane	98		%		8260B	70 - 130				
4-Bromofluorobenzene	109		%		8260B	70 - 130				

DATA REPORTING QUALIFIERS

Client: SCS Engineers

Job Number: 660-39336-1

Lab Section	Qualifier	Description
GC/MS VOA	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 Semi VOA	U	Indicates that the compound was analyzed for but not detected.
Metals	U	Indicates that the compound was analyzed for but not detected.
General Chemistry	U	Indicates that the compound was analyzed for but not detected.
	L	Off-scale high. Actual value is known to be greater than the value given.

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Method Blank - Batch: 660-105610

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 660-105610/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 0914
Date Prepared: 01/25/2011 0914

Analysis Batch: 660-105610
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMF5971
Lab File ID: 1FA2506.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzene	0.50	U	0.50	1.0
Ethylbenzene	0.44	U	0.44	1.0
Toluene	0.51	U	0.51	1.0
Xylenes, Total	0.50	U	0.50	3.0
Bromoform	0.58	U	0.58	1.0
Dibromochloromethane	0.34	U	0.34	1.0
Chloroform	0.90	U	0.90	1.0
Bromodichloromethane	0.35	U	0.35	1.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	114	70 - 130
Dibromofluoromethane	108	70 - 130
4-Bromofluorobenzene	111	70 - 130

Lab Control Sample - Batch: 660-105610

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 660-105610/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 0833
Date Prepared: 01/25/2011 0833

Analysis Batch: 660-105610
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMF5971
Lab File ID: 1FA2504.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	20.3	102	68 - 134	
Ethylbenzene	20.0	18.8	94	70 - 130	
Toluene	20.0	19.1	95	70 - 131	
Bromoform	20.0	15.3	76	65 - 130	
Dibromochloromethane	20.0	16.5	83	70 - 130	
Chloroform	20.0	20.0	100	68 - 130	
Bromodichloromethane	20.0	16.3	81	70 - 130	
Vinyl chloride	20.0	22.0	110	48 - 147	

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Matrix Spike - Batch: 660-105610

Method: 8260B
Preparation: 5030B

Lab Sample ID: 660-39363-C-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 1105
Date Prepared: 01/25/2011 1105

Analysis Batch: 660-105610
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMF5971
Lab File ID: 1FA2510.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Benzene	0.50	U	20.0	18.2	91	68 - 134	
Ethylbenzene	0.44	U	20.0	17.7	88	70 - 130	
Toluene	0.51	U	20.0	17.9	89	70 - 131	
Bromoform	0.58	U	20.0	16.6	83	65 - 130	
Dibromochloromethane	0.34	U	20.0	16.4	82	70 - 130	
Chloroform	0.90	U	20.0	19.8	99	68 - 130	
Bromodichloromethane	0.35	U	20.0	17.0	85	70 - 130	
Vinyl chloride	0.50	U	20.0	16.0	80	48 - 147	

Duplicate - Batch: 660-105610

Method: 8260B
Preparation: 5030B

Lab Sample ID: 660-39363-A-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 1044
Date Prepared: 01/25/2011 1044

Analysis Batch: 660-105610
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMF5971
Lab File ID: 1FA2509.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Benzene	0.65	I	0.523	21	30	I
Ethylbenzene	0.44	U	0.44	NC	30	U
Toluene	0.51	U	0.51	NC	30	U
Xylenes, Total	0.50	U	0.50	NC	30	U
Bromoform	0.58	U	0.58	NC	30	U
Dibromochloromethane	0.34	U	0.34	NC	30	U
Chloroform	0.90	U	0.90	NC	30	U
Bromodichloromethane	0.35	U	0.35	NC	30	U
Vinyl chloride	1.2		1.15	8	30	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	106	70 - 130
Dibromofluoromethane	102	70 - 130
4-Bromofluorobenzene	108	70 - 130

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Method Blank - Batch: 660-105753

Method: 8011
Preparation: 8011

Lab Sample ID: MB 660-105753/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/27/2011 2128
Date Prepared: 01/27/2011 1623

Analysis Batch: 660-105915
Prep Batch: 660-105753
Units: ug/L

Instrument ID: BSGU
Lab File ID: 1A27U014.D
Initial Weight/Volume: 34.6461 g
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Ethylene Dibromide	0.010	U	0.010	0.020

Surrogate	% Rec	Acceptance Limits
1,1,1,2-Tetrachloroethane	97	60 - 140

Lab Control Sample - Batch: 660-105753

Method: 8011
Preparation: 8011

Lab Sample ID: LCS 660-105753/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/27/2011 2149
Date Prepared: 01/27/2011 1623

Analysis Batch: 660-105915
Prep Batch: 660-105753
Units: ug/L

Instrument ID: BSGU
Lab File ID: 1A27U015.D
Initial Weight/Volume: 34.8666 g
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ethylene Dibromide	0.251	0.250	100	70 - 130	

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-105753

Method: 8011
Preparation: 8011

MS Lab Sample ID: 640-31875-D-2-B MS Analysis Batch: 660-105915
Client Matrix: Water Prep Batch: 660-105753
Dilution: 1.0
Date Analyzed: 01/28/2011 0259
Date Prepared: 01/27/2011 1623

Instrument ID: BSGU
Lab File ID: 1A27U030.D
Initial Weight/Volume: 36.3637 g
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

MSD Lab Sample ID: 640-31875-E-2-A MSD Analysis Batch: 660-105915
Client Matrix: Water Prep Batch: 660-105753
Dilution: 1.0
Date Analyzed: 01/28/2011 0320
Date Prepared: 01/27/2011 1623

Instrument ID: BSGU
Lab File ID: 1A27U031.D
Initial Weight/Volume: 36.7634 g
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ethylene Dibromide	106	111	70 - 130	3	40		

Duplicate - Batch: 660-105753

Method: 8011
Preparation: 8011

Lab Sample ID: 660-39285-G-1-A DU Analysis Batch: 660-105915
Client Matrix: Water Prep Batch: 660-105753
Dilution: 1.0 Units: ug/L
Date Analyzed: 01/28/2011 0400
Date Prepared: 01/27/2011 1623

Instrument ID: BSGU
Lab File ID: 1A27U033.D
Initial Weight/Volume: 35.8121 g
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Ethylene Dibromide	0.0099	U	0.0098	NC	40	U

Surrogate	% Rec	Acceptance Limits
1,1,1,2-Tetrachloroethane	90	60 - 140

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Method Blank - Batch: 660-105701

Lab Sample ID: MB 660-105701/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/27/2011 1315
Date Prepared: 01/27/2011 0718

Analysis Batch: 660-105738
Prep Batch: 660-105701
Units: mg/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Sodium	0.31	U	0.31	0.50

Method Blank - Batch: 660-105701

Lab Sample ID: MB 660-105701/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/27/2011 1315
Date Prepared: 01/27/2011 0718

Analysis Batch: 660-105738
Prep Batch: 660-105701
Units: ug/L

Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Arsenic	4.0	U	4.0	10

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Lab Control Sample - Batch: 660-105701

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-105701/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/27/2011 1321
Date Prepared: 01/27/2011 0718

Analysis Batch: 660-105738
Prep Batch: 660-105701
Units: mg/L

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	10.0	10.0	100	75 - 125	

Lab Control Sample - Batch: 660-105701

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-105701/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/27/2011 1321
Date Prepared: 01/27/2011 0718

Analysis Batch: 660-105738
Prep Batch: 660-105701
Units: ug/L

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	1060	106	75 - 125	

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-105701**

**Method: 6010B
Preparation: 3005A
Total Recoverable**

MS Lab Sample ID: 660-39279-B-8-C MS Analysis Batch: 660-105738
Client Matrix: Water Prep Batch: 660-105701
Dilution: 1.0
Date Analyzed: 01/27/2011 1339
Date Prepared: 01/27/2011 0718

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-39279-B-8-D MSD Analysis Batch: 660-105738
Client Matrix: Water Prep Batch: 660-105701
Dilution: 1.0
Date Analyzed: 01/27/2011 1345
Date Prepared: 01/27/2011 0718

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sodium	108	105	75 - 125	2	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-105701**

**Method: 6010B
Preparation: 3005A
Total Recoverable**

MS Lab Sample ID: 660-39279-B-8-C MS Analysis Batch: 660-105738
Client Matrix: Water Prep Batch: 660-105701
Dilution: 1.0
Date Analyzed: 01/27/2011 1339
Date Prepared: 01/27/2011 0718

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-39279-B-8-D MSD Analysis Batch: 660-105738
Client Matrix: Water Prep Batch: 660-105701
Dilution: 1.0
Date Analyzed: 01/27/2011 1345
Date Prepared: 01/27/2011 0718

Instrument ID: ICPA
Lab File ID: 11A27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	106	105	75 - 125	1	20		

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Method Blank - Batch: 660-105535

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-105535/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0859
Date Prepared: N/A

Analysis Batch: 660-105535
Prep Batch: N/A
Units: mg/L

Instrument ID: DIONEX 1
Lab File ID: 12.0000.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50

Lab Control Sample - Batch: 660-105535

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-105535/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 0911
Date Prepared: N/A

Analysis Batch: 660-105535
Prep Batch: N/A
Units: mg/L

Instrument ID: DIONEX 1
Lab File ID: 13.0000.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.8	108	90 - 110	

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-105535**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 660-39324-C-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 1117
Date Prepared: N/A

Analysis Batch: 660-105535
Prep Batch: N/A

Instrument ID: DIONEX 1
Lab File ID: 24.0000.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL
1 uL

MSD Lab Sample ID: 660-39324-C-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 1129
Date Prepared: N/A

Analysis Batch: 660-105535
Prep Batch: N/A

Instrument ID: DIONEX 1
Lab File ID: 25.0000.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL
1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	105	107	90 - 110	1	30		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-105535**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 660-39325-C-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 1301
Date Prepared: N/A

Analysis Batch: 660-105535
Prep Batch: N/A

Instrument ID: DIONEX 1
Lab File ID: 33.0000.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL
1 uL

MSD Lab Sample ID: 660-39325-C-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2011 1348
Date Prepared: N/A

Analysis Batch: 660-105535
Prep Batch: N/A

Instrument ID: DIONEX 1
Lab File ID: 34.0000.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL
1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	98	93	90 - 110	1	30	L	L

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Method Blank - Batch: 660-105560

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 660-105560/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2011 1148
Date Prepared: N/A

Analysis Batch: 660-105560
Prep Batch: N/A
Units: mg/L

Instrument ID: LACHAT
Lab File ID: 01.24.11.NH3.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	PQL
Ammonia as N	0.010	U	0.010	0.020

Lab Control Sample - Batch: 660-105560

Method: 350.1
Preparation: N/A

Lab Sample ID: LCS 660-105560/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2011 1149
Date Prepared: N/A

Analysis Batch: 660-105560
Prep Batch: N/A
Units: mg/L

Instrument ID: LACHAT
Lab File ID: 01.24.11.NH3.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia as N	0.500	0.497	99	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-105560

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-39323-B-12 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2011 1208
Date Prepared: N/A

Analysis Batch: 660-105560
Prep Batch: N/A

Instrument ID: LACHAT
Lab File ID: 01.24.11.NH3.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 660-39323-B-12 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2011 1209
Date Prepared: N/A

Analysis Batch: 660-105560
Prep Batch: N/A

Instrument ID: LACHAT
Lab File ID: 01.24.11.NH3.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia as N	108	107	90 - 110	1	30		

Quality Control Results

Client: SCS Engineers

Job Number: 660-39336-1

Method Blank - Batch: 660-105607

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 660-105607/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 1125
Date Prepared: N/A

Analysis Batch: 660-105607
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Sample - Batch: 660-105607

Method: SM 2540C
Preparation: N/A

Lab Sample ID: LCS 660-105607/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 1126
Date Prepared: N/A

Analysis Batch: 660-105607
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	10000	9960	100	80 - 120	

Duplicate - Batch: 660-105607

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-39318-A-13 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2011 1128
Date Prepared: N/A

Analysis Batch: 660-105607
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	270	268	0	20	

Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

Meter #'s:

PAGE: 1 of 1

Form FD 9000-7: Field Parameter Data Sheet for Surface Water

CLIENT NAME: SCS ENGINEERS

SURVEY/PROJECT: CCL Leachate eff

SAMPLERS: Brett Harvey

Time Out: _____

Time In: _____

[illegible]

Instrument Calibrations: YSI 3500 Calibrated to pH 7.00, slope to pH 4.00, pH 6.00 $\equiv$ see CAL Log Sheets

KCL Conductivity Standards: 0.001M = _____ (147 $\mu\Omega$ /cm) 0.01M = _____ (1413 $\mu\Omega$ /cm) YSI 85 D.O. Meter Calibrated to _____ mg/L @ _____ °C

Cooler Temp: ____ °C

Signature: B. H. H. Relinquished by: B. H. H. Date: 1, 19, 11 Time: 1422

Date Completed: 11/19/11 Received by: _____ Date: / / Time: : :

FIELD CONDITIONS FOR STATION# _____ AT TIME _____ :

CLOUD COVER (%): 0% WIND DIRECTION: SW TIDAL STAGE: N/A

PREVIOUS RAINFALL: 0 WIND SPEED (MPH/KNOTS): 5-8 WAVE CONDITIONS: M/D

Note: This Sheet is used for recording Sample Data – Calibration information must also be documented

TestAmerica Orlando 4310 East Anderson Road, Orlando, Florida 32812
 (407) 261-1111

YST 550 MPS

INSTRUMENT # 2-1

☒ pH

☒ ORP☐ OTHER

Standard A Ph 7.00 Buffer Element # 1708755

Standard B pH 4.00 Buffer

Standard C Ph. 12.00 Buffer

Standard D GAP Solution Element # NT 07751

[illegible]

TestAmerica Orlando 4310 East Anderson Road, Orlando, Florida 32812

INSTRUMENT # T-2

☒ TURBIDITY☐ OTHER

Standard A 5200 Rev Calibration 507.10 Lot A9297 Exp-8-11

[illegible]

Standard C			100		
------------	--	--	-----	--	--

Standard C	☒								
Standard D	☒	☒	☒	80%	☒			☒	

[illegible]

TestAmerica Orlando 4310 East Anderson Road, Orlando, Florida 32812

INSTRUMENT # 14-1

☐ SALINITY ☒ DO ☐ OTHER

Standard A

Standard B

Standard C

Standard D

[illegible]

Login Sample Receipt Check List

Client: SCS Engineers

Job Number: 660-39336-1

Login Number: 39336

List Source: TestAmerica Tampa

Creator: McNulty, Carol

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.1 degrees C cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Dept. Of Environmental Protection

MAY 16 2011

Southwest District

ATTACHMENT 2

MONTHLY LEACHATE QUALITY
ANALYTICAL RESULTS FOR
JANUARY, FEBRUARY, AND MARCH 2011

S.A.C. ENVIRONMENTAL LABORATORY INC
FLDOH CERTIFICATION #84492
ANALYTICAL REPORT

SOLID WASTE MANAGEMENT
PO BOX 340
LECANTO FL 34460

Invoice Number 11470

Client CITRUS COUNTY UTILITIES Sample Number E110016
Project LANDFILL LEACHATE PLANT Date/Time Sampled 1/5/11 1100 HRS
Sample Description WWTP/EFF Date/Time Received 1/5/11 1249 HRS

Method	Analytes	Units	Results	MDL	Analyst	Analysis Date/Time
SM5210-B	CBOD	mg/L	3.11	0.30 mg/L	SJL	1/6/11 1300 HRS
SM2540-D	TSS	mg/L	<1	1.00 mg/L	SJL	1/7/11 1007 HRS
SM4500-NO3-E	NITRATE	mg/L	0.12	0.06 mg/L	SJL	1/6/11 1000 HRS

Sally Ann Casullo
Laboratory Manager

These results relate only to this sample.

For all results qualified with an I, the PQL is defined to be 4 times the MDL

5376 S SUNCOAST BOULEVARD HOMOSASSA FL 34446 352.621.3513 FAX 352.621.3514

1 OF 1

S.A.C. ENVIRONMENTAL LABORATORY INC
FLDOH CERTIFICATION #84492
ANALYTICAL REPORT

SOLID WASTE MANAGEMENT
PO BOX 340
LECANTO FL 34460

Invoice Number 11531

Client CITRUS COUNTY UTILITIES Sample Number E110199
Project LANDFILL LEACHATE PLANT Date/Time Sampled 2/2/11 1012 HRS
Sample Description WWTP/EFF Date/Time Received 2/2/11 1145 HRS

Method	Analytes	Units	Results	MDL	Analyst	Analysis Date/Time
SM5210-B	CBOD	mg/L	6.44	0.30 mg/L	SJL	2/2/11 1230 HRS
SM2540-D	TSS	mg/L	3.00	1.00 mg/L	SJL	2/4/11 0930 HRS
SM4500-NO3-E	NITRATE	mg/L	2.46	0.08 mg/L	SJL	2/2/11 1200 HRS

Sally Ann Gault
Laboratory Manager

These results relate only to this sample.

For all results qualified with an I, the PQL is defined to be 4 times the MDL

5376 S SUNCOAST BOULEVARD HOMOSASSA FL 34446 352.621.3513 FAX 352.621.3514

1 OF 1

S.A.C. ENVIRONMENTAL LABORATORY INC
FLDOH CERTIFICATION #84492
ANALYTICAL REPORT

SOLID WASTE MANAGEMENT
PO BOX 340
LECANTO FL 34460

Invoice Number 11595

Client CITRUS COUNTY UTILITIES Sample Number E110455
Project LANDFILL LEACHATE PLANT Date/Time Sampled 3/9/11 1050 HRS
Sample Description WWTP/EFF Date/Time Received 3/9/11 1229 HRS

Method	Analytes	Units	Results	MDL	Analyst	Analysis Date/Time
SM5210-B	CBOD	mg/L	17.13	0.30 mg/L	SJL	3/9/11 1420 HRS
SM2540-D	TSS	mg/L	15.50	1.00 mg/L	SJL	3/11/11 0920 HRS
SM4500-NO3-E	NITRATE	mg/L	0.42	0.06 mg/L	SJL	3/9/11 1330 HRS

Sally Ann Corullo
Laboratory Manager

These results relate only to this sample.

For all results qualified with an L, the PQL is defined to be 4 times the MDL

5376 S SUNCOAST BOULEVARD HOMOSASSA FL 34446 352.621.3513 FAX 352.621.3514

1 OF 1

ATTACHMENT 3

TABLES

Dept. Of Environmental Protection

MAY 16 2011

Southwest District

Table 1. Summary of Leachate Effluent Quality Analytical Results
Citrus County Central Landfill

Parameter	Standard	MCL	Units	Leachate Effluent											
				10/15/2008	1/27/2009	4/20/2009	7/21/2009	9/9/2009	10/14/2009	1/26/2010	5/12/2010	7/27/2010	9/9/2010	10/27/2010	1/19/2011
Volatile Organics								Resample					Resample		
Acetone	GCTL	6300	ug/L	---	---	---	21	---	---	---	---	40	15 I	---	---
Benzene	PDWS	1	ug/L	0.5 U	1 U	0.5 U	0.5 U	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	PDWS	3	ug/L	---	---	---	1 U	---	---	---	---	1.2	0.45 I	---	---
Chlorobromomethane	GCTL	91	ug/L	---	---	---	0.58 U	0.58 U	---	---	---	5.7	0.58 U	---	---
Chloromethane	GCTL	2.7	ug/L	---	---	---	1 U	---	---	---	---	2.4 I	1.0 U	---	---
Dibromomethane	GCTL	70	ug/L	---	---	---	0.41 U	---	---	---	---	5.8	0.41 U	---	---
Ethylbenzene	SDWS	30	ug/L	0.5 U	1 U	0.5 U	0.44 U	---	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Ethylene Dibromide	PDWS	0.02	ug/L	0.0061 U	0.0064 U	0.0064 U	0.5 U	---	0.0061 U	0.0098 U	0.0096 U	0.010 U	---	0.010 U	0.0097 U
Toluene	SDWS	40	ug/L	0.5 U	1 U	0.5 U	0.51 U	---	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Vinyl chloride	PDWS	1	ug/L	0.53 U	1.1 U	0.53 U	0.5 U	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes, Total	SDWS	20	ug/L	1 U	2.1 I	1 U	0.5 U	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trihalomethanes															
Bromodichloromethane	See Total THMs		ug/L	---	14	---	410	0.35 U	---	13	---	870	170	0.35 U	0.35 U
Bromoform	See Total THMs		ug/L	---	2.9	---	71	0.58 U	---	7	---	190	36	0.58 U	0.58 U
Chloroform	See Total THMs		ug/L	---	11	---	370	0.90 U	---	8.3	---	900	110	0.90 U	0.9 U
Dibromochloromethane	See Total THMs		ug/L	---	6.9	---	280	0.58 U	---	9.7	---	670	110	0.34 U	0.34 U
Total THMs	Permit	100	ug/L	---	34.8	---	1131	Not Detected	---	38	---	2630	426	Not Detected	Not Detected
Metals															
Antimony	PDWS	0.006	mg/L	---	---	---	---	---	---	---	---	0.0031 I	---	---	---
Arsenic	PDWS	0.01	mg/L	---	---	---	0.0091 I	---	---	---	---	0.025	0.02	0.034	0.012
Barium	PDWS	2	mg/L	---	---	---	0.058	---	---	---	---	0.081	---	---	---
Cobalt	GCTL	0.14	mg/L	---	---	---	0.011	---	---	---	---	0.019	---	---	---
Chromium	PDWS	0.1	mg/L	---	---	---	0.0058 I	---	---	---	---	0.0066	---	---	---
Copper	SDWS	1	mg/L	---	---	---	0.014	---	---	---	---	0.024	---	---	---
Lead	PDWS	0.015	mg/L	---	---	---	0.002 U	---	---	---	---	0.0031	---	---	---
Nickel	PDWS	0.1	mg/L	---	---	---	0.046	---	---	---	---	0.071	---	---	---
Iron	SDWS	0.3	mg/L	---	---	---	0.068 I	---	---	---	---	0.058 I	---	---	---
Zinc	SDWS	5	mg/L	---	---	---	0.020 I	---	---	---	---	0.031	---	---	---
General Chemistry															
Ammonia, Total	GCTL	2.8	mg/L	0.094	1.1	0.19	0.16	---	0.010 U	0.086	0.17	0.09	---	0.013 I	0.01
Chloride	SDWS	250	mg/L	940	1300	1500	710	---	910	1000	1200	1300	---	1000	750
Cyanide	PDWS	0.2	mg/L	---	---	---	0.014	---	---	---	---	---	---	---	---
Sodium	PDWS	160	mg/L	570	800	820	430	---	570	580	750	830	---	670	400
TDS	SDWS	500	mg/L	2400	2800	3000	1800	---	2000	2200	2900	1500	---	2500	1600
TOC	NS	NS	mg/L	---	---	---	---	---	---	---	---	---	---	140	---
General Field Parameters															
Conductivity	NS	NS	umhos/cm	3929	4907	4820	3462	2786	3772	3475	4752	4617	4167	4358	3176
Dissolved Oxygen	NS	NS	mg/L	2.96	0.93	2.78	1.34	0.3	0.72	7.01	0.75	1.22	1.42	1.36	6.01
pH	SDWS	6.5-8.5	pH Units	7.87	7.79	7.68	7.49	7.94	7.83	7.27	7.52	7.37	7.69	8.1	7.52
Oxygen Reduction Potential	NS	NS	mV	---	---	---	---	---	---	228	25.8	350.7	-1.8	164.3	40.2
Temperature, Water	NS	NS	deg C	26.55	17.35	24.83	31.5	27.9	27.9	17.1	27.2	28.5	29.4	26.2	---
Turbidity	NS	NS	NTU	1.07	1.65	5	---	6.67	4.73	1.84	7.94	3.4	2.71	4.55	---

Notes

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.).
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.).
3. GCTL = Groundwater Clean-up Target Level (62-777 F.A.C.).
4. THMs = Trihalomethanes
5. NS = No numeric standard has been set for this analyte.
6. --- = Parameter not analyzed.
7. mg/l: milligrams per liter.
8. ug/l: micrograms per liter.
9. NTU: nephelometric turbidity units.
10. Yellow Shaded values indicate parameter concentrations exceeded primary, secondary Drinking Water Standards or groundwater cleanup target levels.
11. I = Analyte detected below quantitation limits.
12. U = Analyte concentration was below the laboratory detection limit (value shown).

**Table 2. Twelve Month Summary of Leachate Effluent Monthly Analytical Results
Citrus County Central Landfill**

Parameter	Standard	MCL	Units	4/6/2010	5/12/2010	6/2/2010	7/14/2010	8/4/2010	9/15/2010	10/5/2010	11/2/2010	12/8/2010	1/5/2011	2/2/2011	3/9/2011
				1.83	1.62	3.44	1.85	1.92	3.45	2.35	2.07	1.72	3.11	6.44	17.13
CBOD	Permit	20	mg/L												
TSS	Permit	20	mg/L	1.0 U	11	2.5	1.0 U	2.5	1.5	1.5	1.0 U	2	<1	3	15.5
Nitrate	Permit	10	mg/L	0.17	2.38	0.6	4.2	1.65	6.02	1.87	1.55	5.95	0.12	2.48	0.42

Notes

1. mg/l: milligrams per liter.
2. ug/l: micrograms per liter.
3. Yellow Shaded values indicate parameter concentrations exceeded Permit MCL levels.
4. I = Analyte detected below quantitation limits.
5. U = Analyte concentration was below the laboratory detection limit (value shown).

**Table 3. One Year Summary of Monitoring Well MW-6
for Arsenic, Sodium, Chloride, and TDS Citrus County Central Landfill**

Parameter	Standard	MCL	Units	MW-6		
				1/26/2010	7/27/2010	1/19/2011
Arsenic	PDWS	10	mg/L	1.3 U	1.3 U	1.3 U
Sodium	PDWS	160	mg/L	120	100	100
Chloride	SDWS	250	mg/L	220	220	220
TDS	SDWS	500	mg/L	400	400	380

Notes

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.).
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.).
3. mg/l: milligrams per liter.
4. ug/l: micrograms per liter.
5. Yellow Shaded values indicate parameter concentrations exceeded primary or secondary Drinking Water Standards.
6. I = Analyte detected below quantitation limits.
7. U = Analyte concentration was below the laboratory detection limit (value shown).