

BOARD OF COUNTY COMMISSIONERS
Kevin Beckner
Victor D. Crist
Ken Hagan
Al Higginbotham
Lesley "Les" Miller, Jr.
Sandra L. Murman
Mark Sharpe

Office of the County Administrator
Michael S. Merrill

CHIEF ADMINISTRATIVE OFFICER
Helene Marks

CHIEF FINANCIAL ADMINISTRATOR
Bonnie M. Wise

DEPUTY COUNTY ADMINISTRATORS
Lucia E. Garsys
Sharon D. Subadan

January 9, 2013

Dept. Of Environmental Protection

JAN 15 2013

Scuthwest District

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

Re: Southeast County Landfill

Leachate Treatment Plant

Effluent Analytical Data - Fourth Quarter (October-December, 2012)

Dear Mr. Morris:

In accordance with Specific Condition E.9.b(2) of the Southeast County Landfill (SCLF) Operation Permit No. 35435-014-SO/01, the Hillsborough County Public Utilities Department (County), is pleased to provide the laboratory analytical data for the fourth quarter effluent sampling of the leachate treatment plant located at 15960 County Road 672 in Lithia, Florida.

The referenced permit requires the monthly sampling of the leachate treatment plant effluent and the recording of the plant pH values. Monthly effluent samples are collected by the County and analyzed for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), and Nitrate.

The daily pH values recorded by plant personnel during this quarterly period ranged from 7.6 - 8.1 pH units and the monthly analytical samples ranged from 7.67 - 8.29 pH units. These values represent compliance with the State of Florida Secondary Drinking Water Standard (FAC Ch. 62-550.320) for pH. County personnel collected the effluent samples from the dedicated sampling port at the treatment plant on October 2, November 7, and December 6, 2012.

All effluent samples were analyzed by our contracted laboratory, Test America, Inc. and the analytical data reports are provided herein for your technical review. No significant changes in the concentrations of any parameters were noted during this quarterly reporting period.

Mr. John Morris January 9, 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) 663-3221 or (813) 663-3222.

Sincerely,

Michael D. Townsel 1/9/2013

Senior Hydrologist

Public Utilities Department

Environmental Services

DSA/mdt Enclosures

xc:

Larry Ruiz, Public Utilities

Andrew Berry, Public Utilities

Ron Cope, EPC

G:enviro/self/leachate plant/ltp-effluent-4thqtr2012.doc

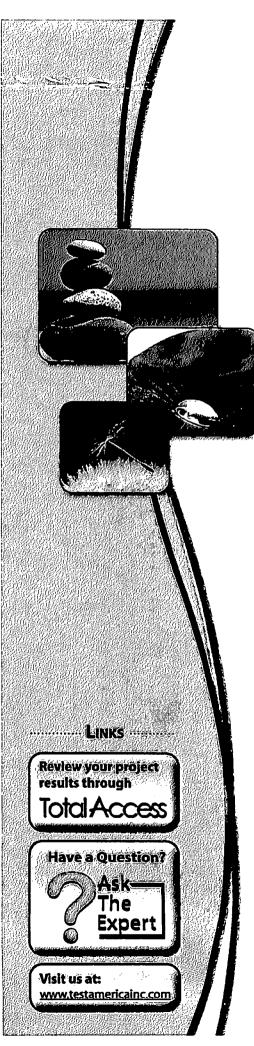
Sincerely,

David S. Adams, P.G.

) avid allary / 9/13 Environmental Manager

Public Utilities Department

Environmental Services



<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 660-50372-1 Client Project/Site: Leachate Effluent

For:

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

Attn: David Adams

Authorized for release by: 10/16/2012 4:03:24 PM

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

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

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

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



Table of Contents

Cover Page	1
	2
Sample Summary	3
	4
	5
	6
	7
	9
	12
	14
Method Summary	15
-	16
	18
Receipt Checklists	21

Sample Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

•				
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-50372-1	LEACHATE EFFLUENT	Water	10/02/12 11:40	10/02/12 14:10
660-50372-2	BLANK EQUIPMENT	Water	10/02/12 11:30	10/02/12 14:10





Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Job ID: 660-50372-1

Laboratory: TestAmerica Tampa

Narrativo

Job Narrative 660-50372-1

Comments

No additional comments.

Receipt

The samples were received on 10/2/2012 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.2° C.

General Chemistry

Method SM 5220D: The matrix spike (MS) recovery for batch 252123 was 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.

TestAmerica Job ID: 660-50372-1

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Qualifiers	
General Ch	emistry
Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
1	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
.13	Estimated value: value may not be accurate. Shike recovery or RRD outside of criteria

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
₽	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Client Sample ID: LEACHA	TE EFFLUEN	Γ				Li	ab	Sample ID:	660-50372-1
Analyto	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5100		250	250	mg/L		_	SM 2540C	Total/NA
Total Suspended Solids	14		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Chemical Oxygen Demand	530		20	6.3	mg/L	1		SM 5220D	Total/NA
Field pH	8.00				SU	1		Field Sampling	Tota!/NA
Field Temperature	31.48				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.80				mg/L	1		Field Sampling	Total/NA
Specific Conductance	6009				umhos/cm	1		Field Sampling	Total/NA
Client Sample ID: BLANK E	QUIPMENT					Li	ab	Sample ID:	660-50372-2
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Faç	D	Method	Prep Type
Chemical Oxygen Demand		1.13	20	6.3	ma/l			SM 5220D	Total/NIA

Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 10/02/12 11:40 Date Received: 10/02/12 14:10

Oxygen, Dissolved

Specific Conductance

Lab Sample ID: 660-50372-1

10/02/12 11:40

10/02/12 11:40

Matrix: Water

General Chemistry									
Analyto	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			10/02/12 20:01	1
Total Dissolved Solids	5100		250	250	mg/L			10/04/12 09:38	1
Total Suspended Solids	14		1.0	1.0	mg/L			10/05/12 06:58	1
Biochemical Oxygen Demand	12	U	12	12	mg/L			10/03/12 08:54	1
Chemical Oxygen Demand	530		20	6.3	mg/L			10/08/12 13:12	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.00				SU			10/02/12 11:40	<u>1</u>
Field Temperature	31.48				Degrees C			10/02/12 11:40	1

mg/L

umhos/cm

5.80

6009

TestAmerica Tampa 10/16/2012

Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Client Sample ID: BLANK EQUIPMENT Lab Sample ID: 660-50372-2

Date Collected: 10/02/12 11:30

Matrix: Water

Date Received: 10/02/12 14:10

-	General Chemistry									
	Analyte	Result	Qualifler	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ı	Nitrate as N	0.10	Ū	0.50	0.10	mg/L			10/02/12 20:01	1
ļ	Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			10/04/12 09:38	1
ł	Total Suspended Solids	1.0	U	1.0	1.0	mg/L			10/05/12 06:58	1
-	Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			10/03/12 08:54	1
	Chemical Oxygen Demand	11	1 J3	20	6.3	mg/L			10/08/12 13:12	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Method: 353.2 - Nitrate													
Lab Sample ID: LCS 660-129850/13 Matrix: Water									Clie	nt Sam	ple ID: Lab (Prep	Control S Type: To	•
Analysis Batch: 129850												.,,,	
•				Spike		LCS	LCS				%Roc.		
Analyte				Added		Result	Qualifier	Unit	C	%Re	c Limits		
Nitrite as N				0.500		0.502		mg/L		10	0 90.110		
Lab Sample ID: 660-50372-1 MS Matrix: Water									Client S	Sample	ID: LEACH	ATE EFF Type: To	
Analysis Batch: 129850													
	Sample	Samp	lo	Spike		MS	MS				%Rec.		
Analyte	Result	Qualif	ier	Added			Qualifier	Unit		%Re	c Limits		
Nitrite as N	0.16			0.500		0.647		mg/L		9	8 90 - 110	-	
Lab Sample ID: 660-50372-1 MSD Matrix: Water									Client S	Sample	ID: LEACH	ATE EFF	
Analysis Batch: 129850												.,,	
•	Sample	Samp	lo	Spike		MSD	MSD				%Rec.		RPD
Analyte	Result	Qualif	lier	Added		Result	Qualifier	Unit	C	%Re	c Limits	RPD	Limit
Nitrite as N	0.16			0.500		0.659		mg/L		10	90.110	2	30
Lab Sample ID: LCS 660-129911/4 Matrix: Water									Clie	nt Sam	ple ID: Lab Prep	Control S	
Analysis Batch: 129911												.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
,, ,				Spike		LCS	LCS				%Rec.		
Analyte				Added		Result	Qualifier	Unit		%Re	c Limits		
Nitrate Nitrite as N				1.00		1.01		mg/L		10	90 - 110		
- Lab Sample ID: 660-50247-A-1 MS										Clie	ent Sample I	D: Matri:	x Spike
Matrix: Water											•	Type: To	-
Analysis Batch: 129911											•	••	
•	Sample	Samp	le	Spike		MS	MS				%Rec.		
Analyte	Result	Qualit	fier	Added		Result	Qualifier	Unit		%Re	c Limits		
Nitrate Nitrite as N	0.10	U		1.00		0.908		mg/L		9	90 - 110		
- - Lab Sample ID: 660-50247-A-1 MSC)								Client	Sample	e ID: Matrix	Spike Du	uplicate
Matrix: Water										•		Type: T	
Analysis Batch: 129911													
•	Sample	Samp	ile	Spike		MSD	MSD				%Rec.		RPC
Analyte	Result	Quali	fler	Added		Result	Qualifier	Unit) %Re	c Limits	RPD	Limi
Nitrate Nitrite as N	0.10	U		1.00		0.903		mg/L		9	90 - 110	1	30
Lab Sample ID: MB 660-130174/3 Matrix: Water										Clier	nt Sample IC Preg	: Method	
Analysis Batch: 130174											·	•	
		MB	MB										
Analyte	R		Qualifier		PQL		MDL Unit		_ <u>D</u>	Prepare		lyzed	Dil Fac
Nitrate as N		0.10	U		0.50		0.10 mg/L				10/02/1	2 20:01	•
Lab Sample ID: MB 660-130233/2 Matrix: Water										Clie	nt Sample IC Prep	e: Metho Type: T	
Analysis Batch: 130233			440										
		MB											Dil Fac
Analyte	_	Anna A	Qualifier		PQL		MDL Unit		D	Prepare	.al A	lyzed	

QC Sample Results

Client: Hilisborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Lab Sample ID: MB 660-129931/1												Client S	ample ID: M	lethod	Blank
Watrix: Water													Prep Ty	pe: To	tal/NA
Analysis Batch: 129931															
			MB												
Analyte	Re		Qualifier		PQL		MDL			<u> </u>	Pi	repared	Analyze		Dil Fac
fotal Dissolved Solids		5.0	U		5.0		5.0	mg/L					10/04/12 09	9:38	1
Lab Sample ID: LCS 660-129931/2 Matrix: Water										CI	ient	Sample	ID: Lab Co		
Analysis Batch: 129931														•	
, 0.0 = 200.0 12000				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qual	lifier	Unit		D	%Rec	Limits		
otal Dissolved Solids				10000		9900			mg/L		_	99	80 - 120		
_ab Sample ID: 640-40555-M-1 DU												Clic	ent Sample Prep Ty		
Matrix: Water													Fieb is	/μθ. 10	reall in
Analysis Batch: 129931	Sample	Sam	nle			ווח	DU								RPI
Amahda	Result		-			Result		tifler	Unit		D			RPD	Limi
Analyte Total Dissolved Solids	350	Qua				336			mg/L		_		 -		- 2
Otal Dissolved Solids	330					330			myr					•	•
ethod: SM 2540D - Solids, To ab Sample ID: MB 660-129974/1		<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									Client S	Sample ID: N		
Matrix: Water Analysis Batch: 129974													Fieb i	ypa. ic	otal/N/
		МВ	мв										riep i	pe. Io	otal/N/
Analysis Batch: 129974	R		MB Qualifier		PQL		MDL	Unit		D	P	repared	Analyze		
Analysis Batch: 129974 ^{Analyte}	R		Qualifier		PQL 1.0			Unit mg/L		_ <u>D</u>	Р	repared		ed	Dil Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2	R	esult	Qualifier										Analyze	ed 6:58 entrol S	Dil Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water	R	esult	Qualifier										Analyze 10/05/12 0 e ID: Lab Co Prep Ty	ed 6:58 entrol S	Dil Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water	R	esult	Qualifier	Spike		LCS		mg/L					Analyze 10/05/12 0 a ID: Lab Co	ed 6:58 entrol S	Dil Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974	R	esult	Qualifier	Added		Result	1.0	mg/L	Unit			t Sample	Analyze 10/05/12 0 9 ID: Lab Co Prep Ty %Rec. Limits	ed 6:58 entrol S	Dil Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974	R	esult	Qualifier	•			1.0	mg/L	Unit mg/L		lient	t Sample	Analyze 10/05/12 0 9 ID: Lab Co Prep Ty %Rec.	ed 6:58 entrol S	Dil Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU	R	esult	Qualifier	Added		Result	1.0	mg/L		CI	lient D	%Rec	Analyze 10/05/12 0 9 ID: Lab Co Prep Ty %Rec. Limits	ed 6:58 Introl S ype: To	Dil Fa Sample otal/N/
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water	R	esult	Qualifier	Added		Result	1.0	mg/L		CI	lient D	%Rec	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT	ed 6:58 Introl S ype: To	Dil Fa Sample otal/N/
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water	R	1.0	Qualifier U	Added		Result 96.8	1.0	mg/L		CI	lient D	%Rec	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT	ed 6:58 Introl S ype: To	Dil Factorial Fa
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974		1.0	Qualifier U	Added		Result 96.8	LCS Qua	mg/L		CI	lient D	%Rec	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT	ed 6:58 Introl S ype: To	Dil Fac Sample otal/NA LUEN' otal/NA
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974 Analysis Batch: 129974	Sample	1.0	Qualifier U	Added		Result 96.8 DU	LCS Qua	mg/L	mg/L	CI	<u>D</u>	%Rec	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT	ed 6:58 Introl S ype: To	Dil Fa Sample otal/N/ LUEN otal/N/
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids	Sample Result	1.0	Qualifier U	Added		Pesult 96.8 DU Result	LCS Qua	mg/L	mg/L Unit	CI	<u>D</u>	%Rec	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT	ed 6:58 Introl S ype: To	Dil Fa Sample otal/N/ LUEN otal/N/
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Analyte Total Suspended Solids Analyte Total Suspended Solids Method: SM 5210B - BOD, 5-D Lab Sample ID: SCB 660-129863/2	Sample Result 14	1.0	Qualifier U	Added		Pesult 96.8 DU Result	LCS Qua	mg/L	mg/L Unit	CI	<u>D</u>	%Rec 97 ample ID	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT	ed 6:58 Introl S TO E EFFI TO 11 Method	Dil Fa Sample otal/N/ LUEN' otal/N/ RP Lim 2
Analysis Batch: 129974 Analyse Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyse Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974 Analyse Total Suspended Solids Analyse Total Suspended Solids	Sample Result 14	1.0	Qualifier U	Added		Pesult 96.8 DU Result	LCS Qua	mg/L	mg/L Unit	CI	<u>D</u>	%Rec 97 ample ID	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT Prep Ty	ed 6:58 Introl S TO E EFFI TO 11 Method	Dil Fa Sample otal/N/ LUEN' otal/N/ RP Lim 2
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Method: SM 5210B - BOD, 5-D Lab Sample ID: SCB 660-129863/2 Matrix: Water	Sample Result 14	San Qui	Qualifier U	Added		Pesult 96.8 DU Result	LCS Qua	mg/L	mg/L Unit	CI	<u>D</u>	%Rec 97 ample ID	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT Prep Ty	ed 6:58 Introl S TO E EFFI TO 11 Method	LUEN COTALINA
Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: LCS 660-129974/2 Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids Lab Sample ID: 660-50372-1 DU Matrix: Water Analysis Batch: 129974 Analyte Total Suspended Solids	Sample Rosult 14 Day	San Qua	Qualifier U	Added		Pesult 96.8 DU Result	LCS Qua	mg/L	mg/L Unit	CI	D nt Sa	%Rec 97 ample ID	Analyze 10/05/12 0 PID: Lab Co Prep Ty %Rec. Limits 80 - 120 D: LEACHAT Prep Ty	ed 6:58 Introl S INTRO	Dil Fa

Client Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Lab Sample ID: USB 660-129863/1 (
	USB										Client S	iample ID: N	Aethod	Blani
Matrix: Water												Prep Ty	ype: To	tal/N/
Analysis Batch: 129863														
		USB	USB											
Analyto	Re		Qualifier		PQL	- 1	MDL	Jnit		D I	Prepared	Analyzo	ed .	Dil Fa
Biochemical Oxygen Demand		2.0	Ü		2.0		2.0	ng/L				10/03/12 0	8:54	
Lab Sample ID: LCS 660-129863/3										Clien	it Sample	D: Lab Co	ntrol S	ampl
Matrix: Water												Prep T	ype: To	tal/N
Analysis Batch: 129863														
				Spike		LCS	LCS					%Rec.		
Analyto				Added		Result	Qualif	ier l	Jnit	D	%Rec	Limits		
Biochemical Oxygen Demand				198	-	185		- r	ng/L		93	85 - 115	-	
Lab Sample ID: 660-50370-C-1 DU											Cli	ent Sample		
Matrix: Water												Prep T	ype: To	tal/N
Analysis Batch: 129863														
	Sample		•			_	DU							RP
Analyto	Result	Qual	lifior			Result	Quali		Jnit				RPD	Lim
Biochemical Oxygen Demand	1200					1170		ſ	ng/L				1	2
lethod: SM 5220D - COD														
Matrix: Water Analysis Batch: 252123		MB	MB									Prep i	ype: To	taun
Analyto	Re	suit	Qualifier		PQL		MDL	Unit		D	Prepared	Analyz	ed	Dil Fa
Chemical Oxygen Demand		6.3	Ū		20		6.3	mg/L				10/08/12	13:12	
Lab Sample ID: LCS 680-252123/4										Oli s	nt Cample			
										Cilei	nr Sambu	e ID: Lab Co	ontrol S	amp
Matrix: Water										Cilei	iit Sampii		ontrol S ype: To	-
										Cilei	nt Sampi			-
				Spike		LCS	LCS			Cilei	nt Sampi			-
Analysis Batch: 252123				Spike Addod		LCS Result		fier !	Unit	Cilei	·	Prep T		-
Matrix: Water Analysis Batch: 252123 Analyte Chemical Oxygen Demand				•					Unit mg/L		·	Prep T %Rec.		-
Analysis Batch: 252123 Analyte				Addod		Result				<u>0</u>	%Rec 101	Prep T %Rec. Limits	ype: To	tal/N
Analysis Batch: 252123 Analyto Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS				Addod		Result				<u>0</u>	%Rec 101	Prep T %Rec. Limits 90 - 110	ype: To	tal/N
Analysis Batch: 252123 Analyto Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water				Addod		Result				<u>0</u>	%Rec 101	Prep T %Rec. Limits 90 - 110	ype: To	tal/N
Analysis Batch: 252123 Analyto Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water	Sample	Sam	nple	Addod		Result	Quali			<u>0</u>	%Rec 101	Prep T %Rec. Limits 90 - 110	ype: To	tal/N
Analysis Batch: 252123 Analyto Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water	Sample Result		•	Addod 100		Result 101	Quali			<u>0</u>	%Rec 101 at Sample	Prep T %Rec. Limits 90 - 110 D: BLANK Prep T	ype: To	tal/N
Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water Analysis Batch: 252123	Result		lifier	Added 100 Spike		Result 101 MS	Quali MS Quali	fier	mg/L	Clien	%Rec 101 at Sample	Prep T %Rec. Limits 90 - 110 D: BLANK Prep T %Rec.	ype: To	tal/N
Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water Analysis Batch: 252123 Analyte Chemical Oxygen Demand	Result	Qua	lifier	Added 100 Spike Added		Result 101 MS Result	Quali MS Quali	fier	mg/L Unit	Clien	%Rec 101 at Sample %Rec 74	Prep T %Rec. Limits 90 - 110 D: BLANK Prep T %Rec. Limits	ype: To	tal/N
Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water Analysis Batch: 252123 Analyte Chemical Oxygen Demand	Result	Qua	lifier	Added 100 Spike Added		Result 101 MS Result	Quali MS Quali	fier	mg/L Unit	Clien	%Rec 101 at Sample %Rec 74	Prep T %Rec. Limits 90 - 110 D: BLANK Prep T %Rec. Limits 90 - 110	ype: To	MEN tal/N
Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MSD	Result	Qua	lifier	Added 100 Spike Added		Result 101 MS Result	Quali MS Quali	fier	mg/L Unit	Clien	%Rec 101 at Sample %Rec 74	Prep T %Rec. Limits 90 - 110 D: BLANK Prep T %Rec. Limits 90 - 110	ype: To	MEN tal/N
Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MS Matrix: Water Analysis Batch: 252123 Analyte Chemical Oxygen Demand Lab Sample ID: 660-50372-2 MSD Matrix: Water	Result	Qua I J3	llifier	Added 100 Spike Added		MS Result	Quali MS Quali	fier	mg/L Unit	Clien	%Rec 101 at Sample %Rec 74	Prep T %Rec. Limits 90 - 110 D: BLANK Prep T %Rec. Limits 90 - 110	ype: To	MEN tal/N

Client: Hillshorough County Public Utilities Dep

Project/Site: Leachate Effluent

General Chemistry					
Analysis Batch: 12985	0				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50372-1 MS	LEACHATE EFFLUENT	Total/NA	Water	353.2	· ————
660-50372-1 MSD	LEACHATE EFFLUENT	Total/NA	Water	353.2	
LCS 660-129850/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-129850/12	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 12986	3				
Lab Sample ID	Cilent Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50370-C-1 DU	Duplicate	Total/NA	Water	SM 5210B	
660-50372-1	LEACHATE EFFLUENT	Total/NA	Water	SM 5210B	
660-50372-2	BLANK EQUIPMENT	Total/NA	Water	SM 5210B	
LCS 660-129863/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-129863/2 SCB	Method Blank	Total/NA	Water	SM 5210B	
USB 660-129863/1 USB	Method Blank	Total/NA	Water	SM 5210B	
Analysis Batch: 12991	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50247-A-1 MS	Matrix Spike	Total/NA	Water	353.2	·
660-50247-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
LCS 660-129911/4	Lab Control Sample	Total/NA	Water	353.2	
MB 660-129911/3	Method Blank	Total/NA	Water	353.2	
— Analysis Batch: 12993 [.]	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40555-M-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-50372-1	LEACHATE EFFLUENT	Total/NA	Water	SM 2540C	
660-50372-2	BLANK EQUIPMENT	Total/NA	Water	SM 2540C	
LCS 660-129931/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-129931/1	Method Blank	Total/NA	Water	SM 2540C	
Analysis Batch: 12997	4				
Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-50372-1	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-50372-1 DU	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-50372-2	BLANK EQUIPMENT	Total/NA	Water	SM 2540D	
LCS 660-129974/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-129974/1	Method Blank	Total/NA	Water	SM 2540D	
Analysis Batch: 13017	4				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50372-1	LEACHATE EFFLUENT	Total/NA	Water	353.2	
MB 660-130174/3	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 13023	3				
Lab Sample ID	Cilent Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50372-2	BLANK EQUIPMENT	Total/NA	Water	353.2	
MB 660-130233/2	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 25212	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50372-1	LEACHATE EFFLUENT	Total/NA	Water	SM 5220D	
660-50372-2	BLANK EQUIPMENT	Total/NA	Water	SM 5220D	
660-50372-2 MS	BLANK EQUIPMENT	Total/NA	Water	SM 5220D	

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

General Chemistry (Continued)

Analysis Batch: 252123 (Continued)

-	Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
İ	660-50372-2 MSD	BLANK EQUIPMENT	Total/NA	Water	SM 5220D	;
Ì	LCS 680-252123/4	Lab Control Sample	Total/NA	Water	SM 5220D	l
	MB 680-252123/3	Method Blank	Total/NA	Water	SM 5220D	

Field Service / Mobile Lab

Analysis Batch: 129867

_					
Lab Sample iD	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50372-1	LEACHATE EFFLUENT	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 10/02/12 11:40 Date Received: 10/02/12 14:10 Lab Sample ID: 660-50372-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B			129863	10/03/12 08:54	AG	TAL TAM
Total/NA	Analysis	SM 2540C		1	129931	10/04/12 09:38	то	TAL TAM
Total/NA	Analysis	SM 2540D		1	129974	10/05/12 06:58	TO	TAL TAM
Total/NA	Analysis	353.2		1	130174	10/02/12 20:01	RWF	TAL TAM
Total/NA	Analysis	SM 5220D		1	252123	10/08/12 13:12	TAR	TAL SAV
Total/NA	Analysis	Field Sampling		1	129867	10/02/12 11:40		TAL TAM

Client Sample ID: BLANK EQUIPMENT

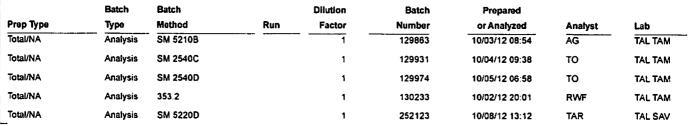
Date Collected: 10/02/12 11:30

Date Received: 10/02/12 14:10

Lab Sample ID: 660-50372-2

Matrix: Water

Lab TAL TAM 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

TestAmerica Job ID: 660-50372-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrate	MCAWW	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 5210B	BOD, 5-Day	SM	TAL TAM
SM 5220D	COD	SM	TAL SAV
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

TestAmerica Tampa 10/16/2012

Certification Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

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	NELAC	4	E84282	06-30-13	
Georgia	State Program	4	905	11-30-12	
USDA	Federal		P330-11-00177	04-20-14	

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
42LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Naska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	- 9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
SA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
3eorgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
ławaii	State Program	9	N/A	06-30-13
(linois	NELAC	5	200022	11-30-12
ndiana	State Program	5	N/A	06-30-13
owa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Centucky (UST)	State Program	4	18	02-28-13
ouisiana.	NELAC	6	30690	06-30-13
.cuisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Aassachusetts	State Program	1	M-GA006	06-30-13
dichigan	State Program	5	9925	06-30-13
	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
lebraska	State Program	7	TestAmerica-Savannah	06-30-13
lew Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	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	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-13
ennessee	State Program	4	TN02961	06-30-13
exas example 1	NELAC	6	T104704185-08-TX	11-30-12
JSDA	Federal	-	SAV 3-04	04-07-14
/ermont	State Program	1	87052	11-16-12
/irginia	NELAC	3	460161	06-14-13
Nashington	State Program	10	C1794	06-10-13

Certification Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-50372-1

Laboratory: TestAmerica Savannah (Continued)
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Rogion	Certification ID	Expiration Date
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13





660-50372

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

LEACHATE PLANT

PRECLEANED SAMPL	E CONTAIN	ERS:				DATE	
RELINOUISHED BY: CALL WA MANTE REP. OF CONTRACT LAB.						9/25/12/	1245
ACCEPTED BY:	Ac		REP. O	F SOLID WA	STE DEPT	10-1-12	2:50
						•	
LOCATION: LEACHA							
PERSONAL ENGAGED	IN SAMPL	E COLLEC'	rion: 🖂 🛪	.Balloon [ひひと		
FIELD PARAMETERS:							
BY			COND	PH 8.00	5.40	TURB	
JL 431		6-029		18.00 l	5.00	N/A =	: •
	11:40	31.48	6009	-			
		0334		nmno.			
			LE CONTA		T		
QTY CONTAINER	DESCRIPTIO	N QT	Y CONI	AINER DESCRI	[PTION	PRESERVEI	P.
	l VIAL			40 ml VIAL			
	. PLASTIC			25 ml. PLAST			
	l GLASS			125 ml GLAS			_
7 250 ml	1. GLASS			250 ml. PLASTIC 250 ml. GLASS			
500 ml	. PLASTIC			500 ml. PLASTIC			
500 m	1. GLASS			500 ml. GLASS			
	PLASTIC			LITER PLAST	TC .		
LITE	R GLASS			LITER GLASS	3		<u>_</u>
BAC	TERIAL		<u> </u>	BACTERIAL	l		
5 TOTAL NO	. OF SAMP	TER COLL	ECMED.				
101AB NO	. OF SAME	TES COLL	ecied.				•
COLORS & SHEENS:	YES N	/A		NO		COLLEC	TED
conone a billing.	**************************************	7				DATE	
						10-2-12	
		IANA	YSIS REQUE	STED:		1000	
	<u>.</u>					_	
MONTHLY LEACHATE PL	ANT PARAMET	ERS BC	D TSS	NITRATE	TDS CO	<u>D</u>	
PRESERVED SAMPLE	PRESERVED SAMPLES PH < 2.0 - SAMPLE STORAGE: COOLER & ICE TO 4.0 c						
		•					
ABOVE LISTED SAM	IPLES:		555	F SOLID WA		DATE	TIME
RELINQUISHED BY:	N/KS	<u>چر</u>	REP. C	OF SOLID WA	ASTE DEFT	10-5-/2	2:10
ACCEPTED BY:	Lunger	(duran)	E KEP. C	F CONTRACT	r TWB.	12-17	7:10
	•	-			_ •	•	
COMMENT'S:	20 40	070			5.do 1	11-07	
COMMENT D.	- FL	, , , ,			<u> </u>		

660.56372

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

RELI	LEANED SAMPLE CONTAINERS: NQUISHED BY: PTED BY:	DATE TIME 9/25/12 1245 - 10-1-12 2:50					
LOCA	TION: EQUIPMENT BLANK		SAMPLE MATRIX: WATER OT	HER MATRIX:			
	PERSONAL ENGAGED IN SAMPLE COLLECTION: DA.Balloon D/ J2						
	FIE	LD PA	RAMETERS: N/A				
	\$	SAMPLE	CONTAINERS				
QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED			
	40 ml VIAL		40 ml VIAL				
	125 ml. PLASTIC		125 ml. PLASTIC				
	125 ml GLASS		125 ml GLASS				
	250 ml. PLASTIC		250 ml. PLASTIC				
	250 ml. GLASS 500 ml. PLASTIC		250 ml. GLASS				
	500 ml. GLASS		500 ml. PLASTIC 500 ml. GLASS				
-2 -	LITER PLASTIC		LITER PLASTIC				
	LITER GLASS	 	LITER GLASS				
	BACTERIAL		BACTERIAL				
TOTAL No. OF SAMPLES COLLECTED:							
COTIC	ORS & SHEENS: YES N/A		NO	COLLECTED			
				DATE TIME			
		ANALYS	IS REQUESTED:	10-2-12 11:30			
MONTE	HLY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS CO	<u>ac</u>			
PRESERVED SAMPLES PH < 2.0 4.0 c							
ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT / 0 - 2 - / 2 2:10 ACCEPTED BY: REP. OF CONTRACT LAB. / 0 - 2 - / 2 2:10							
COMM	COMMENT'S: WO # 0070						

TestAmerica Tampa

Page

20

of 22

0/16/2012

6712 Benjamin Road Suite 100

Tampa, FL 33634

Chain of Custody Record



Phone (813) 885-7427 Fax (813) 885-7049 COC No: Camer Trecking Nots) Lab PM Sampler 660-49279.1 Robertson, Nancy Client Information (Sub Contract Lab) Page Client Contact: Page 1 of 1 nancy.rcbartson@testamericainc.com Shipping/Receiving Job # Company: 660-50372-1 **Analysis Requested** TestAmerica Laboratories, Inc. Preservation Codes: Due Date Requested: M - Hexano 10/12/2012 5102 LaRoche Avenue. B - NaOH N - None TAT Requested (days): City C - Zn Acetate O - AsNoO2 Savannah P - Na2O4S D - Natric Acid E - NaHSO4 Q - Nu2SO3 State, 7io R - Na2S2SO3 F - MaOH GA, 31404 S - H2SO4 G - Amontor PO#: Phono: T - TSP Ocdeconydrate H - Ascerbic Acrd 912-354-7858(Tel) 912-352-0165(Fax) U. Accione 1 - 120 WO# V - MCAA J - DI Water W - ph 4-5 K-EDTA Z - other (specify) Project #. L - EDA Protect Name: 66003914 SELF, Leachate Trucks, EFF Other: SSOW# Leachate, Tank Trucks Matrix Sample Type 5-1000 (C=comp. Sample Special Instructions/Note: Sample Date Time Gagrab) | BT-Tuess A-M Sample Identification - Client ID (Lab ID) Preservation Code: TESTER SHALL BE 11.40 Water х LEACHATE EFFLUENT (860-50372-1) 10/2/12 Eastern 11.30 Water X BLANK EQUIPMENT (680-50372-2) 10/2/12 Eastern Sample Disposal (A fco may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Leb Archive For Mont Possible Hazard Identification Months Unconfirmed Special Instructions/QC Requirements: Deliverable Requested: J. II, III, IV, Other (specify) Method of Shipment Time: **Empty Kit Relinquished by** Date/Time: Company Company Received by Date/fine. Reinquished by. Company Date/Time Received by Recognished by Company Date/Time Rollinguished by. 6 Confer Temperature(s) *C and Other Remarks: Custody Seal No.: Custody Seals Intact: Δ Yos Λ No

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-50372-1

Login Number: 50372

Creator: Snead, Joshua

List Number: 1

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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 lampered 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	
s 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

14

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-50372-1

Login Number: 50372

List Number: 1

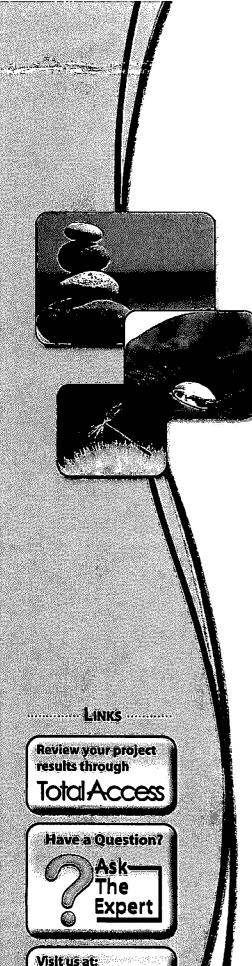
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

List Creation: 10/03/12 10:44 AM	{

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 lampered 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 <pre><6mm (1/4").</pre>	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





www.testamericainc.com

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 660-51039-1 Client Project/Site: Leachate Effluent

For:

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

Attn: David Adams

Authorized for release by: 11/19/2012 8:47:11 AM

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

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

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

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

2

Table of Contents

Cover Page	1
	2
Definitions/Glossary	3
a and a second s	4
Detection Summary	5
	6
	8
	11
	12
	13
	15
	16
	17
	19

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep

Reporting Limit or Requested Limit (Radiochemistry only)

Project/Site: Leachate Effluent

RL

TestAmerica Job ID: 660-51039-1

Qualifiers	
General Chem	ilstry
Qualifier	Qualifier Description
j	Indicates that the compound was analyzed for but not detected.
13	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
Þ	Listed under the "D" column to designate that the result is reported on a dry weight basis
KR .	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DL	Estimated Detection Limit
PA	United States Environmental Protection Agency
MDL.	Method Detection Limit
ИL	Minimum Level (Dioxin)
1D	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
ac	Quality Control
₹L	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
ref	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
ADA .	Minimum detectable activity
ADC .	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-51039-1

Job ID: 660-51039-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-51039-1

Comments

No additional comments.

Receipt

The samples were received on 11/7/2012 3:32 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

General Chemistry

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 131331 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method SM 5210B: The following sample was reported as 240U due to the dilution and analytical requirements for SM5210B.

No other analytical or quality issues were noted.

હે.

5

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Client Sample ID: BLANK	nemical Oxygen Demand 17 I 20 6.3 mg/L 1									
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Method	Prep Type		
Chemical Oxygen Demand	17	1	20	6.3	mg/L	1	SM 5220D	Total/NA		
Client Sample ID: LEACHA	TE EFFLUEN					La	ab Sample II	D: 660-51039-2		
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Method	Prep Type		

Analyte	Result	Qualifier	PQL	MOL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5700		250	250	mg/L	1	_	SM 2540C	Total/NA
Total Suspended Solids	21		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Chemical Oxygen Demand	620		20	6.3	mg/L	1		SM 5220D	Total/NA
Nitrate as N - DL	120		100	20	mg/L	200		353.2	Total/NA
Field pH	7.67				SU	1		Field Sampling	Total/NA
Field Temperature	24.83				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.78				mg/L	1		Field Sampling	Total/NA
Specific Conductance	10909				umhos/cm	1		Field Sampling	Total/NA

Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-51039-1

Client Sample ID: BLANK EQUIPMENT

Date Collected: 11/07/12 12:20 Date Received: 11/07/12 15:32 Lab Sample ID: 660-51039-1

Matrix: Water

General Chemistry Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			11/08/12 14:15	
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/09/12 09:19	1
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			11/09/12 06:27	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			11/08/12 10:46	1
Chemical Oxygen Demand	17	1	20	6.3	mg/L			11/10/12 11:14	1



Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-51039-1

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 11/07/12 12:30 Date Received: 11/07/12 15:32

Lab Sample ID: 660-51039-2

Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		250	250	mg/L			11/09/12 09:19	1
Total Suspended Solids	21		1.0	1.0	mg/L			11/09/12 06:27	1
Biochemical Oxygen Demand	240	υ	240	240	mg/L			11/08/12 10:46	10
Chemical Oxygen Demand	620		20	6.3	mg/L			11/10/12 11:14	1
General Chemistry - DL									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	120		100	20	mg/L			11/08/12 14:13	200
Method: Field Sampling - Field S	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.67				SU			11/07/12 12:30	1
Field Temperature	24.83				Degrees C			11/07/12 12:30	1
Oxygen, Dissolved	5.78				mg/L			11/07/12 12:30	1
Specific Conductance	10909				umhos/cm			11/07/12 12:30	1



TestAmerica Job 1D: 660-51039-1

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Project/Site: Leachate Effluent

Method: 353.2 - Nitrate

Matrix: Water

Lab Sample ID: 660-51017-B-1 MSD

Analysis Batch: 131312

Lab Sample ID: MB 660-131331/12 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA Analysis Batch: 131331 MB MB PQL Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac 0.50 Nitrate as N 0.10 U 0.10 mg/L 11/08/12 14:02 Lab Sample ID: LCS 660-131331/13 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 131331 Spike LCS LCS %Rec. Analyte Added %Rec Rosult Qualifier Unit D Limits Nitrate Nitrite as N 1.00 0 992 mg/L 99 90 - 110 Nitrite as N 0.500 0.519 mg/L 104 90 - 110 Lab Sample ID: 660-51017-B-1 MS Client Sample ID: Matrix Spike

Analysis Batch: 131331									•	
	Sample	Sample	Spike	MS	MS				%Roc.	
Analyte	Rosult	Qualifier	Added	Rosult	Qualifier	Unit	D	%Rec	Limits	
Nitrate Nitrite as N	0.10	U J3	1.00	0.803	J3	mg/L		80	90.110	
Nitrite as N	0.10	U	0.500	0.452	1	mg/L		90	90 - 110	

Matrix: Water Prep Type: Total/NA Analysis Batch: 131331 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Analyto Added Rosult Qualifier Unit D %Rec Limits RPD Limit Nitrate Nitrite as N 0.10 U J3 1.00 0 809 .13 90 - 110 30 mg/L 81 Nitrite as N 0.10 U 0.500 0.456 mg/L 91 90 - 110 30

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

Lab Sample ID: MB 660-131312/1

Matrix: Water

Analysis Batch: 131312

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

 Analyte
 Result
 Qualifier
 PQL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total Dissolved Solids
 5.0
 U
 5.0
 5.0
 mg/L
 11/09/12 09:19
 1

Lab Sample ID: LCS 660-131312/2

Client Sample ID: Lab Control Sample
Matrix: Water

Prep Type: Total/NA

 Spike
 LCS
 LCS
 %Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Total Dissolved Solids
 10000
 9930
 mg/L
 99
 80 - 120

Lab Sample ID: 660-51017-A-2 DU Client Sample ID: Duplicate
Matrix: Water Prep Type: Total/NA

Analysis Batch: 131312 Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit D RPD Limit Total Dissolved Solids 200 208 mg/L 20 Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Lab Sample ID: MB 660-131306/1											Client S	ample ID: Meth	od I	Blank
Matrix: Water												Prep Type:		
Analysis Batch: 131306														
-	M	B MB												
Analyte	Resu	t Qualifier		PQL		MDL	Unit		D	P	repared	Analyzed	(Dil Fac
Total Suspended Solids	1.	ō U		1.0	-	1.0	mg/L					11/09/12 06:27		1
Lab Sample ID: LCS 660-131306/2									CI	ient	Sample	ID: Lab Contro	ol Sa	ımple
Matrix: Water												Prep Type:	Tot	al/N/
Analysis Batch: 131306			Spike		ıce	LCS						%Rec.		
Analyte			Added		Result			Unit		D	%Rec	Limits		
Total Suspended Solids			100		96.0			mg/L		_	96	80 - 120		
l ah Camula ID. 660 54020 2 DH									O!!	40-	1- 15			
Lab Sample ID: 660-51039-2 DU Matrix: Water								,	Cilen	ı. 5a	iubie iD:	: LEACHATE E :Prep Type		
Analysis Batch: 131306														
	Sample Sa	mpto			DU	DU								RP
Analyte	Result Qu	alifier			Result	Qua	lifior	Unit		D		R	PD	Lim
Total Suspended Solids	21				22.8			mg/L					7	2
Lab Sample ID: SCB 660-131271/2 Matrix: Water								•			Client S	ample ID: Meth Prep Type:		
Lab Sample ID: SCB 660-131271/2 Matrix: Water	SCB	в всв						•			Client S	-		
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271	SCB sc	B SCB It Qualifier		PQL		MDL	Unit		D		Client S	-	Tot	al/N
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 ^{Analyte}	SCB SC Resu			PQL 2.0			Unit mg/L		D			Prep Type:	Tot	al/N
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand	SCB SC Resu	lt Qualifier							<u>D</u> .		repared	Prep Type:	Tot	al/N
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1	SCB SC Resu	lt Qualifier							<u>D</u> .		repared	Analyzed 11/08/12 08:21	Tot	al/N/ Dil Fa
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water	SCB SC Resu	lt Qualifier							<u>D</u> .		repared	Analyzed 11/08/12 08:21	Tot	al/N/ Dil Fa
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water	SCB SC Resu 2	lt Qualifier							D		repared	Analyzed 11/08/12 08:21	Tot	al/N/ Dil Fa
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271	SCB SC Resu 2 USB	it Qualifier				2.0			<u>D</u> .	Р	repared	Analyzed 11/08/12 08:21	Tot	Dil Fa
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271	SCB SC Resu 2 USB US Resu	tt Qualifier 0 U		2.0		2.0	mg/L		- - .	Р	repared Client S	Analyzed 11/08/12 08:21 sample ID: Meth	Tot	Dil Fa Blani al/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB		2.0		2.0	mg/L Unit		_ <u>D</u> .	Р	repared Client S	Analyzed 11/08/12 08:21 sample ID: Meth Prep Type:	Tot	al/N/ Dil Fa Blani al/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB		2.0		2.0	mg/L Unit		_ <u>D</u> .	Р	repared Client S	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21	: Tot	Blanial/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB		2.0		2.0 MDL 2.0	mg/L Unit mg/L		_ <u>D</u> .	Р	repared Client S	Analyzed 11/08/12 08:21 Sample ID: Methor Prep Type: Analyzed 11/08/12 08:21 EID: Lab Control Prep Type:	: Tot	Blanial/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB	Spike	2.0		MDL 2.0	mg/L Unit mg/L		_ <u>D</u> .	P	Client S	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 PID: Lab Contro	: Tot	Blani al/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Analysis Batch: 131271	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB	Added	2.0	Result	MDL 2.0	mg/L Unit mg/L	Unit	_ <u>D</u> .	Р	Client S repared	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 PID: Lab Contro Prep Type: %Rec. Limits	: Tot	Blanial/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB	· ·	2.0		MDL 2.0	mg/L Unit mg/L	Unit mg/L	_ <u>D</u> .	P	Client S	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 PID: Lab Contro Prep Type:	: Tot	Blani Blani al/N/
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: 660-50986-R-1 DU	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB	Added	2.0	Result	MDL 2.0	mg/L Unit mg/L		_ <u>D</u> .	P	repared Client S repared Sample	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 PID: Lab Contro Prep Type: %Rec. Limits	: Tot	al/N/ Dil Fa Blan al/N/ Dil Fa
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analyte Biochemical Oxygen Demand Lab Sample ID: 660-50986-R-1 DU Matrix: Water	SCB SC Resu 2 USB US Resu	tt Qualifier U B USB	Added	2.0	Result	MDL 2.0	mg/L Unit mg/L		_ <u>D</u> .	P	repared Client S repared Sample	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 e ID: Lab Contre Prep Type: %Rec. Limits 85 - 115	: Tot	al/N/ Dil Fa Blani al/N/ Dil Fa
Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analyte Biochemical Oxygen Demand Lab Sample ID: 660-50986-R-1 DU Matrix: Water	SCB SC Resu 2 USB US Resu 2	B USB It Qualifier U	Added	2.0	Result 180	MDL 2.0	mg/L Unit mg/L		_ <u>D</u> .	P	repared Client S repared Sample	Analyzed 11/08/12 08:21 sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 e ID: Lab Contre Prep Type: %Rec. Limits 85 - 115 ent Sample ID:	: Tot	Dil Fa
Method: SM 5210B - BOD, 5-D Lab Sample ID: SCB 660-131271/2 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: USB 660-131271/1 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: LCS 660-131271/3 Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand Lab Sample ID: 660-50986-R-1 DU Matrix: Water Analysis Batch: 131271 Analyte Biochemical Oxygen Demand	SCB SC Resu 2 USB US Resu	B USB It Qualifier U	Added	2.0	Result 180	2.0 MDL 2.0 LCS	Unit mg/L		_ <u>D</u> .	P	repared Client S repared Sample	Analyzed 11/08/12 08:21 Sample ID: Meth Prep Type: Analyzed 11/08/12 08:21 EID: Lab Contro Prep Type: %Rec. Limits 85 - 115 ent Sample ID: Prep Type	: Tot	al/NA Dil Face Blani al/NA Dil Face Blani al/NA

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Analyte

Chemical Oxygen Demand

_L 0 - D. MD 600 25504 <i>4</i> /2											Cli	ent S	ample ID: Metho	d Blank
Lab Sample ID: MB 680-255914/3 Matrix: Water											•		Prep Type:	
													Tiop type:	
Analysis Batch: 255914		MB !	мв											
Analyte			Qualifler		PQL		MDL	Unit		D	Prepa	ared	Analyzed	Dil Fac
Chemical Oxygen Demand			U	_	20			mg/L		. – –			11/10/12 11:14	
: Lab Sample ID: LCS 680-255914/	4									Clie	ent Sa	mple	ID: Lab Control	Sample
Matrix: Water	•											•	Prep Type:	
Analysis Batch: 255914														
Analysis Butom 1999 in				Spike		LCS	LCS						%Rec.	
Analyte				Added		Result	Qua	lifler	Unit		D %	Rec	Limits	
Chemical Oxygen Demand				100		105			mg/L			105	90 - 110	
Lab Sample ID: 680-84399-K-2 M	s										C	lient	Sample ID: Mat	rix Spike
Matrix: Water													Prep Type:	Total/N/
Analysis Batch: 255914														
•	Sample	Samp	le	Spike		MS	MS						%Rec.	
Analyte	Result	Qualit	fier	Added		Result	Qua	lifier	Unit		D %	Rec	Limits	_
Chemical Oxygen Demand	6.3	U		100		103			mg/L			103	90 - 110	
- Lab Sample ID: 680-84399-K-2 M	SD									Client	Sam	ple ID	: Matrix Spike [Duplicat
Matrix: Water													Prep Type:	Total/N/
Analysis Batch: 255914													,	
Analysis Batch: 255914														

Spike

Added

100

MSD MSD

105

Result Qualifler

Unit

mg/L

Sample Sample

6.3 U

Result Qualifier

RPD

Limit

30

RPD

%Rec.

Limits

90 - 110

105

Project/Site: Leachate Effluent

General Chemistry Analysis Batch: 131271 Method Prep Batch Lab Sample ID Client Sample ID Prop Type Matrix Duplicate 660-50986-R-1 DU Total/NA Water SM 5210B 660-51039-1 **BLANK EQUIPMENT** Total/NA Water SM 5210B LEACHATE EFFLUENT Total/NA Water SM 5210B 660-51039-2 LCS 660-131271/3 Lab Control Sample Total/NA Water SM 5210B SCB 660-131271/2 SCB Method Blank Total/NA Water SM 5210B USB 660-131271/1 USB Method Blank Total/NA Water SM 5210B Analysis Batch: 131306 Lab Sample ID Client Sample ID **Prep Type** Matrix Method Prep Batch 660-51039-1 **BLANK EQUIPMENT** Total/NA Water SM 2540D 660-51039-2 LEACHATE EFFLUENT Total/NA Water SM 2540D 660-51039-2 DU LEACHATE EFFLUENT Total/NA SM 2540D Water Total/NA LCS 660-131306/2 Lab Control Sample Water SM 2540D MB 660-131306/1 Method Blank Tota!/NA Water SM 2540D Analysis Batch: 131312 Prep Type Prep Batch Lab Sample ID Client Sample ID Matrix Method 660-51017-A-2 DU **Duplicate** Total/NA Water SM 2540C 660-51039-1 **BLANK EQUIPMENT** Total/NA Water SM 2540C LEACHATE EFFLUENT 660-51039-2 Total/NA Water SM 2540C LCS 660-131312/2 Lab Control Sample Total/NA Water SM 2540C MB 660-131312/1 Total/NA Method Blank Water SM 2540C Analysis Batch: 131331 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 660-51017-B-1 MS Matrix Spike Total/NA Water 353.2 660-51017-B-1 MSD Matrix Spike Duplicate Total/NA Water 353.2 660-51039-1 **BLANK EQUIPMENT** Total/NA Water 353.2 660-51039-2 - DL LEACHATE EFFLUENT Total/NA Water 353.2 LCS 660-131331/13 **Lab Control Sample** Total/NA Water 353.2 MB 660-131331/12 Method Blank Total/NA Water 353.2 Analysis Batch: 255914 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 660-51039-1 **BLANK EQUIPMENT** Total/NA Water SM 5220D 660-51039-2 **LEACHATE EFFLUENT** Total/NA Water SM 5220D 680-84399-K-2 MS Matrix Spike Total/NA Water SM 5220D 680-84399-K-2 MSD Matrix Spike Duplicate Total/NA Water SM 5220D

Field Service / Mobile Lab

Lab Control Sample

Method Blank

Analysis Batch: 131321

LCS 680-255914/4

MB 680-255914/3

-	-					
i	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	660-51039-2	LEACHATE EFFLUENT	Total/NA	Water	Field Sampling	

Total/NA

Total/NA

Water

Water

SM 5220D

SM 5220D

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Client Sample ID: BLANK EQUIPMENT

Date Collected: 11/07/12 12:20 Date Received: 11/07/12 15:32 Lab Sample ID: 660-51039-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	131271	11/08/12 10:46	ĀG	TAL TAM
Total/NA	Analysis	SM 2540D		1	131306	11/09/12 06:27	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	131312	11/09/12 09:19	то	TAL TAM
Total/NA	Analysis	353.2		1	131331	11/08/12 14:15	KW	TAL TAM
Total/NA	Analysis	SM 5220D		1	255914	11/10/12 11:14	TAR	TAL SAV

Client Sample ID: LEACHATE EFFLUENT Lab Sample ID: 660-51039-2

Date Collected: 11/07/12 12:30

Date Received: 11/07/12 15:32

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		10	131271	11/08/12 10:46	ĀĠ	TAL TAM
Total/NA	Analysis	SM 2540D		1	131306	11/09/12 06:27	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	131312	11/09/12 09:19	то	TAL TAM
Total/NA	Analysis	353.2	DL	200	131331	11/08/12 14:13	KW	TAL TAM
Total/NA	Analysis	SM 5220D		1	255914	11/10/12 11:14	TAR	TAL SAV
Total/NA	Analysis	Field Sampling		1	131321	11/07/12 12:30		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

9

Certification Summary

Client: Hillsborough County Public Utilities Dမှာ

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-51039-1

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	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	11-30-12
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	02-28-13
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
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
3eorgia	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
ławaii	State Program	9	N/A	06-30-13
llinois	NELAC	5	200022	11-30-12
ndiana	State Program	5	N/A	06-30-13
owa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
ouisiana	NELAC	6	30690	06-30-13
_ouisiana	NELAC	6	LA100015	12-31-12
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
Vebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	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	NELAC	3	68-00474	06-31-13
Puerto Rico	State Program	2	GA00006	
Rhode Island	State Program	1	LAO00244	01-01-13
South Carolina	State Program	4	98001	12-30-12
Fennessee	<u>=</u>	4	98001 TN02961	06-30-13
rennessee Texas	State Program NELAC			06-30-13
JSDA		6	T104704185-08-TX	11-30-12
	Federal		SAV 3-04	04-07-14
Vermont	State Program	1	87052	11-16-12
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13

10

Certification Summary

Client: Hillsborough County Public Utilities Den

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-51039-1

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
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Method Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: ชิชิ0-51039-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrate	MCAWW	TAL TAM
M 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
M 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
M 5210B	BOD, 5-Day	SM	TAL TAM
M 5220D	COD	SM	TAL SAV
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

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

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



Sample Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-51039-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-51039-1	BLANK EQUIPMENT	Water	11/07/12 12:20	11/07/12 15:32
660-51039-2	LEACHATE EFFLUENT	Water	11/07/12 12:30	11/07/12 15:32





660-51039

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

PRECLEANED SAMPLE CONTAINERS: RELINQUISHED BY: ACCEPTED BY:	8	REP. OF CONTRACT LAB. REP. OF SOLID WASTE DEPT	DATE TIME /0/3///> /045 - //-2-13 2:00
LOCATION: EQUIPMENT BLANK PERSONAL ENGAGED IN SAMPLE COL	LECTI	SAMPLE MATRIX: WATER OT ON: DA.Balloon D.JC	HER MATRIX:
		RAMETERS: N/A CONTAINERS	
QTY CONTAINER DESCRIPTION	OTY	CONTAINER DESCRIPTION	PRESERVED
40 ml VIAL	X	40 ml VIAL	- TRESONTED
125 ml. PLASTIC		125 ml. PLASTIC	
125 ml GLASS		125 ml GLASS	
250 ml. PLASTIC	/	250 ml. PLASTIC	
250 ml. GLASS S00 ml. PLASTIC		250 ml. GLASS 500 ml. PLASTIC	
500 ml. GLASS		500 ml. GLASS	
3 LITER PLASTIC		LITER PLASTIC	
LITER GLASS		LITER GLASS	
BACTERIAL		BACTERIAL	
COLORS & SHEENS: YESN/A		TED:	COLLECTED
	ANALYS	IS REQUESTED:	DATE TIME ((- 7-12 12-2)
MONTHLY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS CO	<u>ac</u>
PRESERVED SAMPLES PH < 2.0 4	E 5	SAMPLE STORAGE: COOLER	& ICE TO 4.0 c
ABOVE LISTED SAMPLES:		- REPOF-SOLID WASTE DEPT	DATE TIME
ACCEPTED BY:		REP. OF SOLID WASTE DEPT REP. OF CONTRACT LAB.	11-7-12 3:32
COMMENT'S: WOH			

3,3 eu-07

DATE | TIME

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

LEACHATE PLANT

PRECLEANED SAMPLE CONTAINERS:

ABOVE LISTED SAMPLES:

COMMENT'S: Woth 0071

RELINQUISHED BY:

ACCEPTED BY:

PERSONAL ENGAGED IN SAMPLE C			.Balloon		HER MATRIX:
	EMP	COND	PH 7.67	DO 5.78	TURB =
		E CONTAI			
QTY CONTAINER DESCRIPTION	QTY	CONT	AINER DESC		PRESERVED
40 ml VIAL			40 ml VI		
125 ml. PLASTIC 125 ml GLASS		1 1	25 ml. PLA		
250 ml. PLASTIC		ļ <u>-</u>	125 ml GL		
250 ml. GLASS			250 ml. GL		
500 ml. PLASTIC			00 ml. PLA		
500 ml. GLASS		<u> </u>	500 ml. GL		
3 LITER PLASTIC			LITER PLAS	TIC	
LITER GLASS			LITER GLA		
BACTERIAL			BACTERIA	L	
TOTAL No. OF SAMPLES COLORS & SHEENS: YESN/A			NO		COLLECTI DATE !
	ANALY	SIS REQUE	STED:		1-7-12
Onth ly leachate pl ant-parameters-	BOD	TSS	LT MP A MP	TDS CC	

3.3 CN-07

REP. OF SOLID WASTE DEPT. /(-7-/1 3:32 REP. OF CONTRACT LAB. //- 7-/1 3:32

DATE |

11-7-17 3:32

TIME

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-51039-1

Login Number: 51039

List Source: TestAmerica Tampa

List Number: 1 Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 <6mm (1/4").	N/A	
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

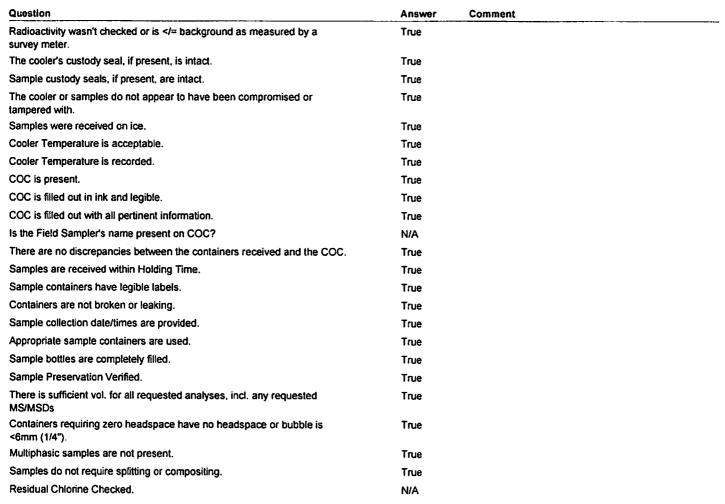
Job Number: 660-51039-1

Login Number: 51039 List Number: 1

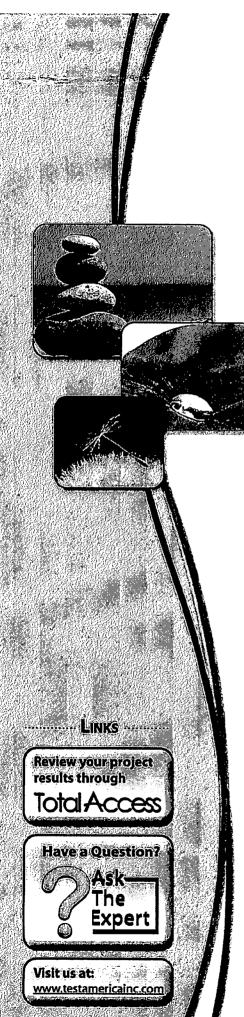
List Source: TestAmerica Savannah List C

Creator: Conner, Keaton

								,	
Çr€	at	ior	: 11	1/09/1	2 10	:29	AM	1	







<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 660-51577-1 Client Project/Site: Leachate Plant EFF

For:

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

Attn: David Adams

Authorized for release by: 12/24/2012 1:44:15 PM

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

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

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

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

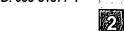


Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions/Glossary	5
Detection Summary	6
Client Sample Results	7
	9
QC Association Summary	13
Lab Chronicle	15
Method Summary	16
	17
	19
	21

Sample Summary

Client, Hillsborough County Public Utilities Den

TestAmerica Job ID: 660-51577-1

Project/Site: Leachate Plant EFF

			•		
Lab Sample ID	Cilent Sample ID	Matrix	Collected	Received	
660-51577-1	BLANK EQUIPMENT	Water	12/06/12 09:45	12/06/12 15:50	
660-51577-2	LEACHATE EFFLUENT	Water	12/06/12 09:50	12/06/12 15:50	



12/24/2012

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

Job ID: 660-51577-1			
Laboratory: TestAmerica Tampa			
Narrativo		 	
	Job Narrative		
	660-51577-1		

Comments

No additional comments.

Receipt

The samples were received on 12/6/2012 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

The temperature of the cooler at receipt was 2.5° C.

General Chemistry

No analytical or quality issues were noted.

TestAmerica Job ID: 660-51577-1

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

Qualifiers

General Chemistry

Quan	ITIEF	Qualifier Description
Ī		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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<u> </u>	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
EDA	United States Environmental Protection Agency

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

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

- Analyte	Result Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Typo
Total Disselved Solids	12	5.0	5.0	mg/L		_	SM 2540C	Total/NA

Client Sample ID: LEACHAT	lient Sample ID: LEACHATE EFFLUENT									
Analyte	Result	Qualifler	PQL	MDL	Unit	DII Fac	D	Method	Prep Type	
Nitrate as N	76		0.50	0.10	mg/L	1	_	353.2	Total/NA	
Total Dissolved Solids	5800		50	50	mg/L	1		SM 2540C	Total/NA	
Total Suspended Solids	31		1.0	1.0	mg/L	1		SM 2540D	Total/NA	
Biochemical Oxygen Demand	19		12	12	mg/L	1		SM 5210B	Total/NA	
Chemical Oxygen Demand	920		20	6.3	mg/L	1		SM 5220D	Total/NA	
Field pH	8.29				SU	1		Field Sampling	Total/NA	
Field Temperature	25.84				Degrees C	1		Field Sampling	Total/NA	
Oxygen, Dissolved	6.39				mg/L	1		Field Sampling	Total/NA	
Specific Conductance	10466				umhos/cm	1		Field Sampling	Tota!/NA	



Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

Lab Sample ID: 660-51577-1

Matrix: Water

Client Sample ID: BLANK EQUIPMENT

Date Collected: 12/06/12 09:45 Date Received: 12/06/12 15:50

General Chemistry Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			12/12/12 07:40	1
Total Dissolved Solids	12		5.0	5.0	mg/L			12/11/12 14:07	1
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			12/11/12 09:01	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			12/07/12 06:49	1
Chemical Oxygen Demand	6.3	U	20	6.3	mg/L			12/12/12 16:38	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 12/06/12 09:50 Date Received: 12/06/12 15:50 Lab Sample ID: 660-51577-2

Matrix: Water

	General Chemistry									
-	Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
i	Nitrate as N	76		0.50	0.10	mg/L			12/07/12 07:49	1
	Total Dissolved Solids	5800		50	50	mg/L			12/11/12 14:07	1
į	Total Suspended Solids	31		1.0	1.0	mg/L			12/11/12 09:01	1
!	Biochemical Oxygen Demand	19		12	12	mg/L			12/07/12 06:49	1
:	Chemical Oxygen Demand	920		20	6.3	mg/L			12/12/12 16:38	1
	 Method: Field Sampling - Field S	ampling								
1	Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
İ	Field pH	8.29				SU			12/06/12 09:50	1
	Field Temperature	25.84				Degrees C			12/06/12 09:50	1
	Oxygen, Dissolved	6.39				mg/L			12/06/12 09:50	1
	Specific Conductance	10466				umhos/cm			12/06/12 09:50	1

QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

Method: 353.2 - Nitrate

Lab Sample ID: LCS 660-132231/13 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Nitrite as N

Analysis Batch: 132231 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

0.505

0.500

Lab Sample ID: 660-51558-G-7 MS

Matrix: Water

Analysis Batch: 132231

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limite Nitrite as N 0.10 Ü 0.500 0.505 mg/L 101 90 - 110

Lab Sample ID: 660-51558-G-7 MSD

Matrix: Water

Analysis Batch: 132231

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Nitrite as N 0.10 0.500 0.511 mg/L 102 90.110 30

Lab Sample ID: MB 660-132390/12

Matrix: Water

Analysis Batch: 132390

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

mg/L

mg/L

101

90 - 110

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample

90.110

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

8

Prep Type: Total/NA

Prep Type: Total/NA

Analyte Result Cualifier POL MDL Unit Dil Fac Analyzed Nitrate as N 0.10 U 0.50 0.10 mg/L 12/12/12 07:40

Lab Sample ID: LCS 660-132390/13

Matrix: Water

Analysis Batch: 132390 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Nitrate Nitrite as N 1.00 1.10 mg/L 110 90 - 110 Nitrite as N

0.492 1

0.500

Lab Sample ID: 660-51558-G-4 MS

Matrix: Water

Analysis Batch: 132390

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added %Rec Result Qualifier Unit D Limits Nitrate Nitrite as N 0.10 Ū 1.00 0.981 mg/L 98 90.110 Nitrite as N 0.10 U 0.500 0.523 mg/L 105 90 - 110

Lab Sample ID: 660-51558-G-4 MSD

Matrix: Water

Analysis Batch: 132390

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

98

Spike Sample Sample MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Nitrate Nitrite as N 0 10 īī 1.00 0.943 mg/L 94 90 - 110 30 Nitrite as N 0.10 U 0.500 0.523 mg/L 105 90 - 110 0 30

TestAmerica Tampa

TestAmerica Job ID: 660-51577-1

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec.

Client Sample ID: LEACHATE EFFLUENT

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

RPD

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

Method: 353.2 - Nitrate (Continued)

Lab Sample ID: MB 660-132733/2

Matrix: Water

Analysis Batch: 132733

Prep Type: Total/NA

MB MB

Result Qualifier PQL **MDL** Unit Prepared Dil Fac Analyzed Nitrate as N 0.10 Ū 0.50 0.10 mg/L 12/07/12 07:49

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

Lab Sample ID: MB 660-132352/1

Matrix: Water

Analysis Batch: 132352

MR MR

Analyte Qualifier PQL Result MDL Unit Prepared **Analyzed** Dil Fac **Total Dissolved Solids** 5.0 Ū 5.0 5.0 mg/L 12/11/12 14:07

Lab Sample ID: LCS 660-132352/2

Matrix: Water

Analysis Batch: 132352

Prep Type: Total/NA Spike LCS LCS

Added Result Qualifier Unit D %Rec Limits Total Dissolved Solids 10000 9910 mg/L 80 - 120

Lab Sample ID: 660-51577-2 DU

Matrix: Water

Analysis Batch: 132352

Sample Sample DU DU Analyte Result Qualifier Result Qualifier Unit

Limit Total Dissolved Solids 5800 5840 mg/L

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-132330/1

Matrix: Water

Analysis Batch: 132330

Result Qualifier PQL MDL Unit Prepared Analyzed Dil Fac Total Suspended Solids 1.0 ū 1.0 1.0 mg/L 12/11/12 09:01

Lab Sample ID: LCS 660-132330/2

Matrix: Water

Analysis Batch: 132330

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

Client Sample ID: Method Blank

%Rec.

Spike LCS LCS Analyte Added Unit %Rec Limits **Total Suspended Solids** 100 98 4 mg/L 80 - 120

Lab Sample ID: 660-51577-2 DU

Matrix: Water

Analysis Batch: 132330

Client Sample ID: LEACHATE EFFLUENT Prep Type: Total/NA

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Total Suspended Solids 31 31.2 mg/L 20

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

Method: SM 5210B - BOD, 5-Day	<u> </u>													
- Lab Sample ID: SCB 660-132213/2 SC	СВ										(Client S	ample ID: Metho	
Matrix: Water													Prep Type: 1	Γotal/NA
Analysis Batch: 132213														
			SCB											
Analyto	Re		Qualifier		PQL			Unit		<u>D</u> _	Pr	epared	Analyzed	DII Fac
Biochemical Oxygen Demand		20	U		2.0		2.0	mg/L					12/07/12 06:46	1
Lab Sample ID: USB 660-132213/1 US	SB										1	Client S	ample ID: Metho	d Blank
Matrix: Water													Prep Type: 1	Total/NA
Analysis Batch: 132213														
•		USB	USB											
Analyte	Ri	esult	Qualifier		PQL		MDL	Unit		Ð	Pı	repared	Analyzed	Dil Fac
Biochemical Oxygen Demand		2.0	Ū	-	2.0		2.0	mg/L					12/07/12 06:46	1
Lab Sample ID: LCS 660-132213/3										CI	ient	Sample	ID: Lab Control	Sample
Matrix: Water													Prep Type:	Total/NA
Analysis Batch: 132213														
7a.yo.o 24.0 102210				Spike		LCS	LCS						%Rec.	
Analyto				Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Biochemical Oxygen Demand				198		197	-		mg/L			100	85 - 115	
Lab Sample ID: 660-51587-G-3 DU												Clic	ent Sample ID: D	uplicate
Matrix: Water													Prep Type:	Tota!/NA
Analysis Batch: 132213														
	Sample	Sam	ıple			DU	DU							RPI
Analyte	Result	Qua	lifler			Result	Qua	lifier	Unit		D		RP	D Limi
Biochemical Oxygen Demand	40	Ū				40	Ū		mg/L				N	C 20
Method: SM 5220D - COD														
Lab Sample ID: MB 680-259743/3												Client S	Sample ID: Metho	od Blani
Matrix: Water													Prep Type:	
Analysis Batch: 259743														
Analysis Butein Leer to		мв	MB											
Analyte	R	esult	Qualifier		PQL		MDL	Unit		D	Р	repared	Analyzed	Dil Fa
Chemical Oxygen Demand			U		20		6.3	mg/L				· · · · · ·	12/12/12 16:38	
Lab Sample ID: LCS 680-259743/4										C	lient	Sample	e ID: Lab Contro	l Sample
Matrix: Water												. 	Prep Type:	-
													Tiep Type.	1000111
Analysis Batch: 259743				Spike		LCS	LCS						%Rec.	
Analyte				Added		Rosult		alifier	Unit		D	%Rec	Limits	
Chemical Oxygen Demand				100	——	103		1111101	mg/L		_	103	90 - 110	
- Chairman Oxygon Demand				,,,,		,,,,								
Lab Sample ID: 660-51549-G-1 MS												Client	t Sample ID: Mat	_
Matrix: Water													Prep Type:	Total/N/
Analysis Batch: 259743														
	Sample	Sar	nple	Spike		MS	MS						%Rec.	
Analyto	Result	Qu	alifier	Added		Rosult	Qu	alifier	Unit		D	%Rec	Limits	
Chemical Oxygen Demand	44	Ī		100		103			mg/L			92	90 - 110	

QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

Method: SM 5220D - CO	D (Continued)									
– Lab Sample ID: 660-51549-0 Matrix: Water	G-1 MSD						Client Sa	ample iC	: Matrix S _I Prep T	pike Dup ype: To	
Analysis Batch: 259743											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyto	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	11	ı	100	103		mg/L		92	90.110	0	30

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

General Chemistry					
Analysis Batch: 132213					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51577-1	BLANK EQUIPMENT	Total/NA	Water	SM 5210B	
660-51577-2	LEACHATE EFFLUENT	Total/NA	Water	SM 5210B	
660-51587-G-3 DU	Duplicate	Total/NA	Water	SM 5210B	
LCS 660-132213/3	Lab Control Sample	Tota!/NA	Water	SM 5210B	
SCB 660-132213/2 SCB	Method Blank	Total/NA	Water	SM 5210B	
USB 660-132213/1 USB	Method Blank	Total/NA	Water	SM 5210B	
Analysis Batch: 132231					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
660-51558-G-7 MS	Matrix Spike	Total/NA	Water	353.2	
660-51558-G-7 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
LCS 660-132231/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-132231/12	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 132330)				
_ Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
660-51577-1	BLANK EQUIPMENT	Total/NA	Water	SM 2540D	
660-51577-2	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-51577-2 DU	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
LCS 660-132330/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-132330/1	Method Blank	Total/NA	Water	SM 2540D	
– Analysis Batch: 13235	2				
 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
660-51577-1	BLANK EQUIPMENT	Total/NA	Water	SM 2540C	
660-51577-2	LEACHATE EFFLUENT	Total/NA	Water	SM 2540C	
660-51577-2 DU	LEACHATE EFFLUENT	Total/NA	Water	SM 2540C	
LCS 660-132352/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-132352/1	Method Blank	Total/NA	Water	SM 2540C	
Analysis Batch: 13239	0				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
660-51558-G-4 MS	Matrix Spike	Total/NA	Water	353.2	
660-51558-G-4 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-51577-1	BLANK EQUIPMENT	Total/NA	Water	353.2	
LCS 660-132390/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-132390/12	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 13273	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
660-51577-2	LEACHATE EFFLUENT	Total/NA	Water	353.2	
MB 660-132733/2	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 25974	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
660-51549-G-1 MS	Matrix Spike	Total/NA	Water	SM 5220D	
660-51549-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220D	
660-51577-1	BLANK EQUIPMENT	Total/NA	Water	SM 5220D	
660-51577-2	LEACHATE EFFLUENT	Total/NA	Water	SM 5220D	
LCS 680-259743/4	Lab Control Sample	Total/NA	Water	SM 5220D	
1 77 77 7	•				

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-

Fie	id Se	rvice	/ M	ohi	ا ما	ah

Analysis Batch: 132286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	1
860-51577-2	LEACHATE EFFICIENT	Total/NA	Water	Field Sampling		T.

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

TestAmerica Job ID: 660-51577-1

Client Sample ID: BLANK EQUIPMENT

Date Collected: 12/06/12 09:45 Date Received: 12/06/12 15:50 Lab Sample ID: 660-51577-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B	·—•-	1	132213	12/07/12 06:49	ĀG	TAL TAM
Total/NA	Analysis	SM 2540D		1	132330	12/11/12 09:01	то	TAL TAM
Tota!/NA	Analysis	SM 2540C		1	132352	12/11/12 14:07	то	TAL TAM
Total/NA	Analysis	353.2		1	132390	12/12/12 07:40	RWF	TAL TAM
Total/NA	Analysis	SM 5220D		1	259743	12/12/12 16:38	TAR	TAL SAV

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 12/06/12 09:50

Date Received: 12/06/12 15:50

Lab Sample ID: 660-51577-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	132213	12/07/12 06:49	AG	TAL TAM
Total/NA	Analysis	SM 2540D		1	132330	12/11/12 09:01	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	132352	12/11/12 14:07	то	TAL TAM
Total/NA	Analysis	353.2		1	132733	12/07/12 07:49	RWF	TAL TAM
Total/NA	Analysis	SM 5220D		1	259743	12/12/12 16:38	TAR	TAL SAV
Total/NA	Analysis	Field Sampling		1	132286	12/06/12 09:50		TAL TAM



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 Plant EFF

TestAmerica Job ID: 660-51577-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrate	MCAWW	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 5210B	BOD, 5-Day	SM	TAL TAM
SM 5220D	COD	SM	TAL SAV
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

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

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 Plant EFF

TestAmerica Job ID: 660-51577-1

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	02-28-13
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
Arkansas DEQ	State Program	6	88-0692	02-01-13
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	12-31-12
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
lowa	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	12-31-12
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
Rhode Island	State Program	1	LAO00244	12-30-12
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

12

Certification Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Plant EFF

. TestAmerica Job ID: 660-51577-1

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
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13





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

RELINQUISHED BY: ACCEPTED BY:	200	REP. OF CONTRACT LAB. REP. OF SOLID WASTE DE	DATE 11ME	
LOCATION: EQUIPMENT BLA	NK	SAMPLE MATRIX: WATER	OTHER MATRIX:	
		ON: MA.Balloon Fre		
	FIELD PA	RAMETERS: N/A		
	SAMPLI	E CONTAINERS		
QTY CONTAINER DESCRIPT		CONTAINER DESCRIPTION	PRESERVED	
40 ml VIAL		40 ml VIAL		
125 ml. PLASTIC		125 ml. PLASTIC		
125 ml GLASS		125 ml GLASS		
250 ml. PLASTIC		250 ml. PLASTIC		
250 ml. GLASS 500 ml. PLASTIC		250 ml. GLASS 500 ml. PLASTIC		
500 ml. GLASS		500 ml. GLASS		
3 LITER PLASTIC		LITER PLASTIC		
LITER GLASS		LITER GLASS		
BACTERIAL		BACTERIAL		
COLORS & SHEENS: YES	N/A	NO NO	COLLECTED DATE TIME	
	ANALYS	IS REQUESTED:	•	
MONTHLY LEACHATE PLANT PARAM	ETERS BOD	TSS NITRATE TDS	COD	
PRESERVED SAMPLES PH <	2.0 yes	SAMPLE STORAGE: COOLER	R & ICE TO 4.0 c	
ABOVE LISTED SAMPLES	•		_DATE TIME	
RELINQUISHED BY:		REP. OF SOLID WASTE DE		
ACCEPTED BY:	4.61	REP. OF CONTRACT LAB.	12.6.12 3:30	
COMMENT'S: wot o	5 7/			
		\mathcal{A}	5°. CU-07	

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

PRECLEANED SAMPLE CONTAINERS;			DATE TIME					
RELINQUISHED BY: At Pull		REP. OF CONTRACT LAB.	11-27-12. 17240					
ACCEPTED BY:		REP. OF SOLID WASTE DEPT	1.12-5-12 3:00					
		•	7					
LOCATION: LEACHATE EFFLUENT SAMPLE MATRIX: WATER OTHER MATRIX:								
PERSONAL ENGAGED IN SAMPLE COLLECTION: A.Balloon								
TEROGRAD ENGAGED IN SAMPLE CO.	JUEÇII	ON: E A.Balloon IP JC	<u> </u>					
•		DADAMETERO						
<u>1</u>	TEPD	PARAMETERS:						
737 775 775								
	4P	COND PH DO	TURB					
\$ 51 19:50 125,	8-4- 1	10466 8,29 6,39	N/A =					
		•						
	SAMPLI	e containers						
QTY CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED					
40 ml VIAL		40 ml VIAL						
125 ml. PLASTIC		125 ml. PLASTIC						
125 ml GLASS	- 	125 ml GLASS						
250 ml. PLASTIC	1-2-	250 ml. PLASTIC						
250 ml. GLASS		250 ml. GLASS						
500 ml. PLASTIC		500 ml. PLASTIC						
500 ml. GLASS	1	500 ml. GLASS						
2 LITER PLASTIC		LITER PLASTIC						
LITER GLASS		LITER GLASS						
BACTERIAL		BACTERIAL						
TOTAL No. OF SAMPLES (COLLEC	TED:						
COLORS & SHEENS: YES N/A		NO	COLLECTED					
			DATE TIME					
		•	12-5-14 9:50					
	ANALYS	SIS REQUESTED:	/ 					
MONTHLY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS CO	<u>ac</u>					
DEPCEDUED CAMPIEG DU 2 0 0 57	NO.	CANADI A COMPANIA CONTRA						
PRESERVED SAMPLES PH < 2.0 765 SAMPLE STORAGE: COOLER & ICE TO 4.0 c								
·								
ABOVE LISTED SAMPLES:			_DATE TIME					
RELINQUISHED BY:		REP. OF SOLID WASTE DEPT	5.12 678 3:50					
ACCEPTED BY:		REP. OF CONTRACT LAB.	12.6-143:50					
		-						
COMMENT'S: WOT OUT!								
			•					

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-51577-1

Login Number: 51577

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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?	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
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: 660-51577-1

List Source: TestAmerica Savannah

List Creation: 12/07/12 08:46 AM

Login Number: 51577 List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

